4th African International Conference
on Industrial Engineering and Operations Management

April 5-7, 2022

Nsukka, Nigeria

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IEOM Society International, 21411 Civic Center Dr., Suite 205, Southfield, Michigan 48076, USA
Phone: 1-248-450-5660, Email: info@ieomsociety.org
Welcome to the Third African Conference on Industrial Engineering and Operations Management, Nsukka, Nigeria

To All-Conference Attendees:

On behalf of the IEOM Society International, we would like to welcome you to the 3rd African International Conference on Industrial Engineering and Operations Management, April 5-7, 2022, hosted by University of Nigeria, Nsukka. This unique international conference provides a forum for academics, researchers, and practitioners from many industries to exchange ideas and share recent developments in the fields of industrial engineering and operations management. This diverse international event provides an opportunity to collaborate and advance the theory and practice of major trends in industrial engineering and operations management. There were more than 500 papers/abstracts submitted from 40 countries. After a thorough peer-review process, more than 350 have been accepted for presentation and publication. The program includes many cutting-edge topics of industrial engineering and operations management.

This conference will address many of the issues concerning continuous improvement for quality and service. Our keynote speakers will address some of these issues:

1. Prof. Abiodun H. Adebayo, Ph.D., Vice-Chancellor, Covenant University, Ota Nigeria
2. Engr. Prof. Emeka Simon Obe, Dean, Faculty of Engineering, Professor of Electrical Engineering, University of Nigeria Nsukka, Nigeria
3. Prof. Toyin Ashiru, CEO, Tricontinental Oil, Ikeja, Lagos Nigeria
4. Engr Prof. Ojo S.I. Fayomi, Dean, College of Engineering, Bells University of Technology, Ota, Ogun State, Nigeria
5. Dr. M. Joseph Ogundu, Ph.D., MBA, Chairman/CEO, Emerald Global Consulting Inc., Farmington Hills, Michigan, USA
6. Engr Tasiu Saad Gidari-wudil FNSE, D., President, Nigeria Society of Engineers
7. Prof. Dr. Esther T. Akinlabi, Director Pan African University for Life and Earth Sciences Institute (PAULESI), Ibadan, Nigeria
8. Ing. Prof. Nana Sarfo Agyemang Derkyi, PhD, Dean, School of Engineering, Department of Energy and Petroleum Engineering, University of Energy and Natural Resources, Sunyani, Ghana
9. Engr Prof. Emenike. C. Ejigou, Director, Africa Centre of Excellence for Sustainable Power and Energy Development, University of Nigeria Nsukka
10. Professor Charles Mbohwa, Pro-Vice Chancellor Strategic Partnerships and Industrialisation, University of Zimbabwe, Harare, Zimbabwe
11. Prof. Elizabeth S. Bosire Abenga, Director, Pan African University Institute for Governance, Humanities and Social Sciences (PAUGHSS), Yaounde Cameroon
12. Prof Keith Carter, Honorary Professor, University of Leicester, United Kingdom
13. Engr. Dr Itzuchukwu F. Okafor, Director, National Centre for Energy Research and Development, University of Nigeria Nsukka, Nigeria
15. Engr Dr. Mrs. Edith Y. Ishidi, Director of Research, Business Development, Consultancy and Collaboration, Sheda Science and Technology Complex, Federal Ministry of Science, Technology and Innovation, Abuja Nigeria

The 29th IEOM Society Global Engineering Education session will feature distinguished speakers who will discuss workforce readiness and engineering education challenges and opportunities. The 28th IEOM Industry Solutions will showcase major topics including IoT, AI, data analytics, iCloud, cybersecurity, automation, digital manufacturing, MSV, and industry best practices. The 8th IEOM Global Supply Chain and Logistics will address the global logistic challenges due to the pandemic. Eight-panel sessions have been planned: Industry 4.0, Industry Solutions, Global Engineering Education, Supply Chain, Women in Industry and Academia, Presidential Panel on “The role of professional societies in serving the professions and providing opportunities for re-training and continuing education”, EFQM Model: Global and Local Perspectives and Diversity & Inclusion sponsored by Ford Motor Company.

The IEOM Society would like to express our deep appreciation to our sponsors, university partners, organization partners, exhibitors, authors, reviewers, keynote speakers, panelists, track chairs, advisors, the local committee, and the many volunteers who have given so much of their time and talent to make this unique international conference an overwhelming success.

University of Nigeria, Nsukka, the conference host, welcomes all participants. The IEOM Society Conference Planning Committee hopes you will enjoy the Istanbul conference. Lastly, our sincere best wishes to all of you for a successful and memorable event.

Enjoy the conference!
Conference Program
All times are in Nigeria Time

April 4, 2022 (Monday) - Competitions
6:00 - 7:45 am - Parallel Sessions
8:00 - 9:45 am - Parallel Sessions
10:00 - 11:45 am - Parallel Sessions
12:00 - 1:45 pm - Parallel Sessions
2:00 - 3:45 pm - Parallel Sessions
4:00 - 5:45 pm - Parallel Sessions

April 5, 2022 (Tuesday)
6:00 am - 7:45 am - Parallel Sessions
8:00 am – 09:45 am Parallel Sessions
10:00 am – 11:45 pm Parallel Sessions
11:45 am – 12:00 pm Welcome Address: Prof. Charles Arizechukwu Igwe, Vice-Chancellor, University of Nigeria, Nsukka, Nigeria
12:00 pm – 12:30 pm Keynote I: Prof. Abiodun H. Adebayo, Ph.D., Vice-Chancellor, Covenant University, Ota Nigeria
12:30 pm – 01:00 pm Keynote II: Engr. Prof. Emeka Simon Obe, Dean, Faculty of Engineering, Professor of Electrical Engineering, University of Nigeria Nsukka, Nigeria
1:00 pm – 01:30 pm Keynote III: Prof. Toyin Ashiru, CEO, Tricontinental Oil, Ikeja, Lagos Nigeria
1:30 pm – 02:00 pm Keynote IV: Engr Prof. Ojo S.I. Fayomi, Dean, College of Engineering, Bells University of Technology, Ota, Ogun State, Nigeria
2:00 pm – 02:30 pm Keynote V: Dr. M. Joseph Ogundu, Ph.D., MBA, Chairman/CEO, Emerald Global Consulting Inc., Farmington Hills, Michigan, USA
3:00 pm – 04:45 pm Parallel Sessions

March 6, 2022 (Wednesday)
6:00 am - 7:45 am - Parallel Sessions
8:00 am – 09:45 am Parallel Sessions
10:00 am – 11:45 pm Parallel Sessions
12:00 pm – 12:30 pm Keynote VI: Engr Tasiu Saad Gidari-wudil FNSE, D., President, Nigeria Society of Engineers
12:30 pm – 01:00 pm Keynote VII: Prof. Dr. Esther T. Akinlabi, Director Pan African University for Life and Earth Sciences Institute (PAULESI), Ibadan, Nigeria
1:00 pm – 01:30 pm Keynote VIII: Ing. Prof. Nana Sarfo Agyemang Derkyi, PhD, Dean, School of Engineering, Department of Energy and Petroleum Engineering, University of Energy and Natural Resources, Sunyani, Ghana
1:30 pm – 02:00 pm Keynote XIV: Engr Prof. Emenike. C. Ejiogu, Director, Africa Centre of Excellence for Sustainable Power and Energy Development, University of Nigeria Nsukka
2:00 pm – 02:30 pm Keynote X: Professor Charles Mbohwa, Ph.D., Pro-Vice Chancellor Strategic Partnerships and Industrialisation, University of Zimbabwe, Harare, Zimbabwe
3:00 pm – 04:45 pm Parallel Sessions

March 7, 2022 (Thursday)
6:00 am - 7:45 am - Parallel Sessions
8:00 am – 09:45 am Parallel Sessions
10:00 am – 11:45 pm Parallel Sessions
12:00 pm – 12:30 pm Keynote XI: Prof. Elizabeth S. Bosire Abenga, Director, Pan African University Institute for Governance, Humanities and Social Sciences (PAUGHSS), Yaounde Cameroon
12:30 pm – 01:00 pm Keynote XII: Prof Keith Carter, Honorary Professor, University of Leicester, United Kingdom
1:00 pm – 01:30 pm Keynote XIII: Engr. Dr Izuochukwu F. Okafor, Director, National Centre for Energy Research and Development, University of Nigeria Nsukka, Nigeria
1:30 pm – 02:00 pm Keynote XIV: Engr Felicia Nnenna Aguabata, PhD. FNSE, ACIArb, Nigeria Airspace Management Agency, Murtala Muhammed International Airport, Ikeja, Lagos, Nigeria
2:00 pm – 02:30 pm Keynote XV: Engr Dr. Mrs. Edith Y. Ishidi, Director of Research, Business Development, Consultancy and Collaboration, Sheda Science and Technology Complex, Federal Ministry of Science, Technology and Innovation, Abuja Nigeria
2:30 pm – 04:00 pm Parallel Sessions

4:00 – 6:00 pm, Thursday, April 7
Conference Awards Ceremony
Keynote Speakers

11:45 am – 12:00 pm Tuesday, April 5, 2022, Welcome Address from Host University

Prof. Charles Arizechukwu Igwe
Vice-Chancellor
University of Nigeria, Nsukka, Nigeria

Professor Charles A. Igwe was appointed the 15th Vice-Chancellor of the University of Nigeria, Nsukka (UNN) in June 2019. Prior to this, he was a two term Deputy Vice Chancellor (Administration), UNN (2016 – 2019). He studied Soil Science at UNN (1979–1984) where he obtained his B.Agric degree. He later obtained both MSc (1988) and PhD (1994) degrees in the same discipline in UNN. He also earned numerous other certificates and diplomas both in Agriculture and other areas of learning from institutions within and beyond Africa. These include Postgraduate Diploma in Soil Science from Agricultural University, Norway and Certificate of College on Soil Physics, from the International Centre for Theoretical Physics (ICTP), Trieste, Italy in 1993, among others. He has over thirty years of professional and administrative experience with considerable knowledge of project planning and management gained both in academia and the wider industrial sector. He was appointed Associate Dean of the Faculty of Agriculture (2006-2008) and later succeeded his principal as Dean of the same Faculty of Agriculture, UNN, (2008-2010). Beyond Deanship, he has served the University as leader of many statutory bodies, such as Director University Advancement Centre; Director, External Studies Unit; Member University Governing Council as Senate Representative, Member TETFund Committee, UNN, among others.

He is an accomplished researcher of international repute with numerous scientific publications on Soil, Soil related matters, agricultural, practices and technologies and authored a number of books to his credit. He is also editor member of numerous journals of international repute and editor of several. His current research interest is in domesticating agricultural practices and tools including climate change to improve agricultural yields in Africa and indeed tropical climes of the world, thus contributing to solving the global food security question. He has been and still is visiting researcher/professor to many universities across the world including Agricultural University of Norway, Ås; Dipartimento di Scienze Chimico-Agrarie, Università di Napoli Federico II, Italy; Université De Bourgogne, Dijon, France; and Institutfur Bodenkunde und Standortslehre, Universität Hohenheim, Stuttgart, Germany among others. He has also presented many invited academic papers and key note addresses in countless international and national fora.

Professor Igwe is equally outstanding in winning awards and academic laurels. His awards of excellence defy geographical and disciplinary boundaries. His awards come from different regions of the world and in fields like Hydrological Sciences, Engineering Technology among others. One of the most significant is the award from the Japanese Society for Promotion of Science, exemplifying him as a distinguished scientist of his time. He has also attracted funds and grants to further the growth and academic excellence in the University of Nigeria. These include, but not limited to, the European Union Research Project on “Evaluation of the Stability of Soil Organic Matter (SOM) Pools in African Ecosystems (Ethiopia and Nigeria) for the Improvement of a Sustainable Soil Management”. Scientific Equipment Donation Programme by ALEXANDER von HUMBOLDT FOUNDATION in 2001 and 2010; among others too numerous to list here.

12:00 – 12:30 pm Tuesday, April 5, Keynote I (Opening Keynote):

Prof. Abiodun H. Adebayo, Ph.D.
Vice-Chancellor
Covenant University, Ota Nigeria

Abiodun Humphrey Adebayo is an astute Professor of Biochemistry, a University Administrator and Award-winning Researcher. He is the 7th Vice-Chancellor of Covenant University – one of the leading universities in Africa driven by a vision to raise a new generation of leaders. He is a specialist in plant biochemistry and has been actively involved in the sustainable use of indigenous medicinal plants with teaching prowess in Biochemical Toxicology and Ethnopharmacological Biochemistry. Prof. Abiodun H. Adebayo’s main research focus is on phytochemical, biochemical and toxicity studies of medicinal plants; he is a recipient of the prestigious Chinese Academy of Sciences (CAS) and the Academy of Sciences for the Developing World (TWAS) Fellowship awards and has published in reputable local and international journals. His astuteness has earned him several awards and honours such as the Leading Scientist of the World 2013 by International Biographical Centre, Great Britain; High Impact Journal prize of Covenant University three times consecutively amongst several other international and national awards. Prof. Adebayo’s biography was listed and published in the 30th edition of Marquis Who’s Who in the World in the United States. He has served in various capacities in Covenant University prior to being appointed the 7th Vice Chancellor such as being the former Dean of the School of Postgraduate Studies and Chair, Committee of Deans, Deputy Chaplain and Chair of Community Development Impact Initiative Committee amongst several other academic and leadership capacities. He is happily married to Mrs. Olufunke Adebayo and their marriage is blessed with three children.

12:30 pm – 1:00 pm, Tuesday, April 5, Keynote II:

Engr. Prof. Emeka Simon Obe
Dean, Faculty of Engineering
Professor of Electrical Engineering
University of Nigeria Nsukka

Fault-Tolerant Operation of Concentrated Dual Winding Synchronous Reluctance Motor

Emeka Simon Obe received his B. Engineering, M. Engineering and Ph.D. degrees in Electrical Engineering from University of Nigeria in 1994, 1999 and 2002, respectively. Since 1999 he has been with the Department of Electrical Engineering, University of Nigeria, Nsukka where he is currently a professor. Prof. Obe has been a visiting researcher at Tennessee Technological University, USA in 2004 and 2006, at the University of the Ryukyus, Japan in 2005 and at Technische Universitat Darmstadt, Germany 2008-2009. He has held several key positions at the University of Nigeria including Director, National Center for Equipment Maintenance and Development, (2012-2014), Director, Computer
Prof. Obe is an Associate Editor of IET Electric Power Applications of UK, Associate Editor of Electric Power Components and Systems and Editor-in-Chief, Nigerian Journal of Technology. He is a fellow of AvH, Germany, Fellow of Matsumae International Foundation of Japan, Member IEEE, Member NSE and a registered corporate engineer in Nigeria. His research interests are ac machine analysis, design and drives. Prof. Obe has published over 50 articles in reputable journals and high echelon conference proceedings. He has successfully supervised over 20 of PhDs and Masters in Electrical Machines, Drives and Energy Systems.

1:00 am – 1:30 pm, Tuesday, April 5, Keynote III:

Prof. Toyin Ashiru
CEO, Tricontinental Oil
Ikeja, Lagos Nigeria

Prof. Toyin Ashiru is a distinguished Materials and Metallurgical Engineer with a career of about 40 years that spans through Nigeria, UK, USA, Canada, Saudi Arabia, Bahrain, Far East, and Asia.

Toyin Ashiru has utilized his diverse experiences in the academia, consulting, finance/investment entrepreneurship, and project management to provide technical advisory services for the enhancement of productivity in major in petrochemical, chemical processing, fertilizer, and steel manufacturing industries worldwide. He has served as expert consultant to NNPC, SHELL, CHEVRON, EXXONMOBIL, ADDAX, SAUDI ARAMCO, SABIC, SAMAREC, QATAR OIL, etc. He has also served on various technology advancement committees of the UNIDO, UNESCO and the WORLD BANK.

Toyin Ashiru is a graduate of the University of Sussex, Brighton, UK where he obtained B.Sc in Materials Science and Engineering. He concluded his Ph.D at the University of Birmingham, UK in Industrial Metallurgy in 1983. He began his career as a lecturer in Mechanical Engineering at the Universities of Lagos and Ibadan respectively before serving as Nigerian Senior Research Fellow at the International Tin Research Institute in the UK. Toyin Ashiru before his advent into the oil and gas industries in 1998 was a professor/senior research fellow at the King Fahd University of Petroleum and Minerals in Saudi Arabia.

Toyin Ashiru is the inventor of the first known instrument for in situ detection of steel cracking in sour petroleum production operations. He holds patents in the USA, UK, Brazil, Japan and of the World Intellectual Property Organization for several other inventions. He developed electroplated tin-zinc alloy coating system (USA Patent # 5,378,346, January 3, 1995). The coating is extensively used worldwide for the protection of plant, machinery, automobile, and aerospace components. Of importance was his stint as a Technical Advisor to the Saudi Basic Industries Corporation (SABIC), where he developed several innovative solutions for petrochemical, chemical processing and fertilizer plants. He is responsible for the introduction of Sponge-Jet, an environment-friendly low-dust blasting technology to Nigerian industries.

Toyin Ashiru has received many merit awards and citations worldwide in recognition of his work, including an acknowledgment in the USA as a “Professional with Extraordinary Ability” and listings in Who is Who in the World and the Dictionary of International Biography; the highly esteemed Corrosion Odyssey 2001 Award in England; Dalic’s Very Imperial Plater Award, Vitré, France in 2010; Honoree of the African Engineering Education (AEEA). He is a recipient of the prestigious Distinguished Innovator Award of the Association of Tin Producing Countries (ATPC).

Toyin Ashiru is a Fellow of the Nigeria Society of Engineers, the New York Academy of Science, the Nigeria Academy of Engineers and the Nigerian Institution of Mechanical Engineers. Prof. Ashiru is a Non-Executive Director of FCMB Group Plc, Chairman of CSL Stockbrokers Ltd and others. He is currently the Vice Chairman/CEO of Tricontinental Group

1:30 pm – 2:00 pm, Tuesday, April 5, Keynote IV:

Engr Prof. Ojo S.I. Fayomi
Dean, College of Engineering,
Bells University of Technology
Ota, Ogun State, Nigeria

Re-emphasizing the Paradigm Shift in Engineering Management for a Sustainable World

Professor Ojo Sunday Fayomi is a Full Professor of Mechanical Engineering and an internationally distinguished researcher. He is the current Dean of the College of Engineering, and Chairman, Corporate Affairs Unit, Office of the Vice Chancellor, Bells University of Technology, Ota, Nigeria. Bells University of Technology is the first Private University of Technology in Nigeria committed to the development and transformation of society through environment-friendly technologies and other innovations.

Prof Ojo Sunday Fayomi is an established proven academia and global researcher in the area of Mechanical Metallurgy of Materials and Production Technology. He is a Materials and Corrosion expert. He is well-reputed nationally and internationally in the areas of Mechanical Materials Mechanics. Obtained Bachelor’s of Engineering, (Honours) in (Mechanical Engineering) from Bells University of Technology. He bagged his Master’s and Doctoral degree in Metallurgical Engineering with Distinction (Cum Laude) from the Department of Chemical, Metallurgical and Materials Engineering, Tshwane University of Technology, Pretoria, South Africa. He has a postgraduate diploma in environmental and natural resource management from Olabisi Onabanjo University, Ago-Iwoye.

He rose to be a distinguished exceptional Professor with a massive contribution to new materials development. He is a visiting scholar to several Universities locally and internationally. He has to his credit over (500) indexed international and local peer-reviewed journals with substantial impact
Dr. M. Joseph Ogundu, Ph.D., MBA
Chairman/CEO
Emerald Global Consulting Inc.
Farmington Hills, Michigan

Dr. Joseph Ogundu is the Chairman/CEO of Emerald Global Consulting Inc., and he brings a wealth of experience in the areas of leadership, strategy development and deployment, risk management, project management, business process excellence, lean transformation, six-sigma, supply chain management, industrial engineering, manufacturing/process engineering, quality assurance and business restructuring/turnaround. Dr. Ogundu is a quality and operations excellence practitioner with expertise in solving complex operations problems and delivering results. He provides operations excellence leadership, training and coaching in the following industries: automotive, oil and gas, manufacturing, consulting, energy and healthcare. Dr. Ogundu spent the early years of his career in leadership, engineering, and senior management positions as director and executive director at Country Coach Inc, process engineering manager at DaimlerChrysler AG, senior operations leader at Chrysler Corporation, facilities engineer and project manager at Ford Motor Company as well as senior product engineer at General Motors Corporation.

Dr. Ogundu was adjunct professor, Industrial and Systems Engineering at both Lawrence Technological University, Southfield Michigan and Oakland University, Rochester Michigan, and adjunct professor of Business Administration at Kettering University, Flint Michigan. He thought courses in both undergraduate and graduate levels including courses in Lean Systems Application, Quality Assurance and Control, Total Quality Management, Operations Research and Stochastic Processes, Manufacturing Processes, Supply Chain Management, Supplier Quality, Business Statistics, Lean Six-Sigma, Production Planning and Control, Materials/Inventory Management and Operations Management.

Dr. Ogundu graduated with a Doctorate Degree in engineering and manufacturing systems and Masters in business administration from Lawrence Technological University, Master’s Degree in Manufacturing Engineering from Wayne State University and a Bachelor's Degree in Industrial Engineering from University of Tennessee, Knoxville. He served as board member of Lawrence Tech University College of Management Alumni Association, Finer Cabiniety & Woodwork Inc., Citation Plastics, LLC., River State Foundation Inc., as well as Board member of Healthcare Management department at South University Novi, Michigan Campus, Vice President of Chapter Development Institute of Industrial Engineers SE Michigan/Toledo Chapter. Dr. Ogundu is the author of the book “The Relationship between Types of Waste and Operating Performance Measures, published by Lambert Publishing company.

Wednesday, April 6, 2022

12:00 – 12:30 pm, Wednesday, April 6, Keynote VI:

Engr Tasiu Saad Gidari-wudil FNSE, D.,
President
Nigeria Society of Engineers

Engr. Tasiu Saad Gidari –Wudil (Engr. Wudil), FNSE, SMIEEE, FNIIEEE is the President of Nigeria Society of Engineers. He was educated at the Federal University of Technology (now ATBU), Bauchi State, Nigeria, where he bagged both B.Eng. and Master’s degree in Electrical and Electronics Engineering (Power & Machines). Engr. Gidari-Wudil worked with the Kano State Science and Technical Schools Management Board as Electrical Instructor at the Government Technical College, Wudil. He also served as Engineer 1 (Electrical) at the Ministry of Education, Kano before proceeding to the Bayero University Computer Centre as Computer Maintenance Engineer. He was a staff of the defunct National Electric Power Authority (NEPA). Engr. Gidari-Wudil is now an Assistant General Manager with the Nigerian Electricity Regulatory Commission.

The astute engineer had been a Fellow of the Nigerian Society of Engineers since May 2013, and a Senior Member of the Institute of Electrical and Electronics Engineers (IEEE), New York, USA. He is the Pioneer Chair of the Power & Energy Society- Institute of Electrical and Electronics Engineers, Nigeria Chapter. Engr Gidari-Wudil is a Member of the Nigerian Institute of Management; Member Association of Energy Engineers (AEE); and a Professional Member, American Society of Safety Engineers,
ASSE. Engr. Gidari-Wudil was registered with COREN in 2001 and is the first Nigerian Engineer to be Certified Regulatory Specialist. He is also Certified Public Private Partnership Specialist both from Institute of Public Private Partnership (IP3) Washington DC, and Certified Energy Manager, CEM(R). Engr. Gidari-Wudil has a great passion for the development of young engineers, and protection of the dignity of the engineering profession. He has served at various levels of the Nigeria Society of Engineers, ranging from Jos, Bauchi and Maitama Branches. He served on various boards and in committees at the NSE National level. He has been on COREN and NBTE accreditation teams as well as overwhelmingly elected Vice-President of NSE where he superintended the Engineering Bureau Service Department and Board (Engineering Manpower Bureau, Cost Indices and Infrastructure Score Card Committee, Accreditation Committee). He was the pivot of the implementation of the Computer Based Test for NSE corporate examination.

In 2017 he was re-elected as Vice President by yet another majority of the Nigerian engineers. He was assigned to supervise the Engineering Regulation, Legislation and Liaison Board/Department. His team was responsible for the reorganisation of the Young Engineers/Future Leaders in line with WFEO directives, engagement of government agencies and facilitation of collaborations. Several MoUs were either revived or initiated by ERL&L Board. The Standards and Codes Committee was very active. He held the position of the first Vice-President of NSE since 2018. During his tenure, Engr Gidari-Wudil supervised the Engineering Regulation, Legislation and Liaison Board. The face of the Nigerian Engineers has to his credit over eighteen National and International articles in the field of Electrical Engineering. He has attended so many courses in Engineering, Regulations, Public Private Partnerships, and Management. He is an alumnus of IP3, ILI, LBS and KBS. He has attended the Certified Energy Manager training in Cairo, Egypt and is a CEM compliant Engineer. Engr Gidari-Wudil is at a very advanced stage of completion of his PhD at the Abubakar Tafawa Balewa University Bauchi, Nigeria. Engr Tasiu Saad Gidari –Wudil was inaugurated as the 33rd President of the Nigeria Society of Engineers on 22nd January 2022, which is the position he holds at the moment.

12:30 – 1:00 pm, Wednesday, April 6, Keynote VII:

Prof. Dr. Esther T. Akinlabi
Director Pan African University for Life and Earth Sciences Institute (PAULESI)
Ibadan, Nigeria

Professor Esther Titilayo Akinlabi is a Full Professor of Mechanical Engineering. She was recently appointed as the Director of the Pan African University for Life and Earth Sciences Institute (PAULESI), Ibadan, Nigeria. The Pan African University of Applied Sciences (PAUAFS) is a continental initiative of the African Union Commission, Addis Ababa to reinvigorate Higher Education and Research in Africa. PAULESI represents the West African Hub of the Pan African University hosted by the University of Ibadan, Nigeria.

Prior to joining PAULESI, she had a decade of meritorious service at the Department of Mechanical Engineering Science, Faculty of Engineering and the Built Environment, University of Johannesburg (UJ), South Africa. During her period of service at UJ, she had the privilege to serve as the Head of Department of the Department of Mechanical Engineering Science and as the Vice Dean for Teaching and Learning for the Faculty. Her research interest is in the field of modern and advanced manufacturing processes – Friction stir welding and additive manufacturing. Her research in the field of laser based additive manufacturing include laser material processing and surface engineering. She also conducts research in the field of renewable energy, and biogas production from waste. She is a rated National Research Foundation (NRF) researcher in South Africa and has demonstrated excellence in all fields of endeavors.

Prof Akinlabi has supervised to completion 22 PhD candidates and 28 Masters Students. Her leadership, mentorship and research experience are enviable as she guides her team of postgraduate students through the research journey. She is a recipient of several research grants and has received many awards of recognition to her credit. She is a registered member of the Engineering Council of South Africa (ECSA), Council for the Regulation of Engineering Profession in Nigeria (COREN), South African Institution of Mechanical Engineers (SAIMechE), the Nigerian Society of Engineers (NSE) and the American Society of Mechanical Engineers (ASME), USA. Prof Akinlabi has filed two patents, edited four books, published seven books and authored/co-authored over 500 peer reviewed publications.

1:00 am – 1:30 pm, Wednesday, April 6, Keynote VIII:

Ing. Prof. Nana Sarfo Agyemang Derkyi, PhD
Dean, School of Engineering
Department of Energy and Petroleum Engineering
University of Energy and Natural Resources
Sunyani, Ghana

Ing. Prof. Nana Sarfo Agyemang Derkyi, an Associate Professor of Chemical Engineering is the Dean of School of Engineering, University of Energy and Natural Resources (UENNR), Ghana. He is a Chemist and a Chemical Engineer by education, and a Renewable Energy Technologies Expert by training and practice. He has a PhD in Chemical Engineering, Masters in Organic Chemistry, and two Bachelors, one in Chemistry, and another one in Chemical Engineering. He is a recipient of the prestigious Organization for the Prevention of Chemical Weapons (OPCW) award, and a SEED Award Winner. He was the Country Representative for Ghana during the United Nations’ International Year of Chemistry (IYC 2011). He has been actively involved in renewable energy technologies locally and internationally (Thailand, China, Israel, France, Germany, Niger, Algeria). He was part of the team that reviewed Ghana’s Bioenergy Policy, Ghana’s Energy Policy, and Renewable Energy Master Plan. He also contributed to Ghana’s Draft Science Technology and Innovation (STI) Policy and Framework of STI Bill. He was one of the two-member Ghanaian delegation on ‘Expert Consultation on Vegetable Oils of Africa for Energy’ held in Uganda.

He is involved in the organization and administration of research, and supervision of undergraduate and graduate students’ theses. He has trained plywood production managers in the formulation and application of his research team’s cassava-based adhesives in plywood production throughout Ghana. He supervised the effective production of briquette charcoal for export and local consumption. He is passionate about sustainable processes, and he is currently leading a project on Zero Emission Concepts for Urban Resilience in Selected African Countries (ZECURA). His research program is aimed at the advancement of the biochemical, thermal, thermochemical, and electrochemical engineering applied to renewable energy technologies with a strong focus on the question ‘to what extent can renewable energy be integrated in the overall energy supply systems for improved livelihoods and sustainable development?’ Another key area of his research is in the processing and utilization of natural products, as well
as the operations and optimization of chemical processes and the associated environmental consequences. Engineering design of equipment and plants is another area of his interest.

He teaches both undergraduate and graduate courses including Bioenergy Systems and Design, Biogas Technology, Process Engineering Principles, Production and Operations Management, Energy and Environmental Sustainability, Sustainability and Environmental Management Systems, and Renewable Energy. He has also developed some curricula in both graduate and undergraduate studies. He is a Visiting Professor at the Clean Energy Center of Naersuan University in Thailand where he offers training in biomass gasifier design and manufacture as well as solar water pumping systems. He is also a Visiting Professor at the West African Science Service Center on Climate Change and Adapted Land Use (WASCAL) of Abdou Moumouni University in Niger, as well as Pan Africa University of Water and Energy Science (PAWES), Algeria; University of Applied Science, Rottenburg, Germany; Policy Pathways Incorporated, Virginia, USA. He is involved in Science, Technology, Engineering and Mathematics (STEM) capacity building of teachers across Ghana.


1:30 pm – 2:00 pm, Wednesday, April 6, Keynote IX:

Engr Prof. Emenike. C. Ejiogu
Director, Africa Centre of Excellence for Sustainable Power and Energy Development
University of Nigeria Nsukka

Prof. Emenike C. Ejiogu was educated at the Department of Electrical Engineering, University of Nigeria, Nsukka for B.Eng (June 1987) and M.Eng (March 1990), before proceeding for his PhD studies in April 1990 at the Department of Electronic Engineering, National Shinshu University, Nagano-city, Japan, on Japanese Government Ministry of Education Scholarship. Prof. Ejiogu obtained his PhD (Power Devices and Energy Systems), in March 1994. He has held various positions in the academia and industrial sector, in Japan, from April 1994 till present, including, Assistant Professor, Department of Electrical & Electronic Engineering, Ritsumeikan University, Kusatsu-city, Japan (Sept 1997 – Sept 2001); Director of Technology, Energy & Environmental Inc, Osaka, Japan (2006-2008), Research Professor, Mirai Denchi/MicroSiltron Inc. Laboratory, High Tech Research Centre, Ritsumeikan University, Japan (2007-2013) and Executive Director (Industrial Technology and Innovation), Nigerian Chamber of Commerce and Industry in Japan (NCCIJ), Tokyo, Japan (2017-Present).

In June 2011, he was appointed a professor at the University of Nigeria, Nsukka. Prof. Ejiogu has since served the university in various positions, such as, the Head of Department of Electrical Engineering (August 2013-July 2016), the Chairman of the Board of the University of Nigeria Water Resources Management Services Limited (2017-2018), Board Member, University of Nigeria Lion Science Park (2018-Present). Prof. Ejiogu is the Executive Adviser to the Vice-Chancellor on Special Projects (2018-Present). He is the Principal Investigator of the Laboratory of Industrial Electronics, Power Devices and New Energy Systems (LIEPNES), University of Nigeria, Nsukka (July 2011 – Present).

In 2018, Prof. Ejiogu led a multidisciplinary group of academic and non-academic staff of the University of Nigeria to write a proposal that merited the award of a World Bank Centre of Excellence. The Centre is named the Africa Centre of Excellence for Sustainable Power and Energy Development (ACE-SPED), and Prof. Ejiogu currently serves as the Director/Centre Leader of the Centre. He is also a Visiting Professor at the Department of Electrical and Electronic Engineering Science, University of Johannesburg, South Africa (2020-present).

Prof. Ejiogu belongs to several professional organizations, such as the New York Academy of Sciences, USA (1996-Present), Institute of Electrical Engineers, Japan (IEEEJ) (1994-Present), the European Power Electronics Association (EPE) (1997-present), the Institute of Electrical and Electronic Engineers (IEEE), USA (1992-present), Nigeria Society of Engineers (NSE) (2017-present). He is a registered Engineer of the Council for Regulation of Engineering in Nigeria (COREN), since 2011.

Prof. Ejiogu has numerous publications in reputable international journals and conferences and has trained many Masters and PhD students both in Japan and in Nigeria. He also has international patents in new energy devices and systems. His areas of expertise include industrial electronics, power devices and new energy systems.

2:00 am – 2:30 pm, Wednesday, April 6, Keynote X:

Professor Charles Mbohwa, Ph.D.
Pro-Vice Chancellor Strategic Partnerships and Industrialisation
University of Zimbabwe, Harare, Zimbabwe

Professor Charles Mbohwa is a Pro-Vice Chancellor Strategic Partnerships and Industrialisation at University of Zimbabwe and an affiliated Professor in the Faculty of Engineering and the Built Environment. He is an established researcher and professor in the field of sustainability engineering and energy. He was the Chairman and Head of Department of Mechanical Engineering at the University of Zimbabwe from 1994 to 1997 and was Vice-Dean of Postgraduate Studies Research and Innovation in the Faculty of Engineering and the Built Environment at the University of Johannesburg from 2014 to 2017. He has published more than 350 papers in peer-reviewed journals and conferences, 10 book chapters and three books. He has a Scopus h-index of 11 and Google Scholar h-index of 14. Upon graduating with his BSc Honours in Mechanical Engineering from the University of Zimbabwe in 1986, he was employed as a mechanical engineer by the National Railways of Zimbabwe. He holds a Masters in Operations Management and Manufacturing Systems from University of Nottingham and completed his doctoral studies at Tokyo Metropolitan Institute of Technology in Japan. He was a Fulbright Scholar visiting the Supply Chain and Logistics Institute at the School of Industrial and Systems Engineering, Georgia Institute of Technology, a Japan Foundation Fellow, is a Fellow of the Zimbabwean Institution of Engineers and is a registered mechanical engineer with the Engineering Council of Zimbabwe. He has been a collaborator
Prof. Elizabeth S. Bosire Abenga
Director, Pan African University Institute for Governance, Humanities and Social Sciences (PAUGHSS)
Yaoundé Cameroon

Prof. Dr. Elizabeth S. B. Abenga is a Professor of Education with a PhD in Educational Communication and Technology – Educational Technology specialisation, a Masters in Educational Administration, Planning and Curriculum Development with a focus on Curriculum Development after a Bachelor of Education. In addition to this she has special certification of training in higher education leadership and management from University of Kassel, Germany and an enviable training in Management of Internationalization in Higher education from University of Hannover, Germany. She assumed office as the Director of the Pan African University for Governance, Humanities and Social Sciences (PAUGHSS), in Yaoundé, Cameroon in 2020. She joined PAUGHSS, from Kenya with experience in Higher education institution teaching and research of over 33 years, the most recent being at Masinde Muliro University of Science and Technology, where she served for over 17 years in the department of Curriculum and Instructional Technology and various administrative positions. Here she rose up the ranks through the Kenyan meritocratic system. While at Masinde Muliro University she had the privilege to serve as the Head of Department of Information and Documentation in the School of Open learning and Continuing Education, as the founding Director of International relations and linkages for the university, and acting Deputy Vice Chancellor of Academic and Student Affairs. Her research interest is in the field of application of technology in instructional design and implementation. She also has an interest in organizational learning and Internationalization which have influenced her practice and publication profile.

Prof. Abenga has a prolific portfolio of expertise in training and capacity building in her three spheres of interest (Teaching and Learning, higher education leadership and management and Internationalization) to the level of regional expert in DAAD sponsored programmes. She is an active member of professional associations such as African Network for Internationalisation of Education (ANIE), Society of Educational Research and Evaluation in Kenya (SEREK), Educational Management Society of Kenya (EMSKENYA), South Africa Comparative and History of Education Society (SACHES), Kenya DAAD Scholars Association (KDSA), African Women in Science and Engineering (AWSE) DIES-DAAD network.

Prof. Abenga has a rich repertoire of authored and co-authored peer reviewed articles, book chapters and 5 training modules and supervised as well as mentored graduate students.

Prof Keith Carter
Honorary Professor
University of Leicester
United Kingdom

Keith F. Carter is a Fellow of the Institution of Mechanical Engineers as well as being a chartered Nuclear engineer and a chartered Naval Architect. He is a director and principal consultant for Keimar Consultancy in Leicester, England. Over the last 15 years, Keith has been associated with a wide variety of engineering projects for Rolls-Royce at Derby, England, in both the nuclear marine and aerospace divisions principally specialising in structural integrity issues. He has also carried out other significant projects in a variety of fields, including the analysis of AGR graphite cores for British Energy (EDF). Dr. Carter has held the post of Visiting Design Professor within the School of Engineering at the University of Leicester in England for a number of years, bringing in considerable engineering and industrial experience to the teaching of students and to various research projects. He holds a Bachelor of Science degree in chemistry and a PhD in statistical mechanics using computer simulation, both from the Royal Holloway College at the University of London and has authored over 30 academic papers as well as numerous reports for client companies.

Engr. Dr Izuchukwu F. Okafor
Director, National Centre for Energy Research and Development
University of Nigeria Nsukka

Izuchukwu F. Okafor is the current Director of the National Centre for Energy Research and Development (NCERD), University of Nigeria Nsukka (UNN) and the Head, National Stove Eligibility Laboratory Unit of the Centre. He obtained his B. Eng. and M. Eng. in Mechanical Engineering from University of Nigeria, Nsukka, with emphasis on Energy and Power Technology and PhD at University of Pretoria, South Africa, in the Dept. of Mechanical and Aeronautical Engineering. He conducted his research work in the Clean Energy Research Group funded by Advanced Engineering Centre of Excellence, University of Pretoria, NRF, TESP, NAC, and SOLAR Hub, EEDSM Hub and CSIR. He has his expertise in: (i) Renewable energy technology: solar thermal systems design and development – concentrated solar thermal system, solar water and air heating system; numerical modelling and simulation, CFD-ANSYS fluent, etc. (ii) Energy Management and Environment: Industrial energy audit, energy efficiency programme, etc. In 2008, he was appointed a Research Fellow in the NBERD. UNN. He was the Head, Energy Mgt. and Environment Unit of the Centre and team member on the Implementation of the ECN/ECOWAS/CUBA Govt. Energy Efficient Lighting Project in UNN. He was the principal investigator in the design and development biomass
cookstoves, biomass/coal briquetting machine, biomass solid fuels optimization and production of clean biomass briquette fuel funded by NERCD, UNN. He chaired the Technical Committee on verification/validation committee, for implementation of the biomass clean cookstoves standard in Nigeria in 2017. Under the UNDP-GEF Sustainable Fuelwood Management (SFM) Project in Nigeria, he is the Team Leader on the Participatory Technology Development of Affordable and Energy-Efficient Cookstoves. He has conducted several capacity building trainings on energy-efficient biomass cookstoves design, fabrication, and characterization/performance evaluation. In 2018, he had a parallel appointment as a Senior Research Fellow in the Dept. of Mechanical Engineering, UNN, where he lectures Mechanics of Machines, and also in the World Bank Africa Centre of Excellence for Sustainable Power and Energy Development, UNN, where he lectures on Energy Conversion and Storage Processes. He supervises B. Eng. and M. Eng. degree projects, and has research publications in peer-reviewed journals and conference proceedings. He has chaired and participated conferences/workshops, HTC in Kyoto, Japan in 2014, presented his research articles at both local and international conferences. He was the Secretary-General Solar Energy Society of Nigeria and a member of World Energy Council (WEC)-Nigerian National Committee, Corporate member of Nigerian Society of Engineers (NSE), ASME and COREN Registered.

1:30 – 2:00 pm, Thursday, April 7, Keynote XIV:

Engr Felicia Nnenna Aguabata, PhD. FNSE, ACI Arb
Nigeria Airspace Management Agency
Murtala Muhammed International Airport
Ikeja, Lagos, Nigeria

Dr. Felicia Nnenna Aguabata is the Assistant General Manager Terrestrial Services at the Nigerian Airspace Management Agency (NAMA). NAMA is an Air Navigation Service Provider (ANSP) responsible for managing the Nigerian Airspace through the Provision, Installation and Maintenance of Navigational Aids, Communication Equipment and Surveillance Systems, etc. Dr. Felicia has over 18 years of experience in aviation, project management and communication engineering. She is a graduate of Computer Science & Engineering (2nd Class Upper Division), has a Master's degree in Electrical/Electronic Engineering (Communication Engineering) with distinction and holds a doctorate degree in Communication Engineering.

Felicia is a Council member of the Council for Regulation of Engineering in Nigeria (COREN), Member Technical Board of Directors of Prototype Engineering Development Institute (PEDI), Ilesha, Osun State and a Fellow of the Nigerian Society of Engineers (FNSE). She was a past Director of the Nigerian Institute for Air Traffic Electronics Association (IFATSEA) International Federation of Air Traffic Electronics Association (AFRICA Region), Member Board of Trustees Women in Aviation Nigerian Chapter and an Associate member of UK-Based Chartered Institute of Arbitrators (ACI Arb). A recipient of 2010 Women in Aviation Scholarship as well as 2007 Association of Women in Aviation Maintenance (AWAM) scholarship and featured in 2006 edition of AWAM newsletter.

Dr. Felicia Agubata is the 15th President of the Association of Professional Women Engineers of Nigeria (APWEN), from 2018 to 2019; and a passionate Dream Gap/STEM advocate. She has transversed all the six geopolitical zones in Nigeria with her “Invent It, Build It” initiative under APWEN and awarded scholarships to 81 pupils from primary to university level as well as constructing seven science and technology laboratories in seven states (primary schools) across the six geopolitical zones in Nigeria in partnership with NNPC. Some of the labs are completed and others are work in progress. She has contributed in building the capacity of STEM teachers across the six geopolitical zones in partnership with University of West of Scotland through the SHEENGINEER “Invent It, Build It” program sponsored by Royal Academy of Engineering UK, in partnership with University of West of Scotland (UWS) and collaboration with Institution of Engineering Technology (IET), UK as the 2019 GCRF African Catalyst grant awardee.

She is the recipient of APWEN Biennial Woman award 2018-219( for unparalleled contribution to women capacity development and girl-child education) and 2020-2021(f for the greatest impact on the associations achievements) . She is a recipient of Aviators Africa Tower Awards as a Change maker for year 2021 under STEM category. She is a committed professional as attested by her industry and hands on approach to problem solving. Principals and peers readily acknowledge her can-do spirit and team ethics. Felicia has an innate desire to mentor and guide young STEM students in achieving their goals. Her knack and drive for engineering solutions are compulsive. She also enjoys percolating technical knowledge within professional groups and outside. She is a devout Christian and happily married with kids.

2:00 – 2:30 pm, Thursday, April 7, Keynote XV:

Engr Dr. Mrs. Edith Y. Ishidi, FNSE, FIPE, RCOREN, MACS, MSPE, MPIN, MSLCT, MMSN
Director of Research, Business Development, Consultancy and Collaboration
Sheda Science and Technology Complex
Federal Ministry of Science, Technology and Innovation
Abuja, Nigeria

Engr. Dr. Mrs. Ishidi FNSE an indigene of Abia State, obtained her Doctor of Philosophy (Ph.D) in the year 2010 from the prestigious Ahmadu Bello University (ABU) Zaria and had a foundation degree from the revered Federal University of Technology Owerrri (UTO) in Imo state with second class (honours) upper degree and M. Eng. from the same University. Her passion driven career of human capacity development started in the year 1999 in Zaria, Kaduna State as Assistant Lecturer in the then Federal College of Chemical and Leather Technology, CHELTECH) Samaru Zaria, where she was assigned the responsibility of carrying out research and teaching of students in the field of Polymers and Polymer related programs. To these she served diligently as a Lecturer, Researcher, Examiner Officer, Students Project Officer, SIWES Coordinator, Departmental Secretary, Head of Department and Pioneer Director of Polymers and Environmental Technology Directorate of the same agency. The agency’s name was later, (in 2011) changed to the Nigerian Institute of Leather and Science Technology (NILEST). She left NILEST in December 2015 to join another sister agency called Sheda Science and Technology Complex (SHESTCO), Abuja.

SHESTCO is also a Research Institute in the Federal Ministry of Science and Technology (FMST) now Federal Ministry of Science, Technology and Innovation (FMSTI), with the core mandate of advanced research (at its highest possible level in Nigeria). During her service at NILEST, which spanned almost 2 decades, Engr. Dr. Mrs. Ishidi served in different capacities which include the following:
- Director, Polymers and Environmental Technology;
- Head of Department, Polymer Technology;
- NILEST Management Committee;
- NILEST Tenders Board;
- Chairman, NILEST Projects Implementation and Monitoring Committee (PIMC);
- Chairman, NILEST Technologically Based Projects Commissioning Committee;
- Member, NILEST Projects Planning and Procurement Committee;
- Member, NILEST Exhibition Committee;
- NILEST Workshop Facilitator for in – House Capacity Building on Entrepreneurship;
- Member, Committee on Development of Zazzau Leather Cluster Project through Public Private Partnership;
- Examination Officer in School of Chemical Technology;
- Students Project coordinator in the School of Chemical Technology;
- Member, Staff Welfare Committee as well as
- Member of many sub-committees too many to be mentioned.

Her experiences as lecturer, researcher and an administrator are evident in her list of about Forty (40) Journal publications both National and International as well as numerous students’ projects supervised over the years. Her exposure and experience as HOD and later as Director of Research have also helped her acquire the needed leadership competencies that has enabled her excelled in various responsibilities given to her at different times. This is demonstrated by the written commendation to her by the management of NILEST in 2013 and the award she received as an Ambassador of Moral and Ethics in Civil Service in 2015.

Engr. Dr Mrs. Ishidi has served NSE in the following capacities:
- Vice President in charge of Process and Electro -mechanical Board;
- National Executive Committee Member;
- Chairman, Engineering Man-power Development Committee;
- Vice Chairman, Membership Services Department;
- Vice Chairman, Engineering Regulation Liaison/Legislation Board;
- Chairman, NSE Professional Examination Committee;
- Member, Professional Development Board;
- Member, Membership Services Board;
- Associate Examiner, Category C1 Interview;
- Member NSE Onward Strategic Vision;
- Member, Women in Engineering Committee;
- Member, Engineering Bureau Services Board;
- Chairman NSE Zaria Branch;

She is a member of the following professional bodies:
- Registered Engineer, Council for the Regulation of Engineering in Nigeria. (RCOREN)
- Fellow, Nigerian Society of Engineers. (FNSE).
- Fellow, Institute of Polymer Engineers. (FIPE)
- Member, American Chemical Society, (ACS).
- Member, Society of Plastics Engineers. (SPE) UK.
- Member, Society of Leather Chemists and Technologists, UK.
- Member, Polymer Institute of Nigeria (PIN).
- Member, Material Society of Nigeria (MSN).

She has on several occasions represented the Federal Ministry of Science and Technology (FMSTI) and the country at bi – national discussions both within and outside Nigeria on Science and Technology matters. She is happily married to Mr. M.Y.N Ishidi. To the glory of God, the union is blessed with children.
Conference Committee

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Engr. Dr. Patricia N. Opena-Odili FNSE, 8th APWEN President (Association of Professional Women Engineers of Nigeria)
Engr Samuel Ayuba Ushe MNSE, The State Coordinator Standards Organization of Nigeria, Rivers/Bayelsa, Rivers State

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Global Supply Chain and Logistics Chair
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Engr Prof. Ogechukwu N. Iloanusi Head, Department of Electronic Engineering, University of Nigeria, Nsukka

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S. Neabimane, Department of Geography, University of Burundi, Bujumbura, Burundi
M. Minteh, Department of Agriculture (DoA), Ministry of Agriculture, Gambia

Artificial Intelligence
Dr. L. Razanakolona, LIAM, University Fianarantsoa, Madagascar

Automation and Control
Dr. Rajab Abdullah Hokoma, University of Tripoli, Libya
Dr. G.M. Bouba, LTI Laboratory, ESP/UCAD, Dakar, Senegal

Business Management
Dr. M. Sandada, Senior Lecturer, Graduate School of Management, University of Zimbabwe

Case Studies
Dr. G.A. Mburu Nhama, Departamento de Ciencias Técnicas, Universidad Nacional de Guinea Ecuatorial (UNGE), Malabo, Equatorial Guinea

Climate
G.-N.T. Longandjo, Faculty of Environmental Science and Engineering, Université Nouveaux Horizons, Lubumbashi, Democratic Republic Congo

Cyber Security
Dr. Sam Takavarasha Jr. Women’s University in Africa
Dr. Lemma Lessa, Assistant Professor of Information Systems at School of Information Science, Addis Ababa University (AAU), Ethiopia
Dr. Alffred Musurunwa, CIO NDBank, Zimbabwe

Computers and Computing
Joseph Shitole, Strathmore University, Kenya

Construction Management
Hossam Hassaan, University of Alexandria, Alexandria, Egypt

Data Analytics
Rym Naiset, École Mohammadia d’ingénieurs (EMI) Rabat, Morocco

Decision Sciences
Dr. Bupe Mwanza, University of Zambia

Design and STEM Workshop
Dr. Marri Lafleur, University of Madagascar
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<th>Role</th>
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<td>Dr. N. Armando</td>
<td>Universidad de la Habana, Cuba</td>
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<td>Energy</td>
<td>Dr. Alexey E. Tsvetov, Institute of Cybernetics, National University of Science and Technology, Russia</td>
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<td>Engineering Economy</td>
<td>Dr. Clarimon Georges Ikakondo, Faculté des sciences et technologies, Brazzaville, Congo</td>
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<td>Engineering Education</td>
<td>Dr. J. Kamaghe, Nelson Mandela African Institution of Science and Technology, Tanzania</td>
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<td>Industry 4.0 in African Context</td>
<td>Emmanuel Lule, University of Rwanda, Kigali, Rwanda</td>
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<td>Information Technology and Management Information Systems</td>
<td>Dr. Euchi Jale, OLID Laboratory, ISGIS, Sfax University, LR19ES21, Sfax, Tunisia and College of Business and Economics, Qassim University, Qassim, Saudi Arabia</td>
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<td>Inventory Control and Management</td>
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<td>IoT – Internet of Things</td>
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<td>Dr. N.D. Lamso, Université de Abdou Mounouni, Niamey, Niger</td>
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<tr>
<td>Information Technology and Management Information Systems</td>
<td>Dr. I. Pachoukova, Ecole Nationale Supérieure d'Ingénieurs, University of Lome, Togo</td>
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<tr>
<td>IoT – Internet of Things</td>
<td>M. M. Wielfried, Institut National Polytechnique Felix Houphouët-Boigny (INPHB), Yamoussoukro, Côte d’Ivoire</td>
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<tr>
<td>Lean and Six Sigma</td>
<td>Dr. Adebule Kolawole, Senior Lecturer, Department of Industrial and Production Engineering, University of Ibadan, Nigeria</td>
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<tr>
<td>Logistics</td>
<td>Norendre Sadki, Industrial Engineering Science, Faculty of Sciences and Technology, Morocoo, Morocco and Abdelmalek Essaadi University, Morocco</td>
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<tr>
<td>Manufacturing</td>
<td>Dr. AMM Nazmul Ahsan, Western Carolina University, Cullowhee, North Carolina, USA</td>
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<tr>
<td>Material Flow Cost Accounting (MFCA)</td>
<td>Dr. Chiwai Chattinawat, Chiang Mai University, Thailand</td>
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# Competition Committee

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<thead>
<tr>
<th>Position</th>
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<tbody>
<tr>
<td>Chair</td>
<td>Dr. Devashis Mitra, University of New Brunswick, Fredericton, Canada</td>
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<tr>
<td>Chair</td>
<td>Dr. Mohamed Essaaidi, Mohamed V University in Rabat, Morocco</td>
</tr>
<tr>
<td>Chair</td>
<td>Dr. Hamid I. Tahir, University of Sharjah, UAE</td>
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<tr>
<td>Chair</td>
<td>Dr. Sameh El-Din A-Razek, Al Ezz Dekheila Steel Co., Alexandria</td>
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<tr>
<td>Chair</td>
<td>Dr. Amine Belhadi, Industrial Engineering Research Team, Higher School</td>
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<tr>
<td>Chair</td>
<td>Dr. Umar AL-Turki, KFUPM, Saudi Arabia</td>
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<tr>
<td>Chair</td>
<td>Dr. Abul Kalam Das, University of Amsterdam</td>
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<tr>
<td>Chair</td>
<td>Dr. Ronald G. Askin, Arizona State University, USA</td>
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<td>Chair</td>
<td>Dr. Mohammed Ben-Daya, KFUPM, Saudi Arabia</td>
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<td>Chair</td>
<td>Dr. Abdalhadi Bacon, University Tun Hussein Onn Malaysia</td>
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<td>Chair</td>
<td>Dr. Najib D. Al-Tahat, The University of Jordan, Amman, Jordan</td>
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<td>Chair</td>
<td>Dr. Arun Kumar, RMIT University, Australia</td>
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<td>Chair</td>
<td>Masaru Tezuka, Hitachi Solutions East Japan, Ltd., Sendai, Japan</td>
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<tr>
<td>Chair</td>
<td>Dr. Abu Masud, Wichita State University, Kansas, USA</td>
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<tr>
<td>Chair</td>
<td>Dr. Charles Mbohwa, University of Johannesburg, South Africa</td>
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<tr>
<td>Chair</td>
<td>Dr. R. N. Osman, Universiti Utara Malaysia</td>
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# Honorary Committee

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<th>Position</th>
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<tr>
<td>Chair</td>
<td>Professor Dr. Norazman Mohd Nor, Deputy Vice Chancellor (Research</td>
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<td>and Innovation), National Defence University of Malaysia in Kuala</td>
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<td>Lumpur</td>
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<tr>
<td>Chair</td>
<td>Dr. Hamid R. Parasei, Texas A&amp;M University at College Station and</td>
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<td>Qatar</td>
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<tr>
<td>Chair</td>
<td>Dr. Ismail Tag, SVP &amp; Provost, The Petroleum Institute, Abu Dhabi,</td>
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<td>UAE</td>
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<tr>
<td>Chair</td>
<td>Dr. Noordin Mohd. Yusof, Universiti Teknologi Malaysia</td>
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# Advisory Committee

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<th>Position</th>
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<tr>
<td>Chair</td>
<td>Dr. Mohammed Abid, Ecole Mohammadia d'ingenieurs, Rabat, Morocco</td>
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<tr>
<td>Chair</td>
<td>Dr. Muhammad Abid, Gulham Ishaq Khan Ins. of Eng. Sci. &amp; Tech.,</td>
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<td>Pakistan</td>
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<tr>
<td>Chair</td>
<td>Dr. Olufemi Adetunji, University of Pretoria, South Africa</td>
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<tr>
<td>Chair</td>
<td>Dr. Umar AL-Turki, KFUPM, Saudi Arabia</td>
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<td>Chair</td>
<td>Dr. R. N. Osman, Universiti Utara Malaysia</td>
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# Global Engineering Education Committee

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
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<tbody>
<tr>
<td>Dr. Abu Masud, Boeing Global Engineering Professor, Industrial and</td>
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<tr>
<td>Manufacturing Engineering Department, Wichita State University, Kansas</td>
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<tr>
<td>USA</td>
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<tr>
<td>Dr. Hamid Parsaie, Texas A&amp;M University (College Station) and Qatar</td>
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<tr>
<td>Dr. Mukondelel Grace Kanakana, University of South Africa</td>
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<tr>
<td>Dr. Syed Ahmad Helmi Al Haddad, Program Coordinator for MSc in Industrial</td>
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<tr>
<td>Engineering and Associate Fellow, Center for Engineering Education (CEE),</td>
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<tr>
<td>Universiti Teknologi Malaysia, Skudai, Johor, Malaysia</td>
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<tr>
<td>Dr. Mehmet Savsar, Professor, Department of Industrial and Management</td>
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<tr>
<td>Systems Engineering, Kuwait University, Safat, Kuwait</td>
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<tr>
<td>Dr. Vitor M. Caldana, Professor, Dept. de Eleoetelétronica, IFSP – Instituto</td>
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<tr>
<td>Federal de São Paulo – Campus Sorocaba, SP, Brazil</td>
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<tr>
<td>Dr. Jafri Mohd Rohani, Universiti Teknologi Malaysia</td>
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<tr>
<td>Dr. Chien Chee-Ming, Associate Professor and Deputy Dean (Academic</td>
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<tr>
<td>and Research), Universiti Tun Hussein Onn Malaysia</td>
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<tr>
<td>Dr. Ilham Kissani, Faculty of Engineering &amp; Management Science, Al Akhawayn</td>
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<td>University, Ifrane, Morocco</td>
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<tr>
<td>Dr. Ho Hwi Chie, Bina Nusantarata University (Binus), Indonesia</td>
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<tr>
<td>Dr. Rosemary Seva, De La Salle University – Manila, Philippines</td>
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<tr>
<td>Dr. Jhong Yan, Professor in Industrial Engineering and Deputy Dean of</td>
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<tr>
<td>School of Mechatronics Engineering, Head of Intelligent Manufacturing</td>
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<tr>
<td>Scientific Research Team, Harbin Institute of Technology, Harbin, China</td>
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# Industry Solutions Committee

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<tbody>
<tr>
<td>Dr. Zezi Ayag, Kadir Has University, Turkey</td>
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<tr>
<td>Arnine Beihadi, Industrial Engineering Research Team, Higher School</td>
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<tr>
<td>of Technology, Safi, Cadi Ayyad University, Marrakech, Morocco</td>
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<tr>
<td>Sameh Moh. Nour El-Din Al-Razek, Al Ezeki Dekahe Steel Co., Alexandria/lighting and</td>
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<td>Egypt</td>
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<td>Abdullah Y Dhafer, Aramco, Saudi Arabia</td>
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<tr>
<td>Natasha Dzulaminan, Construction Research Institute of Malaysia</td>
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<tr>
<td>Dr. Kenichi Funaki, Hitachi, Yokohama, Japan</td>
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<tr>
<td>Dr. Adel Hejaaji, Engineering Services Management Limited, Essex, UK</td>
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<tr>
<td>Dr. Anwar Hossain, Daikin Applied, Minneapolis, Minnesota, USA</td>
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<td>Infasziulami Ibrahim, Construction Research Institute of Malaysia (CREAM)</td>
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<td>Dr. Jafri Mohd Rohani, Universiti Teknologi Malaysia</td>
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<td>and Research), Universiti Tun Hussein Onn Malaysia</td>
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<td>University, Ifrane, Morocco</td>
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<tr>
<td>Dr. Sushil K. Shetty, Wilsonart LLC, Temple, Texas, USA</td>
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<td>Masaru Tezuka, Hitachi Solutions East Japan, Ltd., Japan</td>
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# Woman in Industry and Academia (WIIA) Committee

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<tr>
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<tbody>
<tr>
<td>Resh Plaha, Crystal Quality, UK</td>
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<td>Dr. Chan Chee-Ming, Associate Professor and Deputy Dean (Academic</td>
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<tr>
<td>Dr. Mey Goh, Loughborough University, UK</td>
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<td>University, Ifrane, Morocco</td>
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<tr>
<td>Dr. Stefanie Pillai, Dean and Associate Professor, Faculty of Languages &amp;</td>
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<tr>
<td>Linguistics, University of Malaya, Kuala Lumpur, Malaysia</td>
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<tr>
<td>Dr. Fonda Sivrikaya Şenfloku, Bilgi University, Istanbul, Turkey</td>
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<tr>
<td>Dr. Adibah Shuib, Head of Strategic Planning (Monitoring), Centre for Strategic Planning, Universiti Teknologi MARA (UiTM)</td>
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<tr>
<td>Dr. Vanessa Victoire, University of Mauritius</td>
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<tr>
<td>Dr. Soumaya Yacout, Ecole Polytechnique de Montréal, Canada</td>
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# Technical Committee

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<tr>
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<tbody>
<tr>
<td>Maram Al-Shammari, Department of Statistics and Operations Research,</td>
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<tr>
<td>King Saud University, Riyadh, Saudi Arabia</td>
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<tr>
<td>Peter M. Tase, IFEEE – GEDC Secretariat</td>
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<tr>
<td>Dr. A.O. Adewumi, University of KwaZulu-Natal, South Africa</td>
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<td>Dr. Kondo H. Adjalah, Paul-Valeraine University, France</td>
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<td>Dr. Abdollah Aghaei, K.N. Toosi University of Technology, Iran</td>
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IEOM Nigeria Conference

April 5-7, 2022

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Nabid Salehin – Assistant Program Manager
Roshna Ahmed Shipa – Assistant Marketing Manager
Vishesh Mahendrabhai Joshi, MSIE Student, LTU
Sai Abhijith Medavaranap, MSIE Student, LTU
Karthik Dhandapani, MSIE Student, LTU
DISTINGUISHED SPEAKERS

Tuesday (April 5, 2022)

Session I: Global Engineering Education
Session Chair:
8:00 – 9:45 am (Tuesday, April 5) – Virtual Room 1

8:00 – 8:20 am (Tuesday, April 5)

Dr. Musa-Olokuta, Adekunle Ibrahim
B.Eng (EKSU); M.Eng, PhD (FUNAAB); MNSE, MNlipes, FNI MechE, COREN Regd, FMA, FIPMD, PMP
Mechanical & Industrial Engineer
Specialised on Ergonomics, Human Factor Engineering, Musculoskeletal Disorder and Anthropometric
Department of Mechanical Engineering
Olabisi Onabanjo University
PMB 2002 Ago Iwoye,
Ibogun Campus, Ogun State, Nigeria

Engr. Dr. Adekunle Ibrahim MUSA a lecturer and the immediate past Head of the Department of Mechanical Engineering of the Moshood Abiola Polytechnic, Abeokuta, Nigeria. He obtained a B.Eng (Hons) degree in Mechanical Engineering from the Ekiti State University, Ado Ekiti, Nigeria (formerly University of Ado-Ekiti and Ondo State University, Ado – Ekiti respectively) in 1997; M.Eng (Mechanical) and PhD (Industrial) degree at the Federal University of Agriculture, Abeokuta, Nigeria in 2011 and 2016 respectively. His research interests are in the areas of Ergonomics and Human Factors, Mechatronics, Safety and Environmental Engineering. He has published a number of articles in reputable national and off – shore journals and attended conferences both locally and outside the shore of Nigeria. Engr.Dr Adekunle Musa is a member of notable professional bodies which includes Council for the Regulation of Engineering in Nigeria (COREN), International Association of Engineers (IAENG), Nigerian Society of Engineers (NSE) and Fellow of the Nigerian Institution of Mechanical Engineers (FNIMechE) respectively. He has eight years (8) of practical experience having worked as a Mechanical Engineer in the Works and Services Department of Federal University of Agriculture Abeokuta Nigeria (FUNAAB) and over eleven (11) years of teaching, research and administrative experience in Nigerian Polytechnic.

8:20 – 8:40 am (Tuesday, April 5)

Dr. Okokpujie Imhade Princess
Senior Lecturer/Researcher
Mechanical and Mechatronics Engineering Department
Afe Babalola University
Ado Ekiti State, Nigeria

Dr. Okokpujie Imhade Princess MNSE, MNlimes, FNIMechE is a senior lecturer/researcher in the Mechanical and Mechatronics Engineering Department, Afe Babalola University, Ado Ekiti State, Nigeria. She is the author of over one hundred and thirty (130) scholarly scientific papers, in which ninety-seven (97) are Scopus indexed. Dr. Okokpujie is the former Chief Editor of Covenant Journal of Engineering Technology (CJET). She is one of the top-rated researchers in her institution. Dr. Okokpujie has won numerous awards for her intellectual sagacity, including Covenant University Chancellor’s Exceptional Researcher of the year (won twice, 2018 and 2019 successively). Her research areas are Design and Production, Advanced Manufacturing such as Machining, Tool Wear, Vibration, Nano-lubricants, Energy Systems, Mathematical Modeling, Optimization, Artificial Intelligence, Mechatronics, and Multi-disciplinary Research. Recently, she was awarded the Global Excellence Stature Fellowship Grant Industry 4.0 2021 for advanced research at the University of Johannesburg. Dr. Okokpujie is a registered Engineer with the Council for the Regulation of Engineering in Nigeria (COREN), a Corporate Member of the Nigeria Society of Engineers (MNSE), Chairman Ota chapter, and National Technical Secretary of the Association of Professional Women Engineers of Nigeria (APWEN) among other professional affiliations. Finally, Dr. I. P. Okokpujie, takes time out to play Badminton. She is happily married and blessed with beautiful children. She is very passionate about the Girl Child’s Education, committed to women development initiative, and offers quality mentorship to Young Researchers and Engineers.

9:00 – 9:20 am (Tuesday, April 5)

Dr. Shamsuddin Ahmed
Professor Shamsuddin Ahmed PhD (UM), MEng (AIT), BSc Eng (BUET), PgDHRM, CEng(UK), FIEB(Life), MIET(UK), Department of Mechanical and Production Engineering
Islamic University of Technology (IUT), Dhaka Bangladesh (an organ of OIC)

Former Assoc. Professor, University of Malaya (UM) Ranked QS59, Kuala Lumpur, Malaysia (1997-2015). Supervised one postdoc candidate, 13 PhD and 18 Masters. Currently, involved with several Universities at home and abroad and several journals in different capacities.

Competency-Based Human Resources Administration in Engineering Education under Global Demand

9:20 – 9:40 am (Tuesday, April 5)
Falade Funso Alphonsus is a Nigerian and a Professor of civil engineering at University of Lagos, Nigeria. He earned Diploma in Quantity Surveying at Yaba College of Technology, Nigeria, in 1978. He completed his M.Sc (Civil Engineering) at the Moscow Institute of Civil Engineering in the USSR in 1984 and obtained PhD in Civil Engineering, from University of Lagos in 1998. Prof. Falade has authored over 70 articles on innovative construction materials and engineering education published in locally and internationally reputable journals as well as in proceedings of learned conferences. He has also made contributions to two (2) textbooks. In February, 2014, he made public presentation of a book titled ‘Strengthening of Distressed Buildings’. He has researched into the structural properties of bamboo and developed the technology for its successful incorporation as replacement of steel reinforcement in some structural elements. He has also researched extensively on Foamed Aerated Concrete. Prof. Falade has presented over 45 papers at workshops and seminars on such topics as Project Management, Quality Control, Maintenance of Facilities, and Contract Procurement Processes etc. Prof. Falade is a member of some professional bodies both locally and internationally, including Fellow, The Nigerian Academy of Engineering, Fellow, Nigerian Society of Engineers, Fellow, African Engineering Education Association, Registered Engineers, Council for the Regulation of Engineering in Nigeria etc. He is a promoter of engineering education. He was the initiator of African Regional Conference on Engineering Education and the Chairman, Organizing Committee and the Editor of the Proceedings of the 1st, 2nd and 5th African Regional Conference on Engineering Education that were held at University of Lagos in 23rd – 25th September, 2002, 20th – 22nd September, 2004 and 9th -12th September, 2013 respectively. He is the President of the African Engineering Education Association (AEEA) and former Vice-President, international Federation of Engineering Education Societies (2009-2012). He was appointed UNESCO Consultant in 2005.

Session II: Global Engineering Education
10:00 am – 11:45 am (Tuesday, April 5) – Room 1

10:00 – 10:20 am (Tuesday, April 5)

**Professor Christian Amaechi Bolu, FNSE, FAEng**
Dean
College of Engineering
Covenant University
Ota, Nigeria

Towards Proactive Agenda for (Mechatronics) Engineering Education in Africa

Professor Christian Amaechi Bolu, graduated with B,Sc in Mechanical Engineering from University of Nigeria, Nsukka in 1976, M.Eng in Industrial Engineering from University of Toronto, Canada in 1979 and Ph.D in Industrial and Systems Engineering from University of Wales, Swansea, United Kingdom in 1982. Prof Bolu, a professor of Mechatronics Engineering, is a practicing engineer with engineering industry work experience spanning over 27 years. He ran several multi-national engineering companies in Nigeria, Ghana and Kenya at top technical and management levels. He was instrumental to setting up of the first CNC wire-cutting machine in Nigeria, in the late 1980s as well as the first automated powder coating plant in Nigeria. He was the developer of one of the early Enterprise Resource Planning solutions widely used in engineering manufacturing plants in Nigeria, Ghana and Kenya. Prof Bolu, a Fellow of the Nigerian Academy of Engineering, Fellow of both the Nigerian Society of Engineers and Nigerian Institution of Industrial Engineers was a one-time Chairman of the Nigerian Society of Engineers (Lagos Branch), National Technical Secretary of the Nigeria Society of Engineers and President of the Nigerian Institution of Industrial Engineers. He is an SAP Certified Solution Consultant. His present special interest area is in Mechatronics System Design for community development, Internet of Things (IoT) and Rapid Prototyping. He is presently the Dean, College of Engineering, Covenant University, Ota, Nigeria, after serving as pioneer Dean, Faculty of Engineering, Federal University Oye-Ekiti, Nigeria from 2012-2015.

10:20 – 10:40 am (Tuesday, April 5)

**Engr. Prof. Adagbonyin Moses O. Obiazi**
Dean, Faculty of Engineering and Technology
Ambrose Alli University, Nigeria
President, African Engineering Deans Council, AEDC

Engr. Prof. Adagbonyin Moses O. Obiazi was born at Agbor in Delta state. He attended the prestigious Ika Grammar School, Agbor from 1974 to 1979 obtaining the West African School Certificate with Distinction. He proceeded immediately to the University of Benin to study Electrical / Electronics Engineering, graduating in 1984 with 2nd Class Hons, Upper Division. He had his Masters Degree in Electrical Engineering from the University of Lagos in 1991 and capped it with a PhD in Electrical Power and Machines from Ambrose Alli University, Ekpoma, supervised by the renowned Engr. Prof. Philip Kuale.

Prof. Obiazi started his working career in the Federal Polytechnic University, Auchi in 1985 after his NYSC in Sokoto State. In the quest for higher levels of engagement, Engr. Obiazi joined the services of then Bendel State University, Ekpoma (now, Ambrose Alli University) in 1987 where he has risen through the ranks from Graduate Assistant to his current status as a Professor of Electrical Engineering and Dean of the Faculty of Engineering and Technology. He was the Head of Department of Electrical/Electronics Engineering [1997-1999]. Sub-Dean of the Faculty of Engineering and Technology, Member of the University Senate and Member/Chairman of over 40 University committees/panels. He is currently serving as the Chairman of the Central Bank intervention Projects in Ambrose Alli University.
At the professional level, Engr Prof Obiazi was elected a corporate member of the Nigerian Society of Engineers [NSE] in 1993. As an active member of NSE, he was made Secretary, NSE, Ekpoma Branch from 1994-1997 and Chairman of the Branch for five years (1997-2002). During his Chairmanship, the branch won a national merit award as the Most Improved Branch in Nigeria. In 1999, he was made a life member of NSE. He has been a member of the National Executive Council of NSE from 1997 to 2002 and from 2012 to date. He has served in several committees of NSE at both national and local levels, NSE national committees such as Finance and General purpose Committee, Education and Training Committee, Awards and Endowment Committee, Conference Planning Committee, Codes and Standards Committee among others. As a registered Engineer with COREN (Council for the Regulation of Engineering in Nigeria), COREN in 2006 made him a member of Engineering Regulation and Monitoring (ERM) Committee. He has also served as a member of COREN accreditation team to some eight universities and two polytechnics. For eleven years (2001-2012), he was an External Examiner to the Petroleum Training Institute (PTI), Effurun, and since 2011, External Examiner to Delta State University, Abraka. In 1991, Engr. Obiazi was sponsored by UNESCO to Kumasi, Ghana to present a research paper at an International Engineering Conference, while in 2013, he was sponsored to the Conference of the Global Engineering Deans Council [GEDC] held in Chicago, USA. In 1994, the Delta State Government appointed him as a Member of the Delta State Public Utilities Board (PUB).

In May 2013, Engr. Prof OBIAZI was appointed the National Secretary of the Committee set up by COREN [Council for the Regulation of Engineering in Nigeria] to develop COREN Minimum Benchmarks for the training of Engineers in Nigerian Universities. In 2006, Shell Petroleum Development Company (SPDC) appointed Engr. Obiazi as a research advisor on sabbatical to help with the construction and installation work on the new Afam VI power station in Rivers State. In March, 2010, the Edo State Government appointed Engr. Obiazi as a member of the Governing council of Edo State Institute of Technology and Management, Usen (a polytechnic), a position he held till Sept, 2012.

Engr. Prof. Obiazi has received several awards from students, staff, religious and professional bodies and groups for outstanding contributions to engineering, education, national development and socio-cultural advancement. Engr. Prof. Obiazi is well published in both local and foreign journals and has presented papers in several local and international conferences.

In Sept, 2012 Eng. Prof. Obiazi was elected the Chairman, Committee of Deans of Engineering and Technology of Nigerian Universities.

10:40 – 11:00 am (Tuesday, April 5)

**Nouçaiba Sbai**

Industrial Engineer and PhD Candidate
Ecole Mohammadia d’Ingénieurs
Mohammed V University
Rabat, Morocco

MBA and BA Lecturer
SIST British Education
Morocco

Sbai Nouçaiba is a fifth-year Ph.D. Candidate in Engineering Sciences and Supply chain management at EMI School of Engineering at Mohamed V University in Rabat. She is a member of the Analyze, Modelling, and Integration of Processes and Systems (AMIPS) research team in EMI. Her doctoral main research investigates multi-echelon inventory management with a special focus on sizing multi-echelon inventories in the pharmaceutical sector. Her research interests are in the areas of supply chain management, simulation in supply chain networks, and multi-criteria decision-making. She published several conference papers and participated in international conferences in Morocco as well as Europe. She holds an engineering degree in Industrial Engineering from the EMI School of Engineering at Mohamed V University in Rabat. She has been an MBA and BA Lecturer At SIST British Education in Morocco since 2018.

11:00 – 11:20 am (Tuesday, April 5)

**Manali Kshirsagar**

Principal
Rajiv Gandhi College of Engineering and Research, Wanadongri
Nagpur, Maharashtra, India

11:20 – 11:40 am (Tuesday, April 5)

**Enhancing Sustainable Engineering Education and Practice in the Developing Countries Through University-Industry Collaboration: A Nigeria Perspective**

**Engr Celestine Nnaemeka Achebe**

Lecturer and Researcher in the field of Industrial Engineering and Operations Management
Department of Mechanical Engineering
University of Nigeria, Nsukka

Engr Celestine Nnaemeka Achebe is a lecturer and researcher in the field of Industrial Engineering and Operations Management, Department of Mechanical Engineering, University of Nigeria, Nsukka. He obtained a bachelor's degree in Metallurgical and Materials Engineering at Nnamdi Azikiwe University, Awka Nigeria and master’s degree in Mechanical Engineering, University of Nigeria, focusing on Industrial Engineering and Management. He is currently a doctoral degree Candidate. He is a COREN registered Engineer. Engr Achebe’s areas of specialisation are Industrial Engineering and Operations Management, Metallurgy and Materials Engineering. Before embracing university teaching and research career, Engr Achebe worked several years as supervisor at FRSC License Vehicle Number Plate plant, Abuja, and later the Head, Delta State Plant for several years. He had published works in peer-reviewed international journals.
reviewed local and international journals and conference proceedings. Research interests include but not restricted to operations research, operations management and materials technology. C.N. Achebe has interdisciplinary savvy.

Currently, he is the staff coordinator of University of Nigeria Nsukka-IEOM Students Society.

Engr Dr Paul Amaechi Ozor
Head, Department of Mechanical Engineering
University of Nigeria, Nsukka, Nigeria

Engr Dr Paul Amaechi Ozor is the West African Sub-Regional Coordinator of Industrial Engineering and Operations Management Society International. He holds a bachelor's degree in Mechanical/Production Engineering from the Enugu State University of Science and Technology as well as Masters and PhD in Industrial Engineering and Management from the University of Nigeria, Nsukka. Dr Ozor had been a Project Manager in a reputable Engineering company in Nigeria for many years. He had been a faculty member of University of Nigeria Nsukka since 2009, and has served the Department of Mechanical Engineering and Faculty of Engineering in various capacities prior to his appointment as the head of Department of Mechanical Engineering in August 2021. Dr Ozor is a Scholar of the Association of Commonwealth Universities (ACU), and a fellow of The World Academy of Science. He is a fellow of the global excellence stature (GES) of the University of Johannesburg. He is currently serving as a Senior Research Associate of the University. As a speaker and participant in international conferences, seminars and workshops, he has visited several countries on research grounds. Dr Ozor has published research articles in many peer reviewed local and international Journals and conference proceedings. He has supervised significant local and international postgraduate students to successful study completion. He is an external examiner to University of the Witwatersrand, South Africa. He is a member of the Nigeria Society of Engineers (NSE) and registered with the Council for the Regulation of Engineering in Nigeria (COREN). His research interest is not limited to Asset Management, Quality, Operations Management, Reliability Engineering, Environmental Influence, Sustainable materials, lean six sigma, smart manufacturing.

Prof Nita Inderlal Sukdeo
Associate Professor and Head
Department in the Department of Quality and Operations Management
School of Mechanical and Industrial Engineering
University of Johannesburg, South Africa

Prof Nita Inderlal Sukdeo is currently an Associate Professor and Head of Department in the Department of Quality and Operations Management within the School of Mechanical and Industrial Engineering at the University of Johannesburg, South Africa. She obtained a Masters in Quality from the Durban University of Technology and a PhD in Engineering Management from the University of Johannesburg. She is an active researcher in the field of total quality management and operations management. Her field of expertise also include advanced manufacturing technologies, smart factory, Quality 4.0, quantitative analysis, quality management systems, quality auditing and risk assessment. She is a qualified Lead Auditor, proficient in ISO standards and certification. She is chairperson and director of the Society for Operations Management in Africa (SOMA), a non-executive director of the South African Society for Quality (SASQ). She is an active participant and session chair of the IEOM Women in Industry and Academia panel session Africa edition.

She is chairperson and director of the Society for Operations Management in Africa (SOMA), a non-executive director of the South African Society for Quality (SASQ). She is an active participant and session chair of the IEOM Women in Industry and Academia panel session Africa edition.

Session III: Global Engineering Education
3:00 – 4:45 pm (Tuesday, April 5) – Room 1
Session Chair: Dr Boitumelo Ramatsetse

3:00 – 3:20 pm (Tuesday, April 5)

Dr Boitumelo Ramatsetse
Lecturer & Researcher: Engineering Graphics and Design (EGD)
Educational Information and Engineering Technology (EDIET)
Wits School of Education
University of the Witwatersrand
Commissioner: Office of the Presidency
Republic of South Africa

Dr. Boitumelo Ramatsetse is currently a member of the National Planning Commission (NPC) in the Office of the Presidency (Republic of South Africa). In addition, he is a Lecturer & Researcher in the Educational Information & Engineering Technology (EDIET) division, School of Education, University of the Witwatersrand, as well as a Research & Innovation (RnI) Associate at the Faculty of Engineering & the Built Environment (FEBE), Tshwane University of Technology (TUT) in South Africa. He has over 10 years of teaching and research experience in Higher Education Institutions with vast knowledge in areas of engineering, design, risk analysis, problem solving, project management, manufacturing, innovation and leadership. He holds a Doctor of Engineering (D-Eng), Master of Technology (M-Tech) degree in Industrial Engineering, Bachelor of Technology (B-Tech), National Diploma in Mechanical Engineering from TUT as well as Certificate in Project Management from University of South Africa (UNISA). He is an associate member of Southern African Institute of Industrial Engineers (SAIIE), member of Southern African Institute of Mechanical Engineers (SAI MechE) as well as Industrial Engineering and Operations Management (IEOM). He has served at the National Research Foundation (NRF) funding committee for the year 2017 and he was also the member of the Local Organising Committee for the CIRP (The International Academy for Production Engineering) design conference 2020 held in South Africa. He is currently a Y-Rated NRF researcher with over 30 peer-reviewed scientific papers and 1 book chapter. To date, he has successfully filed 3 patents in South Africa and China.
He has been invited to present on innovation and advanced manufacturing initiatives in countries such as Tanzania (Dar es Salaam), Mozambique (Maputo), Germany (Ingenieurbüro Wolfgang Bauer-IWB), UK (London Imperial College), Mexico (Monterrey), China (Beihang, Tsinghua & Tongji University) where he established business and research collaborations. He has been actively involved in numerous interdisciplinary research projects in collaboration with research institutions, industries and government organizations. Through his efforts, he has attracted over R832 800 worth of seed-funding for technology development and commercialisation. He has received over 20 awards and recognitions for his efforts, which includes: Winner 2020/2021 NSTF-South32 TW-Kambule Emerging Researcher award, Finalist 2020/2021 NSTF-South32 Innovation Award; Corporate Organisation, 2021 Mail & Guardian 200 most influential Young South Africans, Semi-Finalist Accenture Rising Star Awards 2021, 3rd Place Winner GAP Innovation Competition 2020, The most efficient PhD candidate, Winner Intellectual Property Competition 2020, Finalist for the Standard Bank Rising Star Awards 2017, Best poster award IEOM conference 2018, Gibela Research Chair Contribution Award 2018, National Intellectual Property Management Office (NIPMO) Patent Award 2017, NRF Freestanding and Innovation Doctoral Fellowships 2016, Highest number of publications award 2016, Finalist Step-Up Technology Innovation Competition 2013, Winner Sasol Society of Automotive Engineers (SAE) Baja Competition 2011 etc. His research interests includes; innovation, maintenance engineering, life cycle management, reconfigurable manufacturing systems (RMS), production systems, machine design, ranging from theory to design implementation.

3:20 – 3:40 pm (Tuesday, April 5)

**Shailesh Shirdung, Ph.D.**
Head - Office of International Relations and Education
Rajarambapu Institute of Technology
Rajaramnagar, Maharashtra, India

3:40 – 4:00 pm (Tuesday, April 5)

**Engineer Lovemore Gunda**
DPhil Student, Department of Electrical Engineering.
University of Zimbabwe
Harare, Zimbabwe

Engineer Lovemore Gunda is a DPhil student at the University of Zimbabwe in the Department of Electrical Engineering. He is majoring in the development of renewable energy based power systems for rural electrification. He is also currently employed as a Lecturer at the National University of Science and Technology in Zimbabwe since 2016. He holds a Master of Engineering Degree in Electronic Engineering and a Bachelor of Engineering degree in the same field. The total number of publications produced by Engineer Gunda from 2010 to date is fourteen in journals and conference proceedings. His research areas include power electronics, electrical machine drives, electrical and electronic measurements, instrumentation and control, power systems simulation and modelling and renewable energy power systems. Engineer Gunda is a fully registered Professional Engineer registered under the Zimbabwe Institution of Engineers (ZIE).

4:00 – 4:20 pm (Tuesday, April 5)

**Dr. Didibhuku Wellington Thwala**
Professor
University of South Africa (UNISA)
Johannesburg, South Africa

4:20 – 4:40 pm (Tuesday, April 5)

**Engr Prof. Edmund Chijioke Okoroigwe**
Chairman, Nigeria Society of Engineers
Nsukka Branch

**Title:** *University-Industry Linkages: The Gateway for Accelerating National Development in Africa*

Edmund C. Okoroigwe holds Ph.D degree in Mechanical Engineering and is an Associate Professor of Mechanical Engineering, University of Nigeria. He was formerly the Acting Head, Department of Mechanical Engineering, University of Nigeria, for two years. His research is in applied renewable energy. He was formerly a Research Fellow at the National Centre for Energy Research and Development, University of Nigeria, Nsukka, Nigeria under the Energy Commission of Nigeria. He was a recipient of Fulbright Scholar award to Michigan State University, East Lansing in 2009/2010. He is a recipient of NRF Postdoctoral Fellowship at University of Cape Town South Africa on ERAfrica Project 2014 – 2016. He is a registered engineer with the Council for the Regulation of Engineering in Nigeria (COREN), a member of the Nigerian Society of Engineers (NSE), member of the Solar Energy Society of Nigeria (SESN). He has authored many scholarly research papers published in impact fact journals across the world. He is currently the Chairman, Nigerian Society of Engineers, Nsukka Branch and the pioneer Coordinator, Nigerian Institution of Mechanical Engineers (NI MechE) Nsukka Chapter. He has visited China, USA, Tunisia, Benin Republic, Rwanda, and South Africa.
Dr. Esther Matemba
Engineering Education Advisor- Lassonde Educational Innovation Studio (LEIS)
Lassonde School of Engineering, York University, Canada
Governing Board Member for Research in Engineering Education Network (REEN) – Africa representative
Sessional Academic, Curtin University, Western Australia

Redefining Global Engineering Education for Africa

Esther Matemba is an engineering lecturer and an active engineering education researcher. She is currently working as an Engineering Education Advisor for Lassonde Educational Innovation Studio (LEIS) at York University. Her previous Engineering Education research experience include a Research Assistant role at Curtin University (2015), and a Research Associate role at the University of Western Australia (Feb 2019 – Aug 2019). Esther is a Governing Board Member of Research in Engineering Education Network (REEN) representing Africa region. She has a PhD in Engineering Education from the Department of Civil Engineering at Curtin University, Australia. Her PhD titled ‘Globalisation of engineers: African Professional Engineering Education Perspective’, focused on issues of developing curriculum for globalisation with a particular interest on Africa. Esther also holds a Masters of Science in Construction Management (2009), and a Bachelor of Science in Civil Engineering (2007) from the University of Dar es Salaam, Tanzania, where she also lectured for five years. She is a co-founder of a project called ‘Collaboration and Method Sharing for engineering educators’, founded in 2015, with the purpose of sharing student centred methods to engineering educators in Africa. Esther’s research interests include curriculum for global engineers in the Global South, engineering competencies, international accreditation and African engineering education, and her work appears in different international conferences and journals.

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Health emergencies occur in passenger cars where victims do not have immediate access to either layperson or professional, proper medical services, resulting in deterioration of their health or death. Installation of robotic first aid system for passenger-car occupants has been proposed. This study is part of a larger work of designing the system and seeks to identify the safest location inside the vehicle for it to survive any form of impact in a crash and retain the ability to assist the victims. The study population comprised 70 passenger cars (14 automakers across 7 segments) involved in road traffic accidents, which had been recovered by a roadside vehicle assistance company based in Harare, Zimbabwe. Vehicle damage was rated considering direction of force in comparison to a clock -point diagram, area damaged, and the damage severity on a scale of 1 to 7, following an official vehicle damage guide for traffic crash investigators. By eliminating all areas which had received damage in the study population, the robotic first aid system’s best chances of car crash survival are at the middle, towards the floor of the vehicle. It is advisable that the system was not dependent on components in the proximity of the vehicle’s body as they are prone to damage in crashes. Hardware and software automotive engineering and the healthcare systems design. He is a Corporate Member of the Zimbabwe Institute of Engineers (ZIE) and the Engineering Council of Zimbabwe. Tawanda is in the process of finalizing his patent for Robotic First Aid in passenger vehicle, which will reduce deaths in the global society as a whole at scenes where accidents occur. His education is as follows: PhD (Doctor of Engineering), he did fuzzy logic system design for reducing machinery failure in industries and was obtained at the University of Johannesburg in 2017; Master’s degree in Manufacturing Systems and Operations Management (MSc. MSOM), which he completed in 2012, and a BSc in Mechanical Engineering in 2008 all from the University of Zimbabwe. He is currently doing an MSc in Medical Physics at National University of Science and Technology in Zimbabwe (2019 – Sept 2022). For this masters he mastered Radiography for Cancer Treatment, Nuclear Medicine, Radiation Protection and Safety, Medical Electronics and Instrumentation and Diagnostic Radiology. His main research is on Breast Cancer Treatment using Machine Learning. Robotic First Aid System.
Dr. Kanwalvir Singh Dhindsa
Professor & Head, Department of CSE
Baba Banda Singh Bahadur Engg. College (BBSBEC)
Fatehgarh Sahib (Pincode-140407)
Punjab, India

Dr. Kanwalvir Singh Dhindsa is currently working as Professor & Head, Department of Computer Science & Engg. at Baba Banda Singh Bahadur Engg. College (BBSBEC), Fatehgarh Sahib (Punjab). He earned both his Ph.D degree (2014) in the field of Information Systems & Mobile Computing; and M.Tech degree (2003) from Punjab University, Patiala (Punjab). He is also having additional charge@BBSBEC as: Officer Incharge- M.Tech (CSE), IKGPTU Regional Centre, Jalandar (Pb.), Coordinator, IIT-Bombay Spoken Tutorial Labs, Oracle Academy, FOSS Centre and Coordinator, IIT-Bombay Remote Centre.

His Ph.D Thesis has been awarded as the “Best Ph.D. Thesis Award” by Computer Society of India (CSI) at Roorkee, Uttarakhand in the year 2014. He has also received “Best Paper Award” at International Conference at Dubai in year 2012. Dr. Dhindsa has also been awarded “Green ThinkerZ - Outstanding Researcher Award” for his contribution in the field of Computer Science and Engineering at „IRSD-2016”, NITTTR, Chandigarh (Dec. 2016). He has also worked as Coordinator of Enterprise Resource Planning (2016-2019) & college website@BBSBEC (2015-2019). He is the Member, Board of Studies (Computer Applications) of IKG Punjab Technical University, Jalandar. He has also been the Member, Board of Studies (Information Technology) of MRS Punjab Technical University, Bathinda. His expertise includes Expert Member for CSE branch, Academic Committee, Faculty of Engg. & Technology at Punjab University, Patiala & as Expert for various selection and promotion committees. He is an avid researcher and has been involved in the academics and research in the field of Computer science and Engineering & IT for the last more than 21 years. His Bibliography has been listed in the Asia Pacific (Vol. XVI) – Who’s Who (Jan. 2018). He has already guided PhD Thesis of 6 PhD scholars & dissertations/thesis of 40+ M.Tech. (CSE) - PG students; and is also currently guiding 5 Ph.D scholars. He has been granted 3 International Patents & published 1 Indian Patent while 1 Indian Patent has been filed also.

He has been the NBA Programme Coordinator for BTech(CSE) Programme at Baba Banda Sing Bahadur Engg. College, Fatehgarh Sahib (Punjab) for which BTech(CSE) Programme got accredited from NBA for three years (2017-2020). As Head of CSE Department@BBSBEC, BTech(CSE) Programme got again accredited from NBA for year (2020-2021). His work experience also includes Incharge, Computer centre@BBSBEC. He has been also the Member-Coordinator for NAAC for preparation of faculty and staff regarding Criterion points for NAAC peer team-2021 visit, for which BBSBEC Institute got accredited from NAAC for five years (2021-2025).


Session II: Industry 4.0
10:00 – 11:40 am (Wednesday, April 6) – Room 1

Dr. Lemma Lessa
Assistant Professor of Information Systems
School of Information Science
Addis Ababa University (AAU)
Ethiopia

Dr. Lemma Lessa is an assistant professor of Information Systems at School of Information Science, Addis Ababa University (AAU), Ethiopia. He received his doctorate in Information Technology (specialized in Information Systems) from Addis Ababa University. He has served over twenty years in the Ethiopian Higher education. His teaching interest is on the socio-technical aspects of Information Systems. His postgraduate teaching at AAU includes Information Systems Security Management, Information Systems Strategy & Management, Enterprise Systems, Information Systems Project Management, Research Methods for Information Science and Systems, and Information Systems Analysis, Modelling & Design. His research interest is on Information Systems Security Management, IT Governance, Enterprise Systems and e-Government. He is member of Association for Information Systems (AIS) and current president of the Ethiopian chapter of AIS. Dr. Lemma is serving as an associate editor for the African Journal of Information Systems, reviewer for international conferences such as the International Conference on eDemocracy & e-Government, International Conference on Digital Transformations and Global Society, Hawaii International Conference on System Sciences, and International Conference on Electronic Governance and Open Society. He has attended different subject-oriented short-term trainings such as Usable security, Cyber security and its Domains, Fundamentals of Cyber Attacks, Cyber Attack Countermeasures, Real-time Cyber Threat Detection and Mitigation, Enterprise and Infrastructure Security, Digital Transformations and more.
Dr. Mohammad Iqbal
Professor
Department of Industrial and Production Engineering
Shahjalal University of Science and Technology
Sylhet, Bangladesh

Dr. Mohammad Iqbal is currently serving as a Professor at Shahjalal University of Science and Technology (SUST) under the Department of Industrial and Production. Professor Iqbal obtained his Bachelor of Technology (Mechanical) from Sri Venkateshwara University, College of Engineering, Tirupati, Andre Pradesh, India and M.Sc. Engineering from the department of Industrial and Production Engineering, BUET, Dhaka in 1989 and 1993 respectively. He received his Ph.D. from Dublin City University, Dublin, Republic of Ireland in 2000. Professor Iqbal served as a visiting research scholar at Mary O’Connor Process Safety Center, Texas A & M University, College Station, Texas, USA in the year 2018. He is the founder lecturer of the Department of Industrial and Production, SUST. He served as the Head of the department for 13 years and Dean of School of Applied Science and Technology for two years. He was the Head of Petroleum and Mineral Engineering Department Shahjalal University of Science and Technology (SUST), Sylhet, Bangladesh for one year. He has 30 years of industrial, research and teaching experiences. Professor Iqbal’s present research interest includes Virtual Reality, Ergonomics, Industrial safety and risk management, Supply chain management, Renewable energy and Production system analysis and Climate change and environment. He has more than 100 International publications in conference proceedings and peer review journals. He is a co-author of three engineering books namely Surveying, Engineering Materials and Industrial Health, Safety & Welfare. He is a life member of the Institution of Engineers, Bangladesh. He was the honorary secretary of the Institution of Engineers Bangladesh (IEB) Sylhet Centre, Sylhet, Bangladesh during 2018-2019. Dr. Iqbal was the Conference Chair of IEOM Society - Bangladesh Chapter held in December 2019. He was the Chair of IEOM Society – Bangladesh Chapter from March 2018 – February 2020. Professor Iqbal conducted many training programs, seminars, workshops and symposiums at home and abroad. He has been involved in several research projects funded by the Ministry of Science and Technology, Bangladesh and SUST Research Center, Shahjalal University of Science and Technology, Sylhet, Bangladesh. Professor Iqbal received International and National Awards on research papers presented at different International Conferences home and abroad.

Mr. Keshav Kaushik
Assistant Professor
School of Computer Science
University of Petroleum and Energy Studies
Dehradun, India

Mr. Keshav Kaushik is working as an Assistant Professor in the School of Computer Science at the University of Petroleum and Energy Studies, Dehradun, India. He is an experienced educator with over 7 years of teaching and research experience in Cybersecurity, Digital Forensics, the Internet of Things, and Blockchain Technology. Mr. Kaushik received his B.Tech degree in Computer Science and Engineering from the University Institute of Engineering and Technology, Maharshi Dayanand University, Rohtak. In addition, M.Tech degree in Information Technology from YMCA University of Science and Technology, Faridabad, Haryana. He has published 20+ research papers in International Journals and has presented at reputed International Conferences. He is a Certified Ethical Hacker (CEH) v11, COI and IRCA Certified ISO/IEC 27001:2013 Lead Auditor, and Quick Heal Academy certified Cyber Security Professional (QCSP). He acted as a keynote speaker and delivered 50+ professional talks on various national and international platforms. He has edited more than 8 books with reputed publishers.

Dr. Sam Takavarasha Jr.
Dean, Faculty of Management and Entrepreneurial Sciences
Women’s University of Africa
Zimbabwe

Dr Sam Takavarasha Jr is the Dean of the Faculty of Management and Entrepreneurial Sciences Women’s University of Africa (Zimbabwe). Prior to that he was a research fellow at University of Fort Hare department of Information Systems. He acquired his BSc at the University of Portsmouth, UK and PhD in Information Systems at University of Zimbabwe where he led research consultancy projects and championed Zimbabwe’s first e-learning virtual lecture project. Sam lectured Information Systems at the University of Portsmouth UK, University of Fort Hare and Women’s University in Africa.

Sam has published several peer reviewed academic papers and a book with ICT4D. He conducted four national consultancy research projects, two of which he was the principal investigator. His research interests is built on an egalitarian approaches to Information Systems in Developing Countries, ICT4D. His teaching interest include IT Project Management, Human Computer Interaction, e-commerce and e-business.

Sam’s editorial experience includes being special issue journal editor (International Journal of Information Systems (IJISPM) and Electronic Journal of Information Systems in Developing Countries (EIJISDC), IEOM Journal and book project editor. He was track chair ECIS 2017(General track), ECIS 2018 (ICT4D track) and IEOM 2020 and 2022 (Cyber Security track). Sam serves as program committee member of international conference such as IFIP HCC13, IFIP HCC14 and ICTAS2018 to 2021 and ACIST 2021-2022, among other conferences.

11:00 – 11:20 am (Wednesday, April 6)
Session III: Industry Solutions and Industry 4.0

3:00 am – 4:40 pm (Wednesday, April 6) - Room 1
Session Chair: Saiful Siddique, Stellantis, Auburn Hills, USA

3:00 – 3:20 pm (Wednesday, April 6)

Prof. Ogechukwu Nkechinyelu Iloanusi, Ph.D.
Head, Department of Electronics Engineering
University of Nigeria Nsukka

Overcoming the Challenges of a Developing Country to Embracing the Fourth Industrial Revolution: A Case for Nigeria

Ogechukwu N. Iloanusi (Ph.D.) is a Full Professor at the Department of Electronic Engineering, Faculty of Engineering, University of Nigeria, Nsukka Campus. She joined the Faculty in October 2005. She holds a B.Eng and M.Eng in Electronic Engineering; Ph.D. in Digital Electronics from the Department of Electronic Engineering, University of Nigeria. Her research interests include biometrics, signal processing, pattern recognition, artificial intelligence, computer vision and machine / deep learning. She is a member of the Council for the Regulation of Engineering in Nigeria (COREN), Institute of Electrical and Electronic Engineers (IEEE) and Women in Engineering (WIE). She is a Commonwealth Fellow.

Since 2006, She has completed supervision of 42 projects of least 120 undergraduate students and 23 postgraduate students. She currently supervises 9 Ph.D. and 2 Masters students. She is also the Director of research in the Biometrics Vision and Computing laboratory (BVCLab). She is currently the Head of Department of Electronic Engineering and is serving as the first female Head of Department. She is the first female Professor in the Faculty of Engineering, University of Nigeria since its inception in 1961. She also authored the book titled – Fundamentals of Biometrics (2016) with other two co-authors. She has over 50 journal and conference publications and has attended over 20 conferences and workshops internationally in countries in Africa, North America, Europe and the Middle East.

Prof. Ogechukwu Iloanusi was twice a Visiting Scholar at the Lane Department of Computer Science and Electrical Engineering, College of Engineering and Mineral Resources, West Virginia University where she carried out pre-doctoral research for a total of ten months from August 2009 to November 2009 and April 2010 to November 2010. She was also granted a Commonwealth Academic Fellowship Award by the Commonwealth Scholarship Commission in the UK where she was a Visiting Fellow at the University of Southampton, Highfield, Southampton, UK from September 2012 to December 2012. She also participated in a Teaching Fellowship for Nigerian University Professors at the Massachusetts Institute of Technology where she collaborated with the Faculty at MIT in the development of new curriculum and teaching methods that were adapted to her home university from September to December 2013. She has also served as an Assistant Guest Professor in a one-year contract with the University of Notre Dame du Lac, Notre Dame, IN, USA, from a period of August 2016 to August 2017.

3:20 – 3:40 pm (Wednesday, April 6)

Engr. Dr. Patrick U. Akpan
Senior Lecturer – Dept. of Mechatronics Engineering, University of Nigeria
Senior Lecturer – Dept. of Mechatronics Engineering, University of Nigeria
Co-Founder/Partner – Comdalytics Nigeria Limited

A Natural Convective Passive Noise Control System for Mini-Generators

Patrick U. Akpan is a Senior Lecturer with the department of Mechanical Engineering & Mechatronics Engineering at the University of Nigeria. His expertise covers: design, modelling and thermal performance evaluation and simulation of conventional and renewable energy systems and power plants; energy system integration; energy audit; energy management and deployment; measurement and instrumentation; and refrigeration and air-conditioning systems. He has a PhD in Mechanical Engineering (specializing in Power Plant Engineering) from the University of Cape Town, an MSc in Process Systems Engineering (specializing in Energy Systems and Thermal processes) from Cranfield University United Kingdom and a Bachelor’s degree in Mechanical Engineering from the University of Nigeria. Dr Akpan’s experience and interests have been fostered by fourteen years (2008-2022) of independent and collaborative research and development projects, academic project supervisions, and undergraduate teaching and mentoring at various organizations in Nigeria, South Africa, and the United Kingdom. The organizations are: University of Nigeria (UNN), University of Cape Town, Cranfield University, Bentley Motors in Crewe UK, Eskom Power Holdings in South Africa, and Comdalytics Nigeria Limited. Akpan has authored/co-authored twenty-six (26) scholarly publications. He also reviews papers for scientific and engineering Journals such as Energy Conversion and Management, Energy, NIJOTECH, and etc. He has gained proficiency in the use of different engineering softwares in his previous and current research projects. These include: Python, Ansys Fluent, MATLAB, Wanda Transient, Excel, System Advisor Model, Virtual Plant, EPANET etc. Akpan has received a number of awards namely: African Energy Indaba Top Innovator Award (2017); Eskom Energy Efficiency Doctoral Bursary Award (2016-2019); TWAS-NRF Doctoral Fellowship Award (2016-2018); NNPC/ESSO Exploration Foreign Post-Graduate Scholarship (2010-2011); Exxon Mobil Producing Nigeria Limited Undergraduate Scholarship (2002-2006). His previous and present membership of professional bodies include: African Renewable Energy Alliance (AREA), Council for the Regulation of Engineering in Nigeria (COREN), American Society of Mechanical Engineers (ASME), Energy Institute in UK and South African National Energy Association (SANEAA).
Dr. Ahad Ali
Associate Professor
Director of Bachelor of Science in Industrial Engineering
Director, Master of Science in Industrial Engineering
Director of Smart Manufacturing and Lean Systems Research Group
A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering
Lawrence Technological University
Southfield, Michigan, USA

Dr. Ahad Ali is an Associate Professor and Director of Bachelor of Science in Industrial Engineering and Master of Science in Industrial Engineering in the A. Leon Linton Department of Mechanical Engineering at the Lawrence Technological University, Michigan. Dr. Ali is the Director of Smart Manufacturing and Lean Systems Research Group. He earned B.S. in Mechanical Engineering from Khulna University of Engineering and Technology, Bangladesh, Masters in Systems and Engineering Management from Nanyang Technological University, Singapore and Ph.D. in Industrial Engineering from University of Wisconsin-Milwaukee. Dr. Ali is the Executive Director of IEOM Society and Conference Chair of the Sixth International Conference on Industrial Engineering and operations Management, Kuala Lumpur 2016. He advised six doctorate students in Doctor of Engineering in Manufacturing Systems. Dr. Ali has published journal and conference papers. He was past President of IIE Lean Division. Dr Ali has done research projects with Chrysler, Ford, DTE Energy, Delphi Automotive System, GE Medical Systems, Harley-Davidson Motor Company, International Truck and Engine Corporation (ITEC), National/Panasonic Electronics, and Rockwell Automation. His research interests include quality, reliability, six sigma, manufacturing, simulation, optimization, scheduling, maintenance, e-manufacturing, lean, CAE and GD&T and. He is a member of ASEE, IEEE, IEOM, INFORMS, and SME.

4:00 – 4:20 pm (Wednesday, April 6)

Saiful Siddique
Engineering Supervisor
High Voltage Charging System
Stellantis
Auburn Hills, USA

EV Charging: Challenges and Opportunities - INTEROPERABILITY CHARGING ANALYSIS

Saiful Siddique is a product development professional with years of verifiable experience with US automotive OEM’s. After graduating from the University of Michigan-Flint, he works for Ford Motor Company and General Motors as a new product development engineer. Currently, work for Stellantis (Former Fiat Chrysler Automobile) as an engineering leader. Managing high volume manufacturing products including Power electronics, HV powertrain hardware/software, mechanical, and electrical components. Also managed HV battery system components and interiors. He is a member of the UM-Flint Engineering Industrial Advisory Board (EIAB).

4:20 – 4:40 pm (Wednesday, April 6)
IEOM Global Business Management Education (GBME)
8th IEOM Global Supply Chain and Logistics
DISTINGUISHED SPEAKERS
Thursday (April 7, 2022)

Global Supply Chain and Logistics - I
Session Chair: Ms. Sebonkile Thaba, University of Johannesburg, South Africa
8:00 – 9:40 am (Thursday, April 7) – Room 1

8:00 – 8:20 am (Thursday, April 7)

Dr. Thobile Yvonne Bhila
Programme Manager
School of Management
University of Johannesburg
South Africa

Dr Thobile Yvonne Bhila is a Programme Manager in the School of Management, leading a team of seventy-one lecturers and has over 13 years' experience in the higher education sector. She has been working as a Post-Doctoral Research Fellow at the University of Johannesburg in her previous employment. She was also previously employed as a University Lecturer in the private and public education institutions. She was awarded the NRF bursary in 2017 and the Faculty of Engineering and the Built Environment Bursary in 2018 – 2020 when she completed her PhD Degree, she was also awarded the Golden Key Honorary award, as she excelled in her Masters and PhD degree both of which she completed in record time. Has reviewed conference papers in 2018 – 2020.

8:20 – 8:40 am (Thursday, April 7)

Dr. A. B. M. Abdul Malek
Professor
SUST
Sylhet, Bangladesh

Supply Chain disruption under Covid 19

8:40 – 9:00 am, Thursday, April 7

Ilkay Boduroglu, Ph.D.
CEO + Director of R&D
Riskoptima
Istanbul, Turkey

Ilkay Boduroglu is the co-founder of Riskoptima, the home of the portfolio managing robot. Boduroglu’s applied research interests include finding optimal hedge scenarios for SMEs under severe commodity price oscillations. Boduroglu received his PhD degree from Columbia University’s IEOR Dept in 1997. He worked for a successful Silicon Valley startup, Demandtec at the beginning of the millennium and then moved to Bogazici University to become one of the co-founders of B.U. Financial Engineering Executive Program in 2002.

9:00 – 9:20 am, Thursday, April 7

Naill AlMomani Ph.D.│ P.E.│ CBCI│ TQC
Professor and Consultant
Dubai Police Academy
Dubai, United Arab Emirates

9:20 – 9:40 am (Thursday, April 7)
Ms Sebonkile Thaba  
Lecturer  
Department of Transport and Supply Chain Management  
University of Johannesburg  
South Africa  

Title: Social Economy Value Chain in Agro-processing Sector: The Case of Emerging Argo-processors and Small-Scale Farmers

She is currently a lecturer at the University of Johannesburg, holding Master of Technology Degree in Operations Management. Ms Thaba serves at the Department of Transport and Supply Chain Management, lecturing 3rd-year students on Purchasing and 4th-year students on Logistics Processes and Practices. Ms Thaba's research area are enterprise development, Sustainable Supply Chain Management and Cooperatives. She has so far published one book-chapter and 25 peer-reviewed international conferences papers. She has 34 Google Scholar citations with three h-index, and 1 I10-Index. She is awarded Academic Doctorate Advancement Project towards Transformation (ADAPTT) Scholarship, which is the collaboration of University of Florida (USA) and South Africa Higher Education (SA-HE) Network (UJ). Sebonkile received three global prestige's awards from Industrial Engineering and Operations Management (IEOM)-International Society, Best Track Paper Award, Outstanding Service Award and Teaching & Learning Award in Supply Chain Management. She is a Track Chair for Waste Management and Supply Chain Management, Annual International Conference on Industrial Engineering and Operations Management. Sebonkile formed part of the diversity and Inclusion panelist from the 2nd African International Conference on Industrial Engineering and Operations Management in Harare Zimbabwe, December 2021.

Ms Thaba currently is working on two projects, on Enterprise Development, which is Sustainable Supply Chain Management on Agricultural Farming Industry and Social Value Chain Economy within Local Community Enterprises. She currently a PhD candidate at University of Johannesburg, with a proposed title: Deconstructing the Social in Sustainable Supply Chain Management for African Farmers.

Global Business Management and Education II  
Session Chair: Vincent Onodugo, University of Nigeria, Enugu Campus  
10:00 – 11:40 pm (Thursday, April 7) – Room 1

Mr. Lawrance Seseni  
Lecturer  
College of Business and Economics  
University of Johannesburg  
South Africa

Mr. Lawrance Seseni is a PhD Operations Management candidate in the Department of Quality and Operations Management, Faculty of Engineering and the Built Environment, at the University of Johannesburg. He is a Lecturer in the Department of Business Management and at the Centre for Entrepreneurship in the College of Business and Economics at the University of Johannesburg. He is currently lecturing Entrepreneurship Studies to undergraduate students. He is also a co-supervisor for honours and master’s students from the College of Business and Economics. He is a board secretary at IBASA YC (Institute of Business Advisors Southern Africa under the Youth Chapter); he is a Director at Translife; he is a Primary Faculty Advisor for Enactus University of Johannesburg; he is a Peer Mentorship Coordinator for first-year students from the Department of Business Management; he is one of the two staff members who formed the Business Clinic at the University of Johannesburg; he is the editor of the departmental newsletter (Department of Business Management, University of Johannesburg); he is a house warden/house parent; and he is a lab manager for Digital Story Telling, a Common Good First project, which is an initiative by the European Union and Erasmus+. This project comprises universities from Iceland, Norway, Denmark, Scotland, Spain and South Africa as well as the global network, the Social Innovation Exchange. He formerly served as the Director of Human Resources and a founding member of Africa Cooperatives Institute of South Africa. He runs a business consulting company and he is also a wellness coach.

His Master’s in Operations Management was on Quality Management on Furniture Manufacturing SMEs (Small Medium Enterprises). His interest in research is multidisciplinary. He focuses on knowledge management in SMMEs, service and product quality and the Fourth Industrial Revolution (Artificial Intelligence and Big Data) for SMEs. He published numerous articles at international conferences, which are indexed by Scopus. On numerous accounts, he served as a Session Chair at international conferences; he reviews conference papers to ensure the quality of work published by international conferences and he served as a Track Chair. With his research, he was classified as a distinguished speaker in one of the international conferences held at Bangkok, Thailand. Through academic work, he travelled several countries abroad, such as Detroit and Washington in the United States of America, and Rotherham, Bristol and Oxford in the United Kingdom. He visited Botswana and Zambia through the Africa-by-Bus project, which is an initiative by the University of Johannesburg.

Mr Lawrance Seseni is a Golden Key member, an international society that honours outstanding academic achievement. Lastly, he is currently establishing a travel and accommodation bursary scheme for learners in rural areas.
Dr. Bambang Hengky Rainanto, SPI, MM, CSM, CHRP  
Head of the Department of Tourism  
Institute of Business and Informatics of Kesatuan, Bogor – Indonesia  

Green Marketing Mix as a mediator of environmental factors to create Sustainable Industry Performance in the Hotel Industry  

Bambang Hengky Rainanto completed his studies at Brawijaya University, IPB University, and UTHM in 1993, 2003 and 2022. Since 2004 he has been a lecturer with a scientific focus on marketing management. In 2019 he was appointed Head of the Department of Tourism.  

Apart from being a lecturer, Bambang Hengky Rainanto has been a part of several consultants since 1999. Some of the international institutions that have been clients include: The World Bank (WB), United States Agency for International Development (USAID), Japan International Cooperation Agency (JICA), Japan Bank for International Cooperation (JBIC), Overseas Economic Cooperation Fund (OECF), Islamic Development Bank (IDB), Central Government, Local Government, and Private Enterprises. The highest position during his time as a consultant was as Team Leader for the SPIRIT-Bappenas project which was funded by The World Bank.  

Scientific activities at the International Seminar include: being Chairman of the 10th Indonesian Operation Research Association - International Conference in Global Optimization and Its Applications (IORA - ICoGIA) -2021, Keynote speaker at Public Lecture organized by Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ) - 2021, Keynote speaker at International Career, International Education Service (IES) - 2021, Keynote speaker at Vocational Studies in the World (Asia & Europe) - 2020, Keynote speaker at The Cross-border Joint Research Project on Marketing Transfer of Japanese Corporation to Asia at Hosei Business School, Hosei University, Tokyo, Japan -2014.  

ID 53  Thinking online assessments to uphold quality and academic integrity-Lessons from Covid-19 Pandemic  
Obianuju. E. Okeke-Uzodike, Faculty of Management Sciences, Department of Applied Management, Durban University of Technology, Riverside Campus, Pietermaritzburg, KwaZulu-Natal, South Africa  

11:00 – 11:20 am (Thursday, April 7)  

Prof. Vincent Onodugo, PhD, FCAI, FIIA, FNIM  
Professor of Management  
Dean, Faculty of Business Administration  
University of Nigeria, Enugu Campus  
Nigeria  

Vincent Onodugo, is a Professor of Management and the currently the Dean, Faculty of Business Administration at the University of Nigeria, Enugu Campus. He is an alumnus of University of Port-Harcourt, University of Nigeria, Nsukka and Haggai Leadership Institute, Maui, Hawaii, USA. He is an organisation and human development consultant and researcher of over twenty years experience. Inter alia, he teaches Research Methodology, Entrepreneurship and Small Business Management, Project Management and Diversity Management. He has over 65 peer reviewed publications in national and international journals. He is a peer reviewer in Cities and Heliyon (published by Elsevier) and Sage Open (published by Sage) journals among others. He is currently the Editor-in Chief of Nigerian Journal of Management Research (NJMR) and a member of the editorial team of Academy of Strategic Management Journal (ASMJ). He has attended over 100 workshops and conferences and presented over 350 papers in the process. He has conducted research supervised by Institute of Development Studies, Geneva. He has consulted for the World Bank, UNIDO, PATHS, USAID MARKET, SPARC, DFID, USAID, UNICEF, EU, AFRODAD, GLOBIM, Central Bank of Nigeria (CBN) and National Planning Commission. He is an Associate Research Fellow of African Institute for Applied Economics (now Afriheritage Institution), Enugu and Institute of Development Studies of the University of Nigeria. He is also a fellow of Nigeria Institute of Management, Fellow of the Institute of Corporate Administration of Nigeria, Fellow of Institute of Industrial Administration and Member, Mandatory Continuous Professional Education Committee (MCPE) of ICAN. He holds a Master’s and Doctorate degrees in the field of Management. He is a certified SAP and Debt Management Consultant. He is currently working on two key areas: Entrepreneurship Education and employment generation among the youths; and Exploration of the factors responsible for the high mortality of family-owned businesses in Nigeria.  

Global Supply Chain and Logistics - II  
Session Chair: Dr. Ratri Parida  
2:30 – 4:00 pm (Thursday, April 7) – Room 1  

2:30 – 2:50 pm (Thursday)
Dr. Ratri Parida  
Associate Professor  
IMT Ghaziabad, India  
Visiting Research Fellow  
Guildhall School of Business and Law (GSBL)  
London Metropolitan University  
London, UK  

Topic: Supply Chain Finance: Insights and Research Opportunities

Dr. Ratri Parida is an Associate Professor in the area of Operations and Supply Chain Management at Institute of Management Technology (IMT) Ghaziabad and also a Visiting Research Fellow at Guildhall School of Business and Law, London Metropolitan University. She was one of the founding faculty members at Indian Institute of Management (IIM) Sambalpur. She was associated with premier institutes like International School of Business and Media (ISBM), Pune, National Institute of Construction Management and Research (NICMAR), Pune and Vellore Institute of Technology (VIT), Vellore. She completed PhD from the Department of Industrial and Systems Engineering, Indian Institute of Technology (IIT) Kharagpur. She has 10 years of experience in research and teaching. She acts as ad-hoc reviewer in many international journals and conferences. Her research interest focuses specifically on Operations Management, Industry 4.0, Sustainability, Lean and Six Sigma, Ergonomics and Healthcare Supply Chain. She has publications in peer reviewed international journals and international conferences in India and abroad.

2:50 – 3:10 pm (Thursday)

Abdul Sattar Safaei, PhD  
Associate Professor, Sustainable Supply Chain, Founder of Infinite Booster  
Babol Noshirvani University of Technology  
Iran

3:10 – 3:30 pm (Thursday)

Hallen-by Guitemberg Lamarque  
Assistant Professor, Infoworld University, Port-au-Prince, Haiti  
Master in Agribusiness Management Student at Rome Business School  
Hallen-by Guitemberg LAMARQUE, Engineer-Agronomist with specialization in Crop Production. Master’s student in Agribusiness Management and Assistant Professor.

Hallen-by G. Lamarque is a young agronomist who works in agriculture, environmental protection, teaching, and business in the agricultural sector in Haiti. In order to obtain his bachelor’s degree in Agricultural Science at “Universite Americaine des Sciences Modernes d’Haiti” (UNASMOH) in 2016, Hallen-by undertook his end of studies project on the Sorghum sector at Thomazeau (Haiti). After obtaining his diploma, he started to work at Promotion for Development (PROMODEV – Haiti) as Agronomist and Youth Coordinator. While working at PROMODEV- Haiti, he also worked at some development project in soil conservation, environmental protection and agriculture in Haiti. Hallen-by has also participated in some interested training like Entrepreneurship, Sustainable development, Seed in agriculture and Climate change and many others. Since 2018, he is lecturer, Assistant professor and Professor in agriculture and agricultural Entrepreneurship at some universities in Port-au-Prince and also have a little experience to work as Co-Consultant. Hallen-by is member of National Association of Haitian Agro-professionals (ANDAH). Currently, he is doing his Master degree online in Agribusiness management at Rome Business School (Italy) and would like to do his doctorate in Agro-economy in the next years.

3:30 – 3:50 pm (Thursday)

Dr. M S Uppin  
Professor and Head  
Department, Industrial & Production Engineering  
P.D.A.College of Engineering, Kalaburagi  
India

Global Supply Chain and Logistics Management

Dr. M S Uppin is currently the Professor and Head of Department, Industrial & Production Engineering, P.D.A.College of Engineering, Kalaburagi. Dr. Uppin has about 34 years of experience in teaching and research. He has guided (02) PhD scholars and (06) are working under him. Dr.Uppin has more than 30 publications in journals and conferences. He has reviewed papers for IJPR and a regular reviewer for IEOM Conferences. As Head of Department he shows keen interest in the activities of IEOM student chapter. His areas of research include Supply Chain and Logistics Management, Industry 4.0, Business Communication, Mechatronics and Manufacturing.
Panel Sessions – IEOM Nigeria Conference  April 5-7, 2022

Panel Sessions

Diversity and Inclusion Panel sponsored by Ford Motor Company

Panel Chair:

Professor Donald M. Reimer
Director of Membership and Chapter Development – IEOM Society
President, The Small Business Strategy Group, Detroit, Michigan, USA
Adjunct Faculty – A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering
Lawrence Technological University, Southfield, Michigan, USA

Donald M. Reimer is an adjunct faculty at the A. Leon Linton Department of Mechanical Engineering in College of Engineering at Lawrence Tech in Southfield, Michigan. He coordinates the Certificate of Entrepreneurial Engineering Skills. Mr. Reimer holds a Bachelor of Science degree in Industrial Management from Lawrence Technological University and a Master of Arts degree in Political Science from University of Detroit Mercy. He is a Certified Management Consultant with over 35 years of experience in working with closely-held businesses. He has taught courses in entrepreneurship, strategic management, corporate entrepreneurship and innovation for engineers. Mr. Reimer is a member of the Lawrence Tech Kern Campus Committee, Coordinator of the Lawrence Tech Innovation Encounter. He is faculty Advisor of the Collegiate Entrepreneurs’ Organization. Mr. Reimer serves as a Kern Fellow of The Kern Family Foundation, Co-Direct of the Coleman Fellows Program, member of the National Collegiate Entrepreneurs’ Organization Faculty Advisory Council and is a member of the American Society of Engineering Education. He has operated his own consulting company – The Small Business Strategy Group for 23 years. He published numerous articles on small business, entrepreneurship and strategic thinking. He has received several awards and recognition by local, state and federal agencies for his work in entrepreneurship and minority business development. Mr. Reimer served as member of the Minority Economic Development Committee of New Detroit. Mr. Reimer is member of the Small Business Advisory Council of the Detroit Regional Chamber of Commerce. Mr. Reimer is a member of Advisory Board of the Milwaukee Junction Small Business Assistance Center. He is also a member of the Applied Innovation Alliance. Mr. Reimer serves as a KEEN Fellow for The Kern Family Foundation and is a member of United States Association of Small Business and Entrepreneurship.

Panel Speaker I

Yazeli Cruz
Medallia Expert Services / Latinx@Medallia Lead
Medallia
Washington, DC, USA

Cruz is the current Latin America Medallia Expert Services Senior Analyst, where she coaches and supports sub-contractors to roll up to accounts and a hundred Medallia software users. She is also the Latinx@Medallia employee resource group lead (ERG). The Latinx@Medallia is an affinity group for employees of Latin American descent and allies. She obtained her bachelor's and master's in Industrial engineering from the University of Puerto Rico at Mayaguez (UPRM). She started her work in diversity and inclusion in 2009 as part of the Industrial and mechanical engineering student mentor association also in UPRM. In 2012, she joined the Applied Optimization Group led by Prof. Mauricio Cabrera-Rios and Prof. Clara Isaza. She participated in research to unlock information about the origins of certain illnesses such as lung cancer and Alzheimer's Disease. Thanks to her work in the Applied Optimization Group, she published a paper in the Journal of Alzheimer's Disease titled: "A Selection of Important Genes and Their Correlated Behavior in Alzheimer's Disease." In addition, she was the only student chosen from Puerto Rico in 2013 to be part of INROADS. This non-profit organization creates pathways to careers for ethnically diverse high school and college students across the United States. She participated in co-ops in both Rockwell Aerospace and Amgen. She has won various awards, including INROADS 2014 Golf scholarship, DiscoverE's 2016 New Face of Engineering: College Edition, College Edition, SACNAS 2016 travel award, and AAAS 2017 Joshua Neimark Travel award recipient. In 2017 she co-founded the grassroots organization called "Copa Solidaria", which aims to help underprivileged people who menstruate. After graduating with her master's in 2018, she became a Technical Analyst for Accenture Federal Services plus service as one of the co-leads of the community outreach committee of the Washington D.C. chapter of Accenture's Hispanic ERG. In 2020, she joined Medallia as a technical senior analyst and liaison between financial services accounts in Latin America. She also became the leader of the Latinx@Medallia ERG. Yazeli continues to service her community by mentoring the next generation of tech employees and supporting Latinx organizations throughout the Americas.

Panel Speaker II

Dr. Bhaskar Bhandarkar
Director General
Institution for Innovation Industrial Engineering and Entrepreneurship India and Former Chairman Indian Institution of Industrial Engineering

Dr. Bhaskar Bhandarkar is Director General of Institution for Innovation Industrial Engineering and Entrepreneurship. He received is BSc from Nagpur University, BTech from JNU New Delhi, MTech from Pune University, MBA (Operation & Marketing) and PhD: BIT, Mesra, Gold Medalist from NCDC, GOI, Ministry of Home affairs. Dr. Bhandarkar has 37 years’ experience in Operations/Refits/Quality Assurance/Manufacturing and Training; Consultant to NITIE Govt. of India, Ministry of Human Resource Development; Chairman, Indian Institution of Industrial Engineering for record eight years; Director General Indian Institution of Industrial Engineering Mumbai, Managing Editor of Industrial Engineering Journal; Member of the Technical Committee Indian Register of Shipping. He served in many international committees including Board Member of Asia Pacific IE and Management Systems Society (APIEMS) , and Program Head: Indo US Science & Technology Forum (workshop). His research interests are servant leadership, safety management, quality management, futuristic SCM and logistic and lean six sigma.

He is a Fellow of Institution of Engineers (India)(FIE), Institution of Marine Engineers (FMarE), and Indian Institution of Industrial Engineering (FIIE).
Dr. Bhandarkar received various awards including Lilian-Gilbert Award, Ramaswami Award, Coal-India Productivity Award, Shiksha-Bhartati Award, Best-Educationalist Award, Distinguished Engineer Awards, Distinguished IEEE Service Award. International recognitions include Production and Operation Management Society (POMS): Recognition on 08th May 2016 at Orlando USA Conference, IEOM at Rabata, Morocco Conference, Advisor IEM, MOST Govt of Taiwan. He served as an Associate Editor of International Journal of Production Research (IJPR) Taylor and Francis. Award Constituted in the Honor of Dr. Bhandarkar include Dr. Bhandarkar Award for First Merit Student, VJTI, Mumbai University and Nagpur University and Cdr Bhandarkar Visionary Leadership Award (For CEOs with outstanding leadership and Visionary Institution Building).

Panel Speaker III

Professor Eldon G. Caldwell Marin, Ph.D., Sc.D, Dr.Ed.
Professor, Industrial Engineering Department
Engineering School
University of Costa Rica
San Jose, Costa Rica

Eldon Caldwell is full professor/Cathedralistics of the University of Costa Rica, Central America; member of the IEOM Society Academy of fellows and member of the IEOM Society Global Council. Also, he has been recognized by the IEOM Society with the “Outstanding Service Award” for his career of over 30 years as an educator, researcher and promoter of development of industrial engineering and as “Distinguished Professor” by IEEE Computer Society, USA.

Dr. Caldwell earned his B.Sc. and Master degree in Industrial Engineering at University of Costa Rica and he earned a Master degree in Service Marketing, as well in Financial Analysis at Interamerican University of Puerto Rico; M.Sc. Health Management Systems at UNED, Costa Rica and a M.Sc. Operations Management at ITESM, Mexico. Finally, he earned three doctoral degrees: 1-Ph.D. in C.Sc. / Industrial Engineering, Autonomous University of Central America; 2- Ph.D. (Sc.D.) in Robotics and Automation, University of Alicante, Spain; and 3-Ph.D. (Dr. Ed.) in Education at the University of Costa Rica, developing the “Theory of Socio-educational Exergy-Anergy and Entropy”.

He is author of many scientific articles and two books: “Marketing of Social Products & Services”, UCR Publications; and “Lean Manufacturing: Fundamentals and techniques for cycle time reduction”, Kaikaku Ins. Press, USA.

Dr. Caldwell served as Director of Industrial Engineering Department at Engineering School of University of Costa Rica, Operations Manager at MASECA, CA; Lean Manufacturing Project Manager at Eaton Corp. Costa Rica, General Manager at Quirós & CIA-Bandag Inc. and General Manager at Lean Systems Intl., USA. He has more than 30 years of experience as advisor and consultant in Operations Management, Lean Manufacturing and Lean Logistics at Interamerican Bank for Development, WHO, UN, World Wide Bank, Coca-Cola, Ministry of Health, Costa Rica, Honduras, Panamá, Costa Rican Institute for Electricity, RTC- Peñ, Young Electrical Signs, Nevada, USA, AirCare Inc., Reno, Nevada, Plan International-Honduras, Bournes Co., DOE Co. and many others. In addition, Dr. Caldwell currently serves as Director of the Central America Robotics and Industry 4.0 Challenge Contest (ROBOTIFEST) and General Manager at Kaikaku Institute Latin America.

Panel Speaker IV

Engr Dr Paul Amaechi Ozor
Head, Department of Mechanical Engineering
University of Nigeria, Nsukka, Nigeria

Engr Dr Paul Amaechi Ozor is the West African Sub-Regional Coordinator of Industrial Engineering and Operations Management Society International. He holds a bachelor's degree in Mechanical/Production Engineering from the Enugu State University of Science and Technology as well as Masters and PhD in Industrial Engineering and Management from the University of Nigeria, Nsukka. Dr Ozor had been a Project Manager in a reputable Engineering company in Nigeria for many years. He had been a faculty member of University of Nigeria Nsukka since 2009, and has served the Department of Mechanical Engineering and Faculty of Engineering in various capacities prior to his appointment as the head of Department of Mechanical Engineering in August 2021. Dr Ozor is a Scholar of the Association of Commonwealth Universities (ACU), and a fellow of The World Academy of Science. He is a fellow of the global excellence stature (GES) of the University of Johannesburg. He is currently serving as a Senior Research Associate of the University. As a speaker and participant in international conferences, seminars and workshops, he has visited several countries on research grounds. Dr Ozor has published research articles in many peer reviewed local and international Journals and conference proceedings. He has supervised significant local and international postgraduate students to successful study completion. He is an external examiner to University of the Witwatersrand, South Africa. He is a member of the Nigeria Society of Engineers (NSE) and registered with the Council for the Regulation of Engineering in Nigeria (COREN). His research interest is not limited to Asset Management, Quality, Operations Management, Reliability Engineering, Environmental Influence, Sustainable materials, lean six sigma, smart manufacturing.

Submissions Received from Countries and Territories

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# Parallel Sessions

**All Times are in Nigeria Time**

### Monday, April 4, 2022 (Online)

<table>
<thead>
<tr>
<th>Time</th>
<th>Virtual Room 1</th>
<th>Virtual Room 2</th>
<th>Virtual Room 3</th>
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<tbody>
<tr>
<td>6:00 – 7:45 am</td>
<td>Undergraduate Paper Competition</td>
<td>Graduate Paper Competition</td>
<td>Human Factors and Ergonomics Competition</td>
</tr>
<tr>
<td>8:00 – 9:45 am</td>
<td>Undergraduate Paper Competition</td>
<td>Graduate Paper Competition</td>
<td>Lean Six Sigma Competition</td>
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<tr>
<td>10:00 – 11:45 am</td>
<td>Undergraduate Research Competition</td>
<td>Masters Thesis Competition</td>
<td>Simulation Competition</td>
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<tr>
<td>12:00 – 1:45 pm</td>
<td>Undergraduate Research Competition</td>
<td>Masters Thesis Competition</td>
<td>Supply Chain and Logistics Competition</td>
</tr>
<tr>
<td>2:00 – 3:45 pm</td>
<td>Senior Design Project Competition</td>
<td>Doctoral Dissertation Competition</td>
<td>Poster Competition</td>
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<tr>
<td>4:00 – 5:45 pm</td>
<td>Senior Design Project Competition</td>
<td>Doctoral Dissertation Competition</td>
<td>High School STEM Project Competition</td>
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### Tuesday, April 5, 2022

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<tr>
<th>Time</th>
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<th>Virtual Room 2</th>
<th>Virtual Room 3</th>
<th>Virtual Room 4</th>
<th>Virtual Room 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00</td>
<td>Global Engineering Education I</td>
<td>Humanitarian Supply Chain Management for COVID-19</td>
<td>Quality</td>
<td>Business Mngt</td>
<td>Operations Excellence</td>
</tr>
<tr>
<td>10:00</td>
<td>Global Engineering Education II</td>
<td>Systems Engineering</td>
<td>Lean Six Sigma and Simulation</td>
<td>Case Studies</td>
<td>Engineering Management</td>
</tr>
<tr>
<td>11:45</td>
<td>Welcome Address from Host: Prof. Charles Arzachukwu Igwe, Vice-Chancellor, University of Nigeria, Nsukka, Nigeria</td>
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<tr>
<td>12:00</td>
<td>Keynote I: Opening Keynote: Prof. Abiodun H. Adebayo, Ph.D., Vice-Chancellor, Covenant University, Ota, Nigeria</td>
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<td>12:30</td>
<td>Keynote II: Engr. Emena Simon Obie, Dean, Faculty of Engineering, Professor of Electrical Engineering, University of Nigeria Nsukka, Nigeria</td>
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<td>1:00</td>
<td>Keynote III: Prof. Toyin Ashiru, CEO, Tricontinental Oil, Ikeja, Lagos Nigeria</td>
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<td>1:30</td>
<td>Keynote IV: Engr. Prof. Ojo S.I. Fayomi, Dean, College of Engineering, Bells University of Technology, Ota, Ogun State, Nigeria</td>
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<td>2:00</td>
<td>Keynote V: Dr. M. Joseph Ogunjide, Ph.D.; MBA, Chairman/CEO, Emerald Global Consulting Inc., Farmington Hills, Michigan, USA</td>
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<tr>
<td>3:00</td>
<td>Global Engineering Education III</td>
<td>Environmental Engineering</td>
<td>Energy</td>
<td>Business Mngt</td>
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### Wednesday, April 6, 2022

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>6:00</td>
<td>Innovation and Entrepreneurship</td>
<td>Operations Management</td>
<td>Case Studies</td>
<td>Business Mngt</td>
<td>Case Studies</td>
</tr>
<tr>
<td>8:00</td>
<td>Industry Solutions I</td>
<td>SCM</td>
<td>AI</td>
<td>Business Mngt</td>
<td>Planning and Scheduling</td>
</tr>
<tr>
<td>10:00</td>
<td>Industry Solutions II</td>
<td>Cybersecurity</td>
<td>Case Studies</td>
<td>Business Mngt</td>
<td>SCM and Sustainability</td>
</tr>
<tr>
<td>12:00</td>
<td>Keynote VI: Engr. Taiolu Saad Gidani-wudil FNSE, D., President, Nigeria Society of Engineers</td>
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<td>12:30</td>
<td>Keynote VII: Prof. Dr. Esther T. Akinlabi, Director Pan African University for Life and Earth Sciences Institute (PAULESI), Ibadan, Nigeria</td>
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<tr>
<td>1:00</td>
<td>Keynote VIII: Ing. Prof. Nana Sarfo Agyemang Derkyi, PhD, Dean, School of Engineering, Department of Energy and Petroleum Engineering, University of Energy and Natural Resources, Sunyani, Ghana</td>
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<td>1:30</td>
<td>Keynote IX: Engr Prof. Ederika, C. Ejigwe, Director, Africa Centre of Excellence for Sustainable Power and Energy Development, University of Nigeria Nsukka</td>
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<tr>
<td>2:00</td>
<td>Keynote X: Professor Charles Mbohwa, Ph.D., Pro-Vice Chancellor Strategic Partnerships and Industrialisation, University of Zimbabwe, Harare, Zimbabwe</td>
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<tr>
<td>3:00</td>
<td>Industry Solutions III</td>
<td>SCM</td>
<td>Engineering Education</td>
<td>Construction Management</td>
<td>Project Management</td>
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### Thursday, April 7, 2022

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<tr>
<th>Time</th>
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<tr>
<td>6:00</td>
<td>Global Business Management Education I</td>
<td>E-Business / E-Service</td>
<td>Industry 4.0</td>
<td>Business Mngt</td>
<td>Case Studies</td>
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<tr>
<td>8:00</td>
<td>Global Supply Chain and Logistics I</td>
<td>Data Analytics and OSH</td>
<td>IoT</td>
<td>Business Mngt</td>
<td>Decision Support System</td>
</tr>
<tr>
<td>10:00</td>
<td>Global Business Management Education II</td>
<td>Construction Management</td>
<td>Industry 4.0 in African Context</td>
<td>Case Studies</td>
<td>Waste Management and Climate</td>
</tr>
<tr>
<td>12:00</td>
<td>Keynote XI: Prof. Elizabeth S. Bosire Abenga, Director, Pan African University Institute for Governance, Humanities and Social Sciences (PAUGHSS), Yaounde Cameroon</td>
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<td>12:30</td>
<td>Keynote XII: Prof Keith Carter, Honorary Professor, University of Leicester, United Kingdom</td>
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<td>1:00</td>
<td>Keynote XIII: Engr. Dr Izuochukwu F. Okafor, Director, National Centre for Energy Research and Development, University of Nigeria Nsukka, Nigeria</td>
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<td>1:30</td>
<td>Keynote XIV: Engr Felicia Nnenna Agaba, PhD. FNSE, AIArt, Nigeria Airspace Management Agency, Murtala Muhammed International Airport, Ikeja, Lagos, Nigeria</td>
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<tr>
<td>2:00</td>
<td>Keynote XV: Engr Dr. Mrs. Edith Y. Ishidi, Director of Research, Business Development, Consultancy and Collaboration, Sheda Science and Technology Complex, Federal Ministry of Science, Technology and Innovation, Abuja Nigeria</td>
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<tr>
<td>2:30</td>
<td>Global Supply Chain and Logistics II</td>
<td>Design and Planning</td>
<td>Technology Management and Engineering Economy</td>
<td>Case Studies</td>
<td>Diversity and Inclusion Panel sponsored by Ford Motor Company</td>
</tr>
<tr>
<td>4:00</td>
<td>Conference Awards Ceremony</td>
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### April 4, 2022 (Monday) - Session: 6:00 – 7:45 am

<table>
<thead>
<tr>
<th>Time</th>
<th>Competition</th>
<th>Virtual Room</th>
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<tbody>
<tr>
<td>6:00 – 7:45 am</td>
<td>Undergraduate Paper Competition</td>
<td>1</td>
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<tr>
<td></td>
<td>Judging Committee Chair: Dr. Mizanur Rahman, Universiti Teknologi Malaysia</td>
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<tr>
<td></td>
<td><strong>ID 13</strong> A Proposed Decision Matrix on Student Engagement for Engineering Online Learning using Factor Analysis and Analytical Hierarchy Process</td>
<td></td>
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<tr>
<td></td>
<td>by H. Palacio, Daniella B. Santos, Jeremy V. Santos and Marshal R. Tan at Department of Industrial Engineering University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines.</td>
<td></td>
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<tr>
<td></td>
<td>Gabriel C. Bucu at Department of Industrial Engineering University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines. Department of Industrial and Systems Engineering, De La Salle University, Taft Avenue, Manila, 1002, Philippines.</td>
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<tr>
<td></td>
<td><strong>ID 16</strong> An E-Commerce Marketing Decision Matrix Tool using Consumer-Behavior Analysis during Pandemic</td>
<td></td>
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<tr>
<td></td>
<td>by Jonas M. De Leon, Cliff Van Kristiene B. Laoang, Carl Rovick S. Martinez, Kristian, M. Mahibo, and Gabriel C. Bucu at Department of Industrial Engineering University of Santo Tomas Manila, Philippines.</td>
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<tr>
<td></td>
<td><strong>ID 166</strong> The Influence of Consumer Behavior on Consumer Purchase of Fashion Products (Case Study of Generation Z in Bali)</td>
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<td></td>
<td>by I Nengah Agus Pradytya, Mahir Pradana at Department of Business Administration, Telkom University, Bandung. 40257, Indonesia.</td>
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<td></td>
<td>Mahir Pradana at Department of Business Administration, Telkom University, Bandung, 40257, Indonesia.</td>
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<td></td>
<td><strong>ID 167</strong> The Effect of Service Quality and Brand Image on Repurchase Decision (Case Study International Students in Bandung, Indonesia)</td>
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<td></td>
<td>by Husny Gibriel Musa Saleh, Mahir Pradana at School of Communication and Business, Telkom University.</td>
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<tr>
<td>6:00 – 7:45 am</td>
<td>Graduate Paper Competition</td>
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<td></td>
<td>Judging Committee Chair: Grace Lorraine Intal</td>
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<td></td>
<td><strong>ID 184</strong> Prototyping for an In-month Seed Forecasting System</td>
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<td></td>
<td>by Eric De Vera Reynoso Department of Industrial Engineering and Engineering Management, Mapua University, Manila, Philippines.</td>
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<td></td>
<td>Grace Lorraine Intal at School of Information Technology, School of Industrial Engineering and Engineering Management Mapua University Manila, Philippines.</td>
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<td><strong>ID 188</strong> Proposed Utilities Billing Information Management System using Google Workspace Platform for a Property Management Services Company</td>
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<td>by Francis Lourdan M. Miha at School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines.</td>
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<tr>
<td></td>
<td>Grace Lorraine D. Intal at School of Industrial Engineering and Engineering Management, School of Information Technology, Mapúa University, Manila, Philippines.</td>
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<td></td>
<td><strong>ID 250</strong> Development of Internet of Things Model for Acoustic Maintenance of Boilers</td>
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<td>by S.N. Dhudhi, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa.</td>
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<td>D. V. V. Kallon at Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa.</td>
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<tr>
<td>6:00 – 7:45 am</td>
<td>Human Factors and Ergonomics Competition</td>
<td>3</td>
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<td></td>
<td>Judging Committee Chair: Someshwari Agre</td>
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<td><strong>ID 376</strong> The Relationship of Demographic Factors to the Mental Health of Security Guards and Janitors in the Healthcare</td>
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<td>by Rushtin S. Alberto, Danica D. Apolinair, Jessy Mariel B. Tomboc, and Assoc. Prof. Carlos Ignacio Jr. P. Zugay, Ph.D., PIE, ASEAN Eng, Department of Industrial Engineering, University of Santo Tomas, Manila, Philippines.</td>
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<td></td>
<td><strong>ID 140</strong> Ergonomic Intervention Studies for Productivity Improvement in Small Scale Utensils Manufacturing Industry.</td>
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<tr>
<td></td>
<td>by Veeresh, Student, Industrial &amp; Production Engineering Department, P.D.A. College of Engineering, Kalaburagi, Karnataka, India.</td>
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<td></td>
<td>Qutubuddin S.M., Associate Professor, Industrial &amp; Production Engineering Department, P.D.A. College of Engineering, Kalaburagi, Karnataka, India.</td>
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<td></td>
<td>Kajal, Aishwarya K., Sampati Bai, Students, Industrial &amp; Production Engineering Department, P.D.A. College of Engineering, Kalaburagi, Karnataka, India.</td>
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<td><strong>ID 206</strong> Inter-rater Reliability of Manual Anthropometric Measurement of Students of Tertiary Institution in North-West Nigeria.</td>
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<td></td>
<td>by Ademola James Adeyemi, Department of Mechanical Engineering, School of Industrial Engineering, Waziri Umaru Federal Polytechnic Birnin Kebbi, Kebbi State Nigeria.</td>
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<td>Department of Mechanical Engineering, Usmanu Danfodiyo University, Sokoto, Sokoto State Nigeria.</td>
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<td></td>
<td>Olusegun Isa Lasisi, Muyideen Abdulkadir, Department of Mechanical Engineering, Waziri Umaru Federal Polytechnic Birnin Kebbi, Kebbi State Nigeria.</td>
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<td>Paul Ojile, Department of Architectural Technology, Waziri Umaru Federal Polytechnic Birnin Kebbi, Kebbi State Nigeria.</td>
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</tbody>
</table>

### April 4, 2022 (Monday) - Session: 8:00 – 9:45 am

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<tr>
<th>Time</th>
<th>Undergraduate Paper Competition</th>
<th>Virtual Room</th>
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</thead>
<tbody>
<tr>
<td>8:00 – 9:45 am</td>
<td>Judging Committee Chair: Dr. Mizanur Rahman, Universiti Teknologi Malaysia</td>
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<tr>
<td></td>
<td><strong>ID 171</strong> Analysis of Perception and Acceptance on Telemedicine in a Third World Country: A Case Study in the Philippines</td>
<td></td>
</tr>
<tr>
<td></td>
<td>by Ardvin Kester S. Ong, Yoshiki B. Kurata, Sophia Alessandra D.G. Castro, Jeanne Paulene B. De Leon, Hazel V. Dela Rosa, Alex Patricia J. Tomines, Department of Industrial Engineering, Faculty of Engineering, University of Santo Tomas, Philippines. España Blvd, 1015, Manila, Philippines.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ardvin Kester S. Ong, Yoshiki B. Kurata, School of Industrial Engineering and Engineering Management Mapúa University, Manila, Philippines 658 Muralla St., Intramuros, Manila 1002, Philippines.</td>
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<td></td>
<td><strong>ID 230</strong> Identification of ergonomic risks and postural analysis in small scale industries – a case study of rotary oil mills</td>
<td></td>
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<tr>
<td></td>
<td>by Someshwari Agre, Student, Department of Industrial &amp; Production Engineering, P.D.A. College of Engineering, Kalaburagi, India.</td>
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3rd African Conference
| Time                | Event                                                                 | Room     
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<tbody>
<tr>
<td>8:00 – 9:45 am, MONDAY</td>
<td>Graduate Student Paper Competition</td>
<td>Virtual Room 2</td>
</tr>
<tr>
<td>8:00 – 9:45 am, MONDAY</td>
<td>Lean Six Sigma Competition</td>
<td>Virtual Room 3</td>
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</table>

**April 4, 2022 (Monday) - Session: 10:00 – 11:45 am**

| Time                | Event                                                                 | Room     
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<tr>
<td>10:00 – 11:45 am, MONDAY</td>
<td>Undergraduate Research Competition</td>
<td>Virtual Room 1</td>
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<tr>
<td>ID 240</td>
<td>Promoting of Emotional Intelligence in Enhancing Employability Skills For 21st Century Among Nigerian Technical Education Graduates</td>
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<tr>
<td>ID 247</td>
<td>A study on the assessment of a Proposed Website Application the Block using SWOT Analysis</td>
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<tr>
<td>ID 260</td>
<td>SSTQUAL Model Application: A Comparison of Self-Check-In Kiosks and Counter Check-In in Philippine Airports Integrating Analytical Hierarchy Process (AHP)</td>
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<tr>
<td>ID 373</td>
<td>Occupational accidents due to personal factors and work factors in road work projects in the city of Lima Peru</td>
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<tr>
<td>ID 378</td>
<td>Application of Analytical Hierarchy Process (AHP) Method in the Comparison of Voice/Speech Recognition and Manual Typing</td>
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<tr>
<td>ID 399</td>
<td>Legal Analysis on Indonesia Food Import Policy Review through TPRM WTO to Prevent an International Trade Dispute</td>
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<tr>
<td>ID 124</td>
<td>Urban Resilience and Sustainability Through Regenerative Urban Agriculture</td>
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<tr>
<td>ID 165</td>
<td>Community Perceptions on Public Spaces: A Case of Lilian Ngoyi Square and Street in the City of Tshwane</td>
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<tr>
<td>ID 181</td>
<td>Waste Minimization Through Sustainable Manufacturing</td>
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<tr>
<td>ID 362</td>
<td>Analysis of OEE improvements in Blow Molding Machines in the Plastic Packaging Manufacturing Industry using Six Big Losses and FMEA methods</td>
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</tbody>
</table>
Hasbullah Hasbullah, Lecturer at the Faculty of Industrial Engineering, University Mercu Buana, Jakarta, Indonesia

ID 491 Valuation of Mining Low Coal Calories Using Real Option Analysis
Dewi Tamara, Executive Master Program, Binus Business School, University of Bina Nusantara, Jakarta, Indonesia

ID 195 Leadership Factors Influencing Successful Project Delivery: The case of a South African civil engineering company
Leselja Justice Boshomane, School of Business Leadership, University of South Africa

10:00 – 11:45 am, MONDAY
Simulation Competition
Judging Committee Chair:

ID 24 System Dynamics Modeling and Simulation for Reduction of Scrap and Rework in an Automotive Manufacturing Company
Shelly Mona, Department of Industrial Engineering, Tshwane University of Technology, Pretoria, South Africa

ID 366 System-Based Optimization of Pumping Capacity of Centrifugal Pumps
A. Stuluman, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa

ID 367 FEA of the Fire Fighting High-Pressure Centrifugal Pump via the Naiver-Stokes Equations
T. Zwane, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa

April 4, 2022 (Monday) - Session: 12:00 – 1:45 pm

12:00 – 1:45 pm, MONDAY
Undergraduate Research Competition
Judging Committee Chair: Dr. Mizanur Rahman, Universiti Teknologi Malaysia

ID 42 Comparative Analysis and Evaluation between Traditional and Online Learning in Engineering Education, Focused on Introduction to Engineering
Mary S. Dedel, Daryl N. Magdurulan, Kristian Q. Malaluan and Bea M. Santos, Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines

ID 148 Low-cost Dietary Plan for COVID-19 Immunity Response Using Mixed-Integer Linear Programming
Allia Coleen S. De Leon, Camille T. Ninobla, Naomi Joyce S. Sibal, Krizia Mile Joy B. Yu, and Engr. Gabriel G. Buci, CIE, AAE Department of Industrial Engineering, University of Santo Tomas, Manila, Philippines

ID 234 Improving Service Quality of a Bank in Laguna, Philippines Using Queuing Theory, Simulation, and Analytical Hierarchy Process (AHP).
Madeline Anne Patrice C. Sy, Frankern Luis S. Malabuyoc, Ma. Daniella M. Sobrevilla, and Rianina D. Borres, School of Industrial Engineering and Engineering Management, Mapúa University, Intramuros, Manila, Philippines

ID 443 The digital twin model of vehicle containers to provide an ergonomic handling mechanism
Ahmed M. Abed, Associate prof. at Industrial Engineering Department, Zagazig University, Egypt

ID 494 Covid-19 Pandemic and Identity Negotiation (Phenomenological Study about Mapur’s Social Resilience in Bangka – Indonesia)
Ishkandar Zulkarnain, Department Of Sociology, Universitas Bangka Belitung, Bangka, Indonesia

ID 455 Communication Experience of the Neighborhood Chief in Covid 19 Handling in Kelurahan Pangkalan Mansyur Medan
Michael Jeffri Sinabutar, Department Of Sociology, Universitas Bangka Belitung, Bangka, Indonesia

ID 467 The digital twin model of vehicle containers to provide an ergonomic handling mechanism
Ahmed M. Abed, Associate prof. at Industrial Engineering Department, Zagazig University, Egypt

ID 494 Covid-19 Pandemic and Identity Negotiation (Phenomenological Study about Mapur’s Social Resilience in Bangka – Indonesia)
Ishkandar Zulkarnain, Department Of Sociology, Universitas Bangka Belitung, Bangka, Indonesia

ID 455 Communication Experience of the Neighborhood Chief in Covid 19 Handling in Kelurahan Pangkalan Mansyur Medan
Michael Jeffri Sinabutar, Department Of Sociology, Universitas Bangka Belitung, Bangka, Indonesia
April 4, 2022 (Monday) - Session: 2:00 – 3:45 pm

2:00 – 3:45 pm, MONDAY
Senior Design Competition
Virtual Room 1

Judging Committee Chair:

ID 340  Evaluation of Elements Affecting the Effectiveness of Maintenance Policies Following the ASME Code and Delay Time Model
Christian Ighohor Okonta and Professor Raphael Olumese Edokpia, Ph.D., Department of Industrial and Production Engineering, University of Benin, Edo State, Nigeria

ID 364  Inherent Factors Affecting the Effectiveness of Maintenance Using Root Cause Analysis. A Case Study
Christian Ighohor Okonta and Professor Raphael Olumese Edokpia, Ph.D., Department of Industrial and Production Engineering, University of Benin, Edo State, Nigeria

ID 414  Identification of Ergonomic Risk Factors and Postural Analysis in Electrical Transformer Manufacturing Industry in Karnataka
Vidyadhar G. Biradar, Research Scholar, Industrial and Production Engineering Department, P.D.A. College of Engineering, Kalaburagi, Karnataka, India
Qutubuddin S.M., Associate Professor, Industrial and Production Engineering Department, P.D.A. College of Engineering, Kalaburagi, Karnataka, India.
Hebbal S.S., Principal, P.D.A. College of Engineering Kalaburagi, Karnataka, India.

ID 415  Emperical survey of post-harvest operations constraining Bambara nut utilization
Ikechukwu LEOPARAF. Department of Mechanical Engineering, Michael Okpara University of Agriculture, Umudike, Abia state Nigeria

2:00 – 3:45 pm, MONDAY
Ph.D. Dissertation Competition
Virtual Room 2

Judging Committee Chair:

ID 349  Evaluation of Elements Affecting the Effectiveness of Maintenance Policies Following the ASME Code and Delay Time Model
Christian Ighohor Okonta and Professor Raphael Olumese Edokpia, Ph.D., Department of Industrial and Production Engineering, University of Benin, Edo State, Nigeria

ID 364  Inherent Factors Affecting the Effectiveness of Maintenance Using Root Cause Analysis. A Case Study
Christian Ighohor Okonta and Professor Raphael Olumese Edokpia, Ph.D., Department of Industrial and Production Engineering, University of Benin, Edo State, Nigeria

ID 414  Identification of Ergonomic Risk Factors and Postural Analysis in Electrical Transformer Manufacturing Industry in Karnataka
Vidyadhar G. Biradar, Research Scholar, Industrial and Production Engineering Department, P.D.A. College of Engineering, Kalaburagi, Karnataka, India
Qutubuddin S.M., Associate Professor, Industrial and Production Engineering Department, P.D.A. College of Engineering, Kalaburagi, Karnataka, India.
Hebbal S.S., Principal, P.D.A. College of Engineering Kalaburagi, Karnataka, India.

ID 415  Emperical survey of post-harvest operations constraining Bambara nut utilization
Ikechukwu LEOPARAF. Department of Mechanical Engineering, Michael Okpara University of Agriculture, Umudike, Abia state Nigeria

2:00 – 3:45 pm, MONDAY
Poster Competition
Virtual Room 3

Judging Committee Chair:

ID 363  Implementation of Risk Control Hazards Identification using PDCA Method to Reduce Potential Work Accidents at Tissue Company
Ekalia Yanasari Putri, Master of Industrial Engineering Student, Universitas Mercu Buana, Jakarta, Indonesia
Sawarni Hasibuan, Industrial Engineering Department, Universitas Mercu Buana, Jakarta, Indonesia

April 4, 2022 (Monday) - Session: 4:00 – 5:45 pm

4:00 – 5:45 pm, MONDAY
Senior Design Project Competition
Virtual Room 1

Judging Committee Chair:

ID 394  Artificial Intelligence and Blockchain Technology Method to Design Electric Vehicle Charging Systems
Jung Sein, Shin Dong Ho, Ph.D., PAUL MATH SCHOOL, 12-11, Dowontongmi-gil, Cheongcheon-myeon, Goesan-gun, Chungcheongbuk-do, Republic of Korea

ID 508  Renewable Energy Evaluation
Anas Ali, Michigan Islamic Academy, Ann Arbor, Michigan, USA

4:00 – 5:45 pm, MONDAY
Ph.D. Dissertation Competition
Virtual Room 2

Judging Committee Chair:

4:00 – 5:45 pm, MONDAY
High School STEM Project Competition
Virtual Room 3

Judging Committee Chair:

ID 394  Artificial Intelligence and Blockchain Technology Method to Design Electric Vehicle Charging Systems
Jung Sein, Shin Dong Ho, Ph.D., PAUL MATH SCHOOL, 12-11, Dowontongmi-gil, Cheongcheon-myeon, Goesan-gun, Chungcheongbuk-do, Republic of Korea

ID 508  Renewable Energy Evaluation
Anas Ali, Michigan Islamic Academy, Ann Arbor, Michigan, USA

April 5, 2022 (Tuesday)

April 5, 2022 (Tuesday) - Session: 6:00 – 7:45 am

6:00 – 7:45 am, TUESDAY
Healthcare Systems
Virtual Room 1

Session Chair: Olmas Bulan Samosir, Faculty of Economics and Business, Universitas Indonesia

ID 35  Challenges of Implementing Telemedicine in South African Public Healthcare: Gauteng Case Study
Mayyer Ramogayane, Department of Industrial Engineering, University of Johannesburg, Johannesburg, South Africa

Muzi Masilela, Founder, Muluma Engineering Management Consulting, University of Pretoria, Pretoria, South Africa

Dr RE Ngwenya, Consultant Specialist Surgeon & Plastics and Reconstructive Surgeon, Senior lecture, University of Pretoria, Pretoria, South Africa
ID 069  Toward the Achievement of Goal 2 of SDGs: Are Indonesian Children Well Fed? The Impacts of Mother’s Internet Usage and Financial Empowerment on the Infant and Young Child Feeding Practice.
Omas Bulan Samosir, Dinda Srikandi Radjiman, Flora Aninditya, Researcher, Lembaga Demografi Faculty of Economics and Business, Universitas Indonesia.

ID 082  The Role of Quality Family Planning Services in Contraceptive Switching to Long-Acting and Permanent Methods (LAPM)
Anisa R Rahmawati and Omas B Samosir, Faculty of Economics and Business, Universitas Indonesia, Depok, 16424, Indonesia.

ID 084  Health and Socioeconomic Development and Morbidity: A District Case in Indonesia
Wilson Rajagukguk, Faculty of Economics and Business, Universitas Kristen Indonesia, Jl. Mayjen Sutojo No.2, Cawang, Jakarta 13630, Indonesia. John Tampil Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia. Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia.

ID 096  The Impact and Response to the Three Waves of COVID-19 Infections on Healthcare Service Delivery in South Africa
Ngaka Mosia, University of South Africa (Unisa), Johannesburg, South Africa

ID 258  Telehealth and Telemedicine – An Overview
Omolayo M. Ikuwapayi, Sunday A. Afolalu, Joseph F. Kayode, Department of Mechanical and Mechatronics Engineering, Afe Babalola University, Ado Ekiti, Nigeria. Emeka T. Enem, Nochiri, Kayode O. Orowe, Department of Civil Engineering, Afe Babalola University, Ado Ekiti, Nigeria. Ojo P. Bodunde, Department of Mechanical and Automation Engineering, Chinese University of Hong Kong, Shatin, NT, People’s Republic of China.

ID 308  Health Facilities and Competence on Service Quality through the Performance of Health Workers in the Regional General Hospital of Central Mamuju Regency
Radia, Raisjdin Abdullah, Hasmin Tamsah, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimagglalutang, Makassar, Indonesia.

ID 320  Analysis of the Effect of Health Promotion and Personal Hygiene on Covid 19 through Physical Distancing in Central Mamuju Regency

ID 426  Toward the Achievement of Goal 2 of SDGs: Are Indonesian Children Well Fed? The Impacts of Mother’s Internet Usage and Financial Empowerment on the Infant and Young Child Feeding Practice.
Omas Bulan Samosir, Dinda Srikandi Radjiman, Flora Aninditya, Researcher, Lembaga Demografi Faculty of Economics and Business, Universitas Indonesia.

6:00 – 7:45 am, TUESDAY  Operations Research  Virtual Room 2
Session Chair: Vanessa Joyce Encarnacion, University of Santo Tomas, Manila, Philippines

ID 51  A Research Study on the Integration of Linear Programming (LP) from the Overall Equipment Effectiveness (OEE) Machine Performance Evaluation to Maximize Uptime for the Department of B-Mirk Enterprises
Paul Amaechi Ozor, Head, Department of Mechanical Engineering, University of Nigeria Nsukka, Enugu State Nigeria. Professor Charles Mbohwa, Ph.D., Pro-Vice Chancellor Strategic Partnerships and Industrialisation, University of Zimbabwe, Harare, Zimbabwe.

ID 74  Corrective Infrastructure Maintenance Scheduling at Railway Stations: Disruption and Resolution
Aliyu Mani Umar, Abdullhakeem Suleiman, Asiru Mohammed, Adamu Ado Sabari, Department of Civil Engineering, Ahmadu Bello University, Zaria 810107, Nigeria. Yasir Adam Nabbage, Department of Civil Engineering Technology, Federal Polytechnic Bauchi, 740102, Nigeria.

ID 151  Determining Weights of Criteria for Equipment Supplier Selection Process Utilizing Analytic Hierarchy Process
Manlou Agapay-Bigcas, Department of Industrial Engineering, MSEM, Intramuros Manila, Philippines.

ID 152  Determining Weights of Criteria for Equipment Supplier Selection Process Utilizing Analytic Hierarchy Process
Manlou Agapay-Bigcas, Department of Industrial Engineering, MSEM, Intramuros Manila, Philippines.

ID 176  A Research Study on the Integration of Linear Programming (LP) from the Overall Equipment Effectiveness (OEE) Machine Performance Evaluation to Maximize Uptime for the Labeling Department of B-Mirk Enterprises
Vanessa Joyce Encarnacion, Daphne Mae Muyargas, Von Jacob Rivera, Cryzixia Bhene Yulo, Department of Industrial Engineering, Faculty of Engineering, University of Santo Tomas, Manila, Philippines.

ID 214  Development of Flow Shop Scheduling Method to Minimize Makespan Based on Nawaz Enscoare Ham (NEH) & Campbell Dudek and Smith (CDS) Method
Latief Anggar Kumiawan, Farizal, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Jakarta, Indonesia.

ID 370  A Mixed-Integer Robust Programming Model for Reverse Logistics Network Design of Plastic Waste Management in Indonesia
Syifa Nurkamila and Romadhani Ardi, Department of Industrial Engineering, Universitas Indonesia, Depok, West Java, Indonesia.

6:00 – 7:45 am, TUESDAY  Manufacturing and Product Development  Virtual Room 3
Session Chair: Ayuba, Department of Materials and Metallurgical Engineering, Nigerian Army University Biu, Borno State, Nigeria

ID 4  Performance Evaluation of Smart Refractory Furnace Developed for Home and Industrial Applications
Henry Benjamin, Adedotun Adefunmi and Bernard Adaramola, Department of Mechanical & Mechatronics Engineering, College of Engineering, Afe Babalola University, Ado Ekiti, Nigeria.

ID 18  Supply Preparation of Line Production Through Capacity Using Simulation Model in Garment Industry

ID 238  Explicit Microstructural and Properties of Polyvinyl Alcohol/Eggshell Particles as Biodegradable Composites for Packaging Industries
P.A. Ozor, Faculty of Engineering and Built Environment, University of Johannesburg, South Africa. Department of Mechanical Engineering, University of Nigeria, Nsukka, Nigeria. V.S. Agbodion, Faculty of Engineering and Built Environment, University of Johannesburg, South Africa.
Africa Centre of Excellence, ACE-SPED University of Nigeria Nsukka Nigeria.

ID 120 The Evaluation of Technology Implementation to Support Product Development Agility in FMCG Company in Indonesia
Bagus Muhmmad Kartiko, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Kampus UI Depok, 16424, Indonesia.
Novandra Rhezza Pratama, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Kampus UI Depok, 16424, Indonesia.

ID 239 New insights in decoration of Carbon Nanotube for improved electrical conductivity and Thermomechanical properties of polymer nanocomposites
V.S. Aigbodion, Africa Centre of Excellence, ACE-SPED University of Nigeria Nsukka Nigeria.
Department of Metallurgical and Materials Engineering, University of Nigeria, Nsukka, Nigeria.

ID 71 Suitability of Jamata River Sand Deposits for Moulding Operation
Ayuba, Department of Materials and Metallurgical Engineering, Nigerian Army University Biu, Borno State, Nigeria.

6:00 – 7:45 am, TUESDAY Business Management Virtual Room 4
Session Chair: June Levi-Oguike, African Centre of Excellence in Energy for Sustainable Development (ACE-ESD), CST, University of Rwanda; Kigali, Rwanda.

ID 7 The Impact of Marketing in social media On the Purchase Decision of The Fast-Food Consumer.
Pablo Farro-Gómez de la Torre, Matias Zamorano-Ramos, Martin Collao-Díaz, Juan, Quiroz-Flores and Alberto Flores-Pérez, Facultad de Ingeniería y Arquitectura, Universidad de Lima, Lima, Perú.

ID 20 Effect of Celebrity Ambassador's Credibility toward Brand Passion of Wardah Cosmetic Users in Semarang City.
V. Iveney and John Tampil Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia.
Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia.

ID 25 Risky Business: A Real Options Valuation for Biopower Investments in sub-Saharan Africa
June Levi-Oguike, African Centre of Excellence in Energy for Sustainable Development (ACE-ESD), CST, University of Rwanda; Kigali, Rwanda.
Diego Sandoval, African Centre of Excellence in Energy for Sustainable Development (ACE-ESD), CST, University of Rwanda; Kigali, Rwanda.
Etienne Ntagirumugera, African Centre of Excellence in Energy for Sustainable Development (ACE-ESD), CST, University of Rwanda; Kigali, Rwanda.

ID 26 The Effect of Ease of Use of Applications and Promotions on Purchase Decisions at E-Commerce Shoppee.
Aulya Rahman Putri, Department of Business Administration, Telkom University, Bandung, 40257, Indonesia.
Aditya Wardhana, Department of Business Administration, Telkom University, Bandung, 40257, Indonesia.
Mahir Pradana, Department of Business Administration, Telkom University, Bandung, 40257, Indonesia.

ID 27 The Effect of Price, Product Quality, And Quality of Service on Customer Satisfaction of a Noodle Restaurant in Bandung City.
Mery Wahyu Santika, TekTok University, Bandung, 40257, Indonesia.
Aditya Wardhana, Department of Business Administration, Telkom University, Bandung, 40257, Indonesia.
Mahir Pradana, Department of Business Administration, Telkom University, Bandung, 40257, Indonesia.

ID 50 Sales Performance Improvement Strategy through Customer Engagement on Instagram social media.
Krisma Nisha and Eriana Astuty, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Bandung Campus, Bandung, Indonesia.

ID 79 Strategic Branding Maintenance of Microsoft Corporation in Indonesia Case
Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia.
John Tampil Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia.

6:00 – 7:45 am, TUESDAY Service Systems and Management Virtual Room 5
Session Chair: Mary Jane C. Samonte, School Information Technology, Mapua University, Philippines.

José Reyes-Romero, Faculty of Engineering, Universidad Privada del Norte, Lima, Perú.

ID 31 Medical Health Tracking and Medicine Delivery System in Urban City
Mary Jane C. Samonte, School Information Technology, Mapua University, Philippines.
Timothy N. Araña, School Information Technology, Mapua University.
Kevyn John E. Castro, School Information Technology, Mapua University.
Gabrielle Angelina G. Uy, School Information Technology, Mapua University.

ID 278 Clean and Healthy Public Toilet in Amenities Development in Surakarta Tourist Destinations.
Argyo Demartoto, Department of Sociology, Universitas Sebelas Maret, Surakarta, Indonesia.
Siti Zunariyah, Department of Sociology, Universitas Sebelas Maret, Surakarta, Indonesia.
Argyo Demartoto, Department of Sociology, Universitas Sebelas Maret, Surakarta, Indonesia.
John Tampil Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia.

ID 295 The Influence of Information and Service Quality on Employee Performance through Supervision Quality at the Department of Energy and Mineral Resources of South Sulawesi Province
Yeni Apriani, Agus budiono, Baharuddin Baharuddin, Gunawan B. Ilyas, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.
Siti Hairani Idrus, Department of Public Administration, Universitas Halu Oleo, Indonesia.
ID 311 The Effect of Parental Knowledge and Environmental Sanitation on Clean and Healthy Life Behavior and Its Impact on Health Quality in Pinrang Regency
Andi Faizia, Syahruddin, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.
Eddyman W. Ferial, Faculty of MIPA, Universitas Hasanuddin, Makassar, Indonesia.
Lukman Yudho Prakoso, Universitas Pertahanan Republik Indonesia, Bogor, Indonesia.
Erens Elvianus Koodoh, Department of Anthropology, Universitas Halu Oleo, Indonesia
Yesi, Department of Sociology, University of Riau, Indonesia.

ID 312 The Effect of Locus of Control and Competency on Medical and Paramedic Functional Performance through Motivation in The Center of Veterines Maros
Gembong Rachmadany, Hendra Gunawan, Muhammad Tarmir, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.
A. Suparlan Isha Syamsu, Pharmacy Department, Universitas Megarezyk, Makassar, Indonesia.

ID 318 Service Quality and Nurse Performance on Patient Loyalty with Patient Satisfaction as Moderation Variables at Lasepang Health Center, Bantaeng Regency
Akbar Arfa, Hasmin Tamsah, Baharudin Baharudin, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.
Yusriady Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimagglatung, Makassar, Indonesia.
Hj. Suhanry Roslan, Department of Sociology, Halu Oleo University, Indonesia.

April 5, 2022 (Tuesday) - Session: 8:00 – 9:45 am

8:00 – 9:45 am, TUESDAY  Global Engineering Education I  Virtual Room 1
Session Chair: Dr Musa-Olokuta, Adekunle Ibrahim

8:00 – 8:20 am (Tuesday, April 5)
Dr Musa-Olokuta, Adekunle Ibrahim
B.Eng (EKSU); M.Eng, PhD (FUNAAB); MNSE, MNlpes, FNIMechE, COREN Regd, FMA, FIPMD, PMP
Mechanical & Industrial Engineer
Specialised on Ergonomics, Human Factor Engineering, Musculoskeletal Disorder and Anthropometric
Department of Mechanical Engineering
Olabisi Onabanjo University
PMB 2002 Ago Iwoye,
Ibogun Campus, Ogun State, Nigeria

8:20 – 8:40 am (Tuesday, April 5)

8:40 – 9:00 am (Tuesday, April 5)
Dr. Okokpujie Imhade Princess
Senior Lecturer/Researcher
Mechanical and Mechatronics Engineering Department
Afe Babalola University
Ado Ekiti State, Nigeria

9:00 – 9:20 am (Tuesday, April 5)
Dr. Shamsuddin Ahmed
Professor Shamsuddin Ahmed PhD (UM), MEng (AIT), BSc Eng (BUET), PgDHRM, CEng(UK), FIEB(Life), MIET(UK),
Department of Mechanical and Production Engineering
Islamic University of Technology (IUT), Dhaka Bangladesh (an organ of OIC)

8:00 – 9:45 am, TUESDAY  Humanitarian Supply Chain Management for COVID-19  Virtual Room 2
Session Chair: Zachary Y. Jara, University of Santo Tomas, Manila, Philippines

ID 89 An Evaluation of the COVID-19 Vaccine Management and Cold Chain Systems of the Five Cities in the National Capital Region of the Philippines
Zachary Y. Jara, Melissa Shaine M. Pajarillaga, Mickaela Mae M. Paña, Zarina Karla B. Posecion, Damirson A. Co, Department of Industrial Engineering, University of Santo Tomas, Manila, Philippines.

Irza Khurun'in, Department of International Relations, University of Brawijaya, Malang, Indonesia.
Kartika Putri Kumalasari, Department of Business Administration, University of Brawijaya, Malang, Indonesia
Genta Mahardhika Rozalina, Department of Sociology, University of Brawijaya, Malang, Indonesia

ID 277 The Challenges, Opportunities, and Strategies to Strengthen the Social Enterprise Resilience during Covid-19 Pandemic (A Case Study of Three Social Enterprise Organizations towards Community Empowerment in Indonesia)

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3rd African Conference
### ID 441  Level of Maintenance Management Practice in Federal Tertiary Institution in Nigeria: A Case Study of University of Lagos.
Ayotunde Anthony Babalola, Department of Quantity Surveying, Federal polytechnic of Ado Ekiti
Akinrata Ebunoluwa Bimbola, Oyeyipo Opeyemi O., Sangowawa Olakitan Olusola, Department of Quantity Surveying, Bells University of Technology Ota.
Ganiyu Olaiya, Department of Building, University of Lagos.

### ID 442  Impact of Crowdfunding on Real Estate Development: Perception of Construction Stakeholders in Nigeria.
Sangowawa Olakitan Olusola, Department of Quantity Surveying, Bells University of Technology, Ota.
Akinrata Ebunoluwa Bimbola, Department of Quantity Surveying, Bells University of Technology, Ota.
Oyeyipo Opeyemi O., Department of Quantity Surveying, Bells University of Technology, Ota.

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**April 5, 2022 (Tuesday) - Session: 10:00 – 11:45 am**

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<td>Professor Christian Amaechi Bolu, FNSE, FAEng</td>
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<td>Engr. Prof. Adagbonyin Moses O. Obiazi</td>
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<td>Ambrose Alli University, Nigeria</td>
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<td>Nouçaiba Sbai</td>
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<tr>
<td>Industrial Engineer and PhD Candidate</td>
<td>Ecole Mohammedia d’Ingénieurs</td>
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<td>Mohammed V University</td>
<td>Rabat, Morocco</td>
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<td>MBA and BA Lecturer</td>
<td>SIST British Education</td>
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<td>Morocco</td>
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<td>Manali Kshirsagar</td>
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<td>Rajiv Gandhi College of Engineering and Research, Wanadongri</td>
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<td>Engr Celestine Nnaemeka Achebe</td>
<td>Lecturer and Researcher in the field of Industrial Engineering and Operations Management</td>
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<td>University of Nigeria, Nsukka</td>
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<tr>
<td>Engr Dr Paul Amaechi Ozor</td>
<td>Head</td>
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<tr>
<td>Department of Mechanical Engineering</td>
<td>University of Nigeria, Nsukka</td>
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<td>Nigeria</td>
<td>Prof Nita Inderlal Sukdeo</td>
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<tr>
<td>Associate Professor and Head</td>
<td>Department in the Department of Quality and Operations Management</td>
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<tr>
<td>School of Mechanical and Industrial Engineering</td>
<td>University of Johannesburg</td>
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<td>South Africa</td>
<td>Enhancing Sustainable Engineering Education and Practice in the Developing Countries Through University-Industry Collaboration: A Nigeria Perspective</td>
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**10:00 – 11:45 am, TUESDAY**

**Systems Engineering**

Session Chair: Mohamed Retima, National School of Mines and Metallurgy L3M-Annaba, Algeria.

- ID 360 A Causal Loop Analysis for Proposed E-waste Financing Schemes in Indonesia
  - Muhammad Irfan Kemal and Romadhan Ardi, Department of Industrial Engineering, Universitas Indonesia, Depok, West Java

- ID 29 Evaluation of Database Management Systems and Techniques Applied in Distributed Systems
  - Mary Jane C. Samonte, School of Information Technology, Mapúa University.
  - Sasty A. Samonte, School of Information Technology, Mapúa University.
  - Antonette D. Gabriel, School of Information Technology, Mapúa University.

- ID 385 Friction and Electrochemical investigation of biomaterials alloys AISI 316L and pure Zn in simulated body fluids
  - Samira Tili, Saida Bouyegh, Hinda Gueroui, Traiaa Noura, Research Center in Industrial Technologies CRTI, P.O. Box 64, Cheraga 16014 Algiers, Algeria
  - Abdelmoumene Guerdi, Infra-Res Laboratory, Department of Mechanical Engineering, University of Souk Ahras, Souk Ahras, Algeria.
  - Mohamed Fouad Assila, Badji Mokhtar University, Annaba, Algeria.

- ID 389 Improvement of biodegradable magnesium-based alloys properties by Ca-P based bioceramics biomimetic deposition
  - Saida Bouyegh and Samira Tili, Research Center in Industrial Technologies CRTI, P.O. Box 64, Cheraga 16014 Algiers, Algeria.
  - Mohamed Retima and Imene Ghezali, National School of Mines and Metallurgy L3M-Annaba, Algeria.

- ID 417 Effects of salt bath nitrocarburizing treatment on microstructure and mechanical properties of 13Cr supermartensitic stainless steel
  - Samira Tili, Saida Bouyegh, Research Center in Industrial Technologies CRTI, P.O. Box 64, Cheraga 16014 Algiers, Algeria.
  - Abdelmoumene Guerdi, Infra-Res Laboratory, Department of Mechanical Engineering, University of Souk Ahras, Souk Ahras, Algeria.
  - Charmati Djihad, Abdessabour Derradj, Mohamed Islam Tili, Badji Mokhtar University, Annaba, Algeria.

- ID 444 The Relationship Between Energy Intensity and GDP per Capita in Eastern African Countries (EAC): Evidence From Co-integration and Granger-Causality Investigation Analysis
  - Desire Sekanabo, Hakizimana Khan Jean de Dieu, African Centre of Excellence in Energy for Sustainable Development, College of Science and Technology, University of Rwanda, KN 73 St, P.O.Box 3900, Kigali, Rwanda
  - Elias Nyandwi, Centre for Geographic Information Systems and Remote Sensing, University of Rwanda (CGIS-UR), College of Science and Technology, KN 73 St, P.O.Box 3900, Kigali, Rwanda.
  - Valerie M. Thomas, H. Milton Stewart School of Industrial and Systems Engineering, and School of Public Policy, Georgia Institute of Technology,

**10:00 – 11:45 am, TUESDAY**

**Lean Six Sigma and Simulation**

Session Chair: Jajat Sudrajat, Binus University Entrepreneurship Study Program, Bandung, Indonesia.

- ID 70 Integration of ABC-XYZ Analysis in Inventory Management Optimization: A Case Study in the Health Industry
  - Zharalin Suryaputri, Djoko Sihono Gabriel, Rahmat Nurcahyo, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia.

- ID 182 Proposed Implementation of The Lean Service using VSM and DMAIC Methods to Increase Productivity in The Procurement of Goods and Services of MRO Companies
  - Sawarni Hasibuan, Industrial Engineering Department, Universitas Mercu Buana, Jakarta, Indonesia.
  - Abebe Shimelis, Addis Ababa university institute of technology, Industrial Engineering.

- ID 146 Accurate Modeling and Simualtion of Boron Diffuion in Textured Solar Cells
  - A. El Boukili, School of Science and Engineering, Al Akhawayn University in Ifrane, Morocco.

**10:00 – 11:45 am, TUESDAY**

**Case Studies**

Session Chair: Muhammad Lukman Hakim, University of Brawijaya, Malang, Indonesia.

  - Jhon Lawrence G. Quimio, Anthony A. Sanchez, Kianna Denise C. Villapando, Mary Christy O. Mendoza, and Rianina D. Borres
ID 249  Elasticity of Labor Demand and Real Wages Rigidity by Sector in West Java province (2000-2020)  

ID 261  The Conflict in the Iron Sand Mining Construction in Yogyakarta (A Study of the Society’s Social Movement Against the Iron Sand Mining Construction Project)  
Muhammad Alhada Fuadllah Habib, Faculty of Economy and Islamic Business, Universitas Islam Negeri Syayid Ali Rahmatullah Tulungagung.  
Asik Putri Ayusni Ratnaningsih, Faculty of Humanities, Universitas Airlangga Surabaya  
Mukhammad Fatkhullah, PT KIang Pertamina Internasional Unit Dumai  
Siti Muslihatul Mukaromah, Madrasah Alijah Negeri 7 Jombang  
Elta Erliyana, Stiamak Barunawati Surabaya.

ID 263  Active Tolerance Among Religious People Based on Local Genius in Social Practices of The Sukodadi Community, Wagir Distric, Malang Regency  
Mohamm Anas, Faculty of Social and Political Sciences, Brawijaya University, Malang, Indonesia.  
Destriana Saraswati, Faculty of Social and Political Sciences, Brawijaya University, Malang, Indonesia.

Arfan Nusi, Department of Philosophy, Islamic State University of Sultan Amal Gorontalo, Indonesia.  
Nurul Ilmi Idrus, Hamka Naping, Department of Anthropology, Hasanuddin University, Makassar, Indonesia.  
Lahaji, Department of Family Law (Ahwalul Syasiah), Islamic State University of Sultan Amal Gorontalo, Indonesia.

ID 265  Trapped in Virtual: Case of Trafficking for Indonesian Girls.  
Anggauwitakranantika, Sunhye Kim, Department of Women Studies, Ewha Woman's University, Seoul, Republic of Korea.

ID 266  Compromise: Social Interactions of Political Elites Build Voter Networks  
Mahatva Yoga Adi Pradana, Sociology Doctor Program, University of Brawijaya.  
Muhammad Lukman Hakim, University of Brawijaya, Malang, Indonesia

10:00 – 11:45 am, TUESDAY  
Engineering Management  
Virtual Room 5  
Session Chair: Ahmad Alzghoul, Data Science Department, Princess Sumaya University for Technology, Amman, Jordan

Reem Adel Abdallah, Department of Industrial Engineering and Engineering Management, University of Sharjah, Sharjah 27272, United Arab Emirates.  
Doraid Dalalah, PhD., Associate Professor, Coordinator of the PhD Program, Department of Industrial Engineering and Engineering Management, University of Sharjah, Sharjah 27272, United Arab Emirates.

ID 115  Heavy Oil Storage Tanks’ Inspection –using Acoustic Emission.  
Yasser Shaban, Department of Mechanical Design Engineering, Helwan University, Cairo, Egypt.  
Mohamed Mounir, Department of Industrial & Management Engineering, Arab Academy for Science, Technology & Maritime Transport, Cairo, Egypt.

ID 160  The Relationship Between Challenges E-Learning and Interaction with Motivation and Satisfaction Amongst Student During Covid-19 Pandemic.  
Linda Theresia, Industrial Engineering Department, Institut Teknologi Indonesia, Indonesia.

ID 173  Relationship Between Aspects of Total Quality Management and the Lecturer Satisfaction in the Era of Independent Learning-Independent Campuses (MBKM) (Case Study in Institut Teknologi Indonesia).  
Yenny Widianty, Linda Theresia, Gadih Ranti, Industrial Engineering Department, Institut Teknologi Indonesia, Indonesia.

ID 205  Towards High-Performance Buildings using IoT and AI technologies: A Comprehensive Review.  
Lama Alhaj Husein, Department of Industrial Engineering and Engineering Management, College of Engineering, University of Sharjah, Sharjah, UAE.  
Prof. Imad Alsyouf, Sustainable Engineering Asset Management (SEAM) Research Group, Department of Industrial Engineering and Engineering Management, College of Engineering, University of Sharjah, Sharjah, UAE.  
Dr. Emad Mushtaha, Department of Architectural Engineering, College of Engineering, University of Sharjah, Sharjah, UAE.  
Dr. Ahmad Alzghoul, Data Science Department, Princess Sumaya University for Technology, Amman, Jordan.

ID 293  Chatbot Platform Selection in Marketplace with AHP-TOPSIS: A Case Study in Indonesia  
Desi Triyana, Armand Omar Moeis, Departement Teknik Industri, Fakultas Teknik, Universitas Indonesia, Depok, Indonesia.

ID 306  Competence and Job Placement on Job Performance through Job Satisfaction in the Office of the XIX Region Land Transportation Management in South Sulawesi  
Mardiana, Baharuddin, Baharuddin Baharuddin, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.  
Firman H, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia.

ID 336  Analysis of Facilities and Infrastructure Management Its Impact on Student Learning Outcomes Through Quality of Learning in the Madrasah Working Group (KKM) State Aliyah Madrasah 1 Bulukumba  
Andi Muhammad Tasmina, Hasmin Tamsah, Mislia, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.  
Misnawati, Sekolah Tinggi Ilmu Hukum Pengayoman, Indonesia.

April 5, 2022 (Tuesday) - Session: 11:45 am – 2:30 pm

Keynote Speakers

11:45 am – 12:00 pm Welcome Address:

Prof. Charles Arizechukwu Igwe  
Vice-Chancellor  
University of Nigeria, Nsukka, Nigeria
12:00 – 12:30 pm Keynote I: Opening Keynote

Prof. Abiodun H. Adebayo, Ph.D.
Vice-Chancellor
Covenant University, Ota Nigeria

12:30 – 1:00 pm Keynote II:

Engr. Prof. Emeka Simon Obe
Dean, Faculty of Engineering
Professor of Electrical Engineering
University of Nigeria Nsukka, Nigeria

1:00 – 1:30 pm Keynote III:

Prof. Toyin Ashiru
CEO
Tricontinental Oil
Ikeja, Lagos Nigeria

1:30 – 2:00 pm Keynote IV:

Engr Prof. Ojo S.I. Fayomi
Dean, College of Engineering
Bells University of Technology
Ota, Ogun State, Nigeria

2:00 – 2:30 pm Keynote V:

Dr. M. Joseph Ogundu, Ph.D., MBA
Chairman/CEO
Emerald Global Consulting Inc.
Farmington Hills, Michigan, USA

April 5, 2022 (Tuesday) - Session: 3:00 – 4:45 pm

3:00 – 4:45 pm, TUESDAY   Global Engineering Education III   Virtual Room 1

Session Chair:

3:00 – 3:20 pm (Tuesday, April 5)

Dr Boitumelo Ramatsetse
Lecturer & Researcher: Engineering Graphics and Design (EGD)
Educational Information and Engineering Technology (EDIET)
Wits School of Education
University of the Witwatersrand
Commissioner: Office of the Presidency
Republic of South Africa

3:20 – 3:40 pm (Tuesday, April 5)

Shailesh Shirguppikar, Ph.D.
Head - Office of International Relations and Education
Rajarambapu Institute of Technology
Rajaramnagar, Maharashtra, India

3:40 – 4:00 pm (Tuesday, April 5)
### Environmental Engineering

**3:00 – 4:45 pm, TUESDAY**

**Virtual Room 2**

**Session Chair:** Jacqueline Chipo Nyamibya, Department of Industrial and Mechatronics Engineering, University of Zimbabwe.

**ID 21** Design and Development of a Bio Coal Pelletizer for Application in Solid Waste Management Technologies

M. Mugoroni, Department of Chemical and Process Systems Engineering, School of Engineering and Technology, Harare Institute of Technology, Zimbabwe

M. M. Manyuchi, Department of Operations and Quality Management, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa.

N. Sukdeo, Department of Operations and Quality Management, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa.

W. Stinner, Germany Biomass Research Center, Leipzig, Germany.

**ID 76** Effects of Sesame Stalk Ash (SSA) as Partial Replacement of Cement in Concrete

I. Belloa, T. A. Sulaiman, M.M. Musa, J.A. Adamu, Department of Civil Eng., Ahmadu Bello University, Zaria, Nigeria.

**ID 77** An Extended Period Analysis Of The Water Pipe Network System In Calabar

Professor Charles Chidozie Nnaji, Ph.D. Department of Civil Engineering, University of Nigeria Nsukka, Enugu State Nigeria, Faculty of Engineering and Built Environment, University of Johannesburg, South Africa.

Nnaji Cyrus Chikwado, Department of Civil Engineering, University of Nigeria Nsukka, Enugu State Nigeria.

**ID 99** An Extended Period Velocity Analysis Of The Water Pipe Network System In Calabar.

Professor Charles Chidozie Nnaji, Ph.D. Department of Civil Engineering, University of Nigeria Nsukka, Enugu State Nigeria, Faculty of Engineering and Built Environment, University of Johannesburg, South Africa.

Nnaji Cyrus Chikwado, Department of Civil Engineering, University of Nigeria Nsukka, Enugu State Nigeria.

**ID 139** Evaluation of Performance of Fixed Dome Biogas Digester Surface Insulated with Mud.

Nwoke Oji Achuka, Ozieko Ifeanyi Chijindu, Ime Chukwuemeka, Ugwu Samson Nnaemeka, Ezenne Gloria Ifoema, Ogwo Vintus, Department of Agricultural and Bioresources Engineering, University of Nigeria Nsukka, Enugu State Nigeria.

Chukwuma Chibundo Emmanuel, Department of Agricultural and Bioresources Engineering, Nnamdi Azikiwe University Awka, Anambra State Nigeria.

**ID 207** Impact of Effective Layout in Reducing Noise Pollution in Birnin Kebbi Central Market in North-West Nigeria.


Ademola James Adeyemi, Department of Mechanical Engineering, Usmanu Danfodiyo University Sokoto, Sokoto State Nigeria.

**ID 397** Design of an Electromagnetic Suspension and Regenerative Braking System for Electricity Generation

Zibusiso Jila Dube and Mufaro Kanganga, Department of Industrial and Mechatronics Engineering, University of Zimbabwe

Loice Gudukeya and Nita Inderlal Sukdeo, Quality and Operations Management Department, PhD in Engineering Management.

**ID 398** Creating electrical energy from bacteria: Harare waste water management case study

Jacqueline Chipo Nyamibya and Mufaro Kanganga, Department of Industrial and Mechatronics Engineering, University of Zimbabwe.

Loice Gudukeya and Nita Inderlal Sukdeo, Quality and Operations Management Department, PhD in Engineering Management.

### Energy

**3:00 – 4:45 pm, TUESDAY**

**Virtual Room 3**

**Session Chair:** Mendon Dewa, Department of Industrial Engineering, Durban University of Technology, Durban, South Africa.

**ID 10** The Relationship Between Energy Intensity and GDP per Capita in Eastern African Countries (EAC): Evidence From Co-integration and Granger-Causality Investigation Analysis

Desire Sekanabo, Hakizimana Khan Jean de Dieu, African Centre of Excellence in Energy for Sustainable Development, College of Science and Technology, University of Rwanda, KN 73 St, P.O.Box 3900, Kigali, Rwanda.

Elias Nyandwi, Centre for Geographic Information Systems and Remote Sensing, University of Rwanda (CGIS-UR), College of Science and Technology, University of Rwanda, KN 73 St, P.O. Box 3900, Kigali, Rwanda.

Valerie M. Thomas, H. Milton Stewart School of Industrial and Systems Engineering, and School of Public Policy, Georgia Institute of Technology.

**ID 37** Sustainable Energy consumption in the Industry 4.0 era.
O. Awogbemi, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa.

D. V. V. Kallon, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa.

A. O. Owoputi, Discipline of Mechanical Engineering, University of KwaZulu-Natal, South Africa.

K.G. Mansaray, Faculty of Engineering and Architecture, University of Sierra Leone, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa.

ID 38  Development of an automated coal mine methane extraction system.


Dr Daramy Vandi Von Kallon, Senior Lecturer and Head of Quality Assurance, Mechanical and Industrial Engineering Technology, University of Johannesburg, Johannesburg, South Africa.

ID 100  Estimation of the Moisture Content, Volatile Matter, Ash Content, Fixed Carbon and Calorific Values of Rice Husk Briquettes

Francis Inegbedion and Emmanuel Ikpoza, Department of Production Engineering, University of Benin, Benin City, Nigeria.

ID 112  Energy Generation Potentials from Sawdust Waste (Sawdust Stove and Power Plant).

C.C. Nnaji, Department of Civil Engineering, University of Nigeria, Nsukka, Enugu State, Nigeria, Faculty of Engineering and Built Environment, University of Johannesburg, South Africa.

U.I. Udokpoh, Department of Civil Engineering, Akwa Ibom State University, Ikot Akpaden, Akwa Ibom State, Nigeria.

ID 142  Biomass Resources in Nigeria and the Conversion Pathways

Collins O. Ugwu, Department of Mechanical Engineering, University of Nigeria, Nsukka, 410001, Nigeria.

Paul A. Ozor, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa.

Chigbogu G. Ozoegwu, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa.

Agwu Ndukwe, Department of Mechanical Engineering, University of Nigeria, Nsukka, 410001, Nigeria.

Charles Mbotwa, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa.


Yafiazmi Dhaniswara, Farizal M. Dachyar, Department of Industrial Engineering, Universitas Indonesia, Jakarta, Indonesia.

ID 158  Recent Advances in DC-to-DC Converter Applications in Electric Vehicles


Ifearsi Chineake-Ogbuga and Augustine Aibbo, Department of Electronic Engineering, University of Nigeria, Nsukka, Enugu State, Nigeria.

Cosmas Ogbuka, Department of Electrical Engineering/ Africa Centre of Excellence for Sustainable Power and Energy Development (ACE-SPED), University of Nigeria Nsukka, Enugu State, Nigeria.

ID 177  Comparative analysis of specific energy consumption and energy consumption benchmarking in galvanising plants.

Mendon Dewa, Department of Industrial Engineering, Durban University of Technology, Durban, South Africa.

ID 248  Designing a Domestic Biodiesel Generation Machine for Rural Communities.

O.G. Tiro, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, Johannesburg, South Africa.

A.T. Molale, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, Johannesburg, South Africa.

M. M. Setwaba, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, Johannesburg, South Africa.

O. Awogbemi, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, Johannesburg, South Africa.

ID 38 – 4:45 pm, TUESDAY  Business Management  Virtual Room 4

Session Chair: Tlou Phillemon Mathane, University of Johannesburg, South Africa.

ID 408  The Characteristics of Travellers of Homecoming During the Covid-19 Pandemic in Makassar City.

Hasmar Halim, Basyar Bustam, Department of Civil Engineering, Ujung Pandang State of Polytechnic, Makassar, Indonesia.

Nur Khaerat Nur, Department of civil engineering, Fajar University, Makassar, Indonesia.

Muhammad Isradi, Faculty of Engineering, University Mercu Buana Jakarta, Indonesia.

Joewono Prasetijo, Industri Centre of Excellence for Railway (ICoE-REL), Faculty of Engineering and Technology, Universiti Tun Hussein Onn Malaysia, 84600 Panchor, Johor, Malaysia.

ID 409  The Impact of Implementing Emergency Curriculum on Students' Creativity during Covid-19 Pandemic Learning


ID 410  Village Head Transformational Leadership in Facing the COVID-19 Pandemic

Widharto, Hamidah, Budi Santoso, Rachma Fitriati, Faculty of Economics, Jakarta State University

ID 411  Employee Performance Assessment Using Simple Additive Weighting (Saw) Method.

Hery Mustofa, Syaiful Bakhtri, Universitas Islam Negeri Walisongo Semarang.

ID 47  Smart cities and social justice in Africa: Perspectives from African Local Government Practitioners.

Tlou Phillemon Mathane, Masters Student, University of Johannesburg, South Africa.

ID 78  Strategic Product Sales Performance Analysis: The Case at Unilever Corporation in Indonesia.

Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia.

John Tampil Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia.

Wilson Rajagukguk, Department of Management Faculty of Economics and Business, Universitas Kristen Indonesia, Jakarta, Indonesia.

ID 91  Determining Factors Affecting E-Service Quality for Environmental Permits in Indonesia

Hanoum Salsabila, Djoko Sihono Gabriel, Novandra Rheeza Pratama, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia.

3:00 – 4:45 pm, TUESDAY  Case Studies  Virtual Room 5

Session Chair:

ID 83  Evaluation of Railway Ballast Degradation Using Different Approaches
ID 138  Automatic Agile Transformation with Approach by Modeling from BPMN Collaboration Diagram Model to UML Use Case
Ouzzay RABHI, MATSI Laboratory, EST, Mohammed First University, Oujda, Morocco
Ibtissam ARRASSEN, Laboratory for Computer Science Research Faculty of Sciences, Mohammed First University, Oujda, Morocco
Mohammed ERRAMDANI, Department of EST, Mohammed First University, Oujda, Morocco

Faza Dhora Naulaf, Public Administration Department, Polytechnic of STIA LAN Jakarta, Jakarta, Indonesia
Novy Setia Yunas, Department of Political Science, University of Brawijaya, Malang, Indonesia
Ali Masum, Department of Sociology, Faculty of Social and Political Sciences, University of Brawijaya
Mangku Purnomo, Department of Socio-economics, Faculty of Agricultural, University of Brawijaya
Dewa Agung, Department of History, Faculty of Social and Political Sciences, University of Malang

ID 506  Investigating Gender Justice to the Minorities: The case of Pretty Transpuan in Denpasar, Bali
Nazrinia Zuryani, Department of Sociology at FISIP Udayana University Denpasar, Indonesia

ID 507  Policy Design for Poverty Reduction in Jember Regional Coordinating Body
Solih Mu'adi, Dean of Faculty of Social and Political Sciences, Brawijaya University, Malang, Indonesia
Muhammad Lukman Hakim, A Lecturer of Department of Governmental Science, Brawijaya University & Senior Researcher at the Centre for Policy Studies and Data Analysis (CYDA), Malang, Indonesia
Edy Suprianto, An Alumnus of Doctoral Program in Sociology, Faculty of Social and Political Sciences, Brawijaya University & Researcher at the Centre for Policy Studies and Data Analysis (CYDA), Malang, Indonesia
Syahirul Alim, A Lecturer of Department of Communication Science, Faculty of Social and Political Sciences, Brawijaya University, Malang, Indonesia

ID 334  Reward and Individual Ability on Employee Performance Through Job Satisfaction at the Office of the Human Resources Development Agency of South Sulawesi Province.
Cecilia Hartutik, Nasruddin Nawawi, Mansur Azis, Magister Program, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia.
Mauli Denl, Akademi Maritim Sapta Samudra.

ID 333  The Effect of Compensation and Discipline on Performance Through Employee Work Motivation at the DPRD Secretariat in Soppeng Regency
Heriani, Bahrudin Bahrudin, dan Muhammad Nur Fattah, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.
Mulyati, Politeknik Negeri Media Kreatif, Makassar, Indonesia.
Lery Prasetyo, Metta Puspita Dewi, STAB Negeri Raden Wijaya Wonogiri.

ID 161  Disruptive Technology Selection for Automotive Industry: A Case Study from Indonesia
Fahmi Ramadhan Putra, Novandira Riza Putra, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia.

ID 299  The Effect of Rewards on Personnel Performance Through Training and Professionalism at the South Sulawesi Police Mobile Brigade Unit
Ramli, Hasmin Tamsah, Nasruddin Nawawi, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.
Masriadi Patu, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia.

ID 332  The Effect of Compensation and Discipline on Performance Through Employee Work Motivation at the DPRD Secretariat in Soppeng Regency
Heriani, Bahrudin Bahrudin, dan Muhammad Nur Fattah, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.
Mulyati, Politeknik Negeri Media Kreatif, Makassar, Indonesia.
Lery Prasetyo, Metta Puspita Dewi, STAB Negeri Raden Wijaya Wonogiri.

ID 12  Impact of Authentic-Servant leadership on Trust and Employee Burnout in STEM start-ups during exogenous shocks.
Dr. Divya S, Assistant Professor, VIT Business School, Vellore Institute of Technology, Chennai, India.

ID 273  MOPO'A HUTA RITUAL; The Resistance of Maize Peasants toward Agropolitan Program
Momy A. Hunowu, Department of Sociology, State Islamic University of Sultan Amali, Gorontalo, Indonesia.
Munso Lampse, Nurul Ilmi Idrus, Saffiadi, Department of Anthropology, Hassanuddin University, Makassar, Indonesia.

ID 282  Virtual Tour “Batik Tiga Negeri” As Innovation of Tourism Sustainability During the Outbreak of Covid-19 In Lasem, Rembang, Central Java.
Prisca Kiki Wulandari, Student of National Resilience Science Doctorate Program, University of Gadjah Mada, Lecturer at University of Brawijaya Indonesia.
M. Baiquni, Geography Department, University of Gadjah Mada, Indonesia.

ID 305  The Role of Parents' Knowledge, the Environment on Student Behavior and Its Impact on Dental and Oral Health in the Work Area of the Public Health Center in Central Mamuju.
Ni Putu Hendria Dewi, Hasmin Tamsah, Dari Dari, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

ID 315  Competence and Rewards on Employee Performance through Motivation at the Sultan Daeng Radja Regional General Hospital, Bulukumba Regency.
Tria Haryuni Dammar, Erwin Wijaya, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

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<td>Maintenance Performance Measurement Using Fuzzy Logic and Analytical Hierarchy Process (AHP)</td>
<td>Oleakean Emmanuel Omoniyi and Ayodeji Emmanuel Oluleye, Department of Industrial and Production Engineering, University of Ibadan, Oyo State Nigeria.</td>
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<td>Evaluation of Some Selected Water Producing Companies Using the Data Envelopment Analysis.</td>
<td>Tosin Akintunde, Department of Industrial and Production Engineering, University of Ibadan, Oyo State, Nigeria.</td>
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<td>Supakorn Prapalart, Master Degree Program in Industrial Engineering, Department of Industrial Engineering, Faculty of Engineering, Chiang Mai University, Chiang Mai, Thailand.</td>
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<td>Optimization of Assembly Process in the Production Line to Increase Productivity with the Line Balancing Method in Indonesian Automotive sector.</td>
<td>Andy Kresna, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Jakarta, Indonesia.</td>
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<td>Impoliteness Communication on social media Used by Universitas Iqra Buru Students</td>
<td>Azwan, Susiati, A Yusdiangintenriwi, Ibnu Hajar, Taufik, M Chairul Baqun Umanarais, Risman Iye, Saindra Zuhifqar Bin-Tahir, Literature Faculty of Universitas Iqra Buru, Maluku, 97571, Indonesia.</td>
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<td>377</td>
<td>Study of Application of Energy Transition Policy in Indonesia's Automotive Sector</td>
<td>Annisa Khairani, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia.</td>
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<td>Comparative Analysis of Financial Performance Before and During Covid-19 Pandemic on Property and Real Estate Sector in Indonesia.</td>
<td>Suwino Heriyanto, Management Department, Business School of Banten, Serang Banten. Uli Wildan Nuryanto, Postgraduate Department, University Bina Bangsa, Serang Banten. Ika Pratiwi, Management Department, University Bina Bangsa, Serang Banten. Joni Prihatin, Management Department, University Bina Bangsa, Serang Banten.</td>
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<td>200</td>
<td>The influence of job search activities and evaluation of shortlist of possible jobs on Application Intention.</td>
<td>Dava Arla Gammal Muhammad, Mahendra Fakhr, Syanfuddin Syarfuddin, Anita Silwanita, School of Communication and Business Telkom University.</td>
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<td>201</td>
<td>The Effect of Trust and Expected Outcome on Willingness to Pay on Netflix Services That Will Help Your Business.</td>
<td>Fauzan Faridh Akbar, Mahendra Fakhr, Mah Pradana, School of Communication and Business Telkom University.</td>
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ID 202  The Influence of The Relationship of Curiosity, Museum Attributes, Novelty and Knowledge Seeking as Motivation for Generation Z to Visit Museum. 
Nur’aini Jasril, Nurafni Rubiyanti, Devilia Sari, Mahendra Fakhri, School of Communication and Business Telkom University.

ID 203  The Relationship between Digital Wallet Adoption and Usage to Financial Inclusion. 
Oktarini Riandani, Devilia Sari, Nurafni Rubiyanti, Nadya Karina Moeliono, Mahendra Fakhri, School of Communication and Business Telkom University.

ID 254  The Effect of TikTok Social Media Marketing on Impulse Purchases of Fashion Products with Hedonic Shopping Motivation as the Intervening Variable. 
Rizqi Nurazizah, School of Communication and Business Telkom University.
Marheni Eka Saputri, Department of Business Administration, Telkom University, Bandung, 40257, Indonesia.
Nurafni Rubiyanti, Department of Business Administration, Telkom University, Bandung, 40257, Indonesia.

6:00 – 7:45 am, WEDNESDAY  Case Studies  Virtual Room 5
Session Chair: Nur’aini Inayah, Sebelas Maret University, Surakarta, Indonesia

ID 267  Covid-19 Pandemic and Identity Negotiation (Phenomenological Study about Mapur’s Social Resilience in Bangka – Indonesia)  
Iskandar Zulkarnain, Department of Sociology, Universitas Bangka Belitung, Bangka, Indonesia.
Pardipito Restu Wijaya, Department of Sociology, Universitas Bangka Belitung, Bangka, Indonesia.
Michael Jeffri Sinabutar, Department of Sociology, Universitas Bangka Belitung, Bangka, Indonesia.
Laila Hayati, Department of Sociology, Universitas Bangka Belitung, Bangka, Indonesia.

ID 269  Information Uncertainty during the Indonesian Pandemic: Sociological Perspectives 
Rizki Setiawan, Septi Kuntari, Stevany Afrizal, Department of Sociology Education, University of Sultan Ageng Tirtayasa, Serang, Indonesia.
Musahwi, Department of Sociology of Religion, IAIN Syekh Nurjati, Cirebon, Indonesia.

ID 270  Intersectionality Regulations for Handling Crisis of Women Trafficking during the Pandemic 
Sayuti, Faculty of Sharia, University of Islamic State Sultan Thaha Saifuddin Jambi, Jambi, 36363, Indonesia.
Ghina Nabilah Effendi, Department of Political Science, University of Islamic State Sultan Thaha Saifuddin Jambi, Jambi, 36363, Indonesia.

ID 271  Islamic Boarding Schools and Sanitation Problems 
Dewi Puspita Rahayu, Department of Sociology, Universitas Brawijaya, Malang, Indonesia.

ID 272  Masculinity Representation of BTS Fans Through Instagram social media 
Nur’aini Inayah, Aris Arif Mundayat, Yuyun Sunesti, Master of Sociology, Sebelas Maret University, Surakarta, Indonesia

ID 274  Difable Women: Marginalized Identities 
Varinia Pura Damaiyanti, Department of Sociology, Faculty of Social and Politics, Lambung Mangkurat University, Indonesia.

ID 275  The Power Relation of Rural Government in Developing Indonesian “Unicorn Village”: Study Case of Sleman and Badung. 
Ali Maksum, Department of Government, Faculty of Social and Political Sciences, Brawijaya University, Malang, Indonesia.
Juwita Hayyuning Prastwii, Department of Political Science, Faculty of Social and Political Sciences, Brawijaya University, Malang, Indonesia.
Wida Ayu Puspitosari, Department of Sociology, Faculty of Social and Political Sciences, Brawijaya University, Malang, Indonesia.

April 6, 2022 (Wednesday) - Session: 8:00 – 9:45 am

8:00 – 9:20 am, WEDNESDAY  Industry Solutions I  Virtual Room 1
Session Chair:
8:00 am – 8:20 am (Wednesday, April 6)
Dr. T. Mushiri
Senior Lecturer
Department of Industrial and Mechatronics Engineering
Faculty Research Manager
Faculty of Engineering & the Built Environment (FEBE)
University of Zimbabwe
Mt Pleasant, Harare
ZIMBABWE

8:20 am – 8:40 am (Wednesday, April 6)
Dr. Stanley Chinedum Nwoji
BSc, MBA, MSc (Analytics), PhD
Professor of EBusiness and Entrepreneurship
Harrisburg University of Science and Technology
Harrisburg, PA, USA

Topic: Industry 4.0 Readiness for African Organizations and Universities

8:40 am – 9:00 am (Wednesday, April 6)
Engr. Nnoli Akpedeye FNSE
13th APWEN President

9:00 am – 9:20 am (Wednesday, April 6)
Dr. Kanwalvir Singh Dhindsa
Professor & Head, Department of CSE
Baba Banda Singh Bahadur Engg. College (BBSSEC)
### IEOM Nigeria Conference 3rd African Conference April 5-7, 2022

**PARALLEL SESSIONS**

9:00 am – 9:40 am (Wednesday, April 6)

**8:00 – 9:30 am, WEDNESDAY**

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<td><strong>ID 384</strong></td>
<td><strong>Influencing Factors in the Supply Chain for Selection of Coffee Marketing Patterns Bali Kintamani Coffee</strong></td>
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<td><strong>ID 257</strong></td>
<td><strong>Effectiveness of Cow-Hooves Ash as Partial Replacement of Filler in Hot-Mix Asphalt</strong></td>
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<td>Yusuf Mansur Hashim, Ahmadu Bello University, Zaria</td>
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<td>Tasiu Ashiru Sulaiman, Ahmadu Bello University, Zaria</td>
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<td><strong>ID 351</strong></td>
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<tr>
<td>Muhammad Afkirri, Solihah Titin Sumantii, Abdul Rayyid, Anang Anas Azhar, and Syahrul Abidin, Program Study Communication Science, Faculty of Social Sciences, Universitas Islam Negeri, North Sumatera, Medan, Indonesia</td>
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<tr>
<td><strong>ID 352</strong></td>
<td><strong>Analysis of Factors that Affected Turnover Intention at UD. Tito Medan</strong></td>
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<tr>
<td>Dewi Anggraini, Marketing Management Study Program, Politeknik Cendana, North Sumatera, Indonesia.</td>
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<td>Fahmi Sulaiman, Marketing Management Study Program, Sekolah Tinggi Ilmu Manajemen Sukma, North Sumatera, Indonesia.</td>
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<tr>
<td>Supriyanto, Business Administration Study Program, Politeknik LP3I Medan, North Sumatera, Indonesia.</td>
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<tr>
<td>Budi Hartono, Master in Public Administration, Universitas Medan Area, North Sumatera, Indonesia.</td>
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<td>Agung Sukarya, Public Administration Study Program, Faculty of Social Science and Political Science, Universitas Medan Area, North Sumatera, Indonesia.</td>
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<tr>
<td>Endang Haryanti and Rahma Atwina, Faculty of Psychology, Universitas Medan Area, North Sumatera, Indonesia.</td>
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<tr>
<td><strong>ID 355</strong></td>
<td><strong>Analysis of Communication Management on the Handling of Covid-19 in North Sumatra</strong></td>
</tr>
<tr>
<td>Dedi Syahputra, Taufik Walidayaat, Ilma Saakimah Tamsi, and Ara Azza, Communication Science Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia.</td>
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<tr>
<td>Bahrum Jamil, Beltahmamero Simamora, and Marlina Deliana, Public Administration Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia.</td>
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<tr>
<td><strong>ID 392</strong></td>
<td><strong>Exploration of Medicinal Plants in Pamekasan District: Ethnobotany Study in Herbal Medicine to Prevent Symptoms of Tuberculosis Infection.</strong></td>
</tr>
<tr>
<td>Khoirin Maghfiroh, Department of Biology, Faculty of Mathematics and Natural Sciences, Brawijaya University, Department of Food Science and Technology, Faculty of Agriculture, Yudharta University</td>
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<tr>
<td>Jali Batoro, Sri Widiyati and Suliman Bambang Sumitro, Department of Biology, Faculty of Mathematics and Natural Sciences, Brawijaya University.</td>
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**8:00 – 9:30 am, WEDNESDAY**

<table>
<thead>
<tr>
<th>Artificial Intelligence</th>
<th>Virtual Room 3</th>
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<tbody>
<tr>
<td><strong>Session Chair:</strong> Aaron John V. Boquiren, School of Information Technology, Mapua University, Makati, Metro Manila.</td>
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<tr>
<td><strong>ID 23</strong></td>
<td><strong>Application of Machine Learning Techniques to Predict Some Geotechnical Indices in Ekiti State, Southwestern Nigeria.</strong></td>
</tr>
<tr>
<td>Akinwamide Joshua Tunbosan, Department of Civil Engineering, Faculty of Engineering, The Federal Polytechnic, Ado Ekiti, Ekiti State, Nigeria.</td>
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<tr>
<td>Jacob Odeh Ehiorobo, Ph.D., Osuj Sylveste Olubinna. Ph. D. and Ebuka Nwankwo. Ph.D., Department of Civil Engineering, Faculty of Engineering, University of Benin, Benin City, Edo State, Nigeria.</td>
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<tr>
<td><strong>ID 28</strong></td>
<td><strong>Applying Deep Learning for the Prediction of Retail Store Sales.</strong></td>
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<tr>
<td>Mary Jane Samonte, School of Information Technology, Mapua University.</td>
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<td>Elleline Britanico, School of Information Technology, Mapua University.</td>
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<td>John Emmanuel J. dela Vega, School of Information Technology, Mapua University.</td>
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<tr>
<td>Tia Julienne P. Espejo, School of Information Technology, Mapua University.</td>
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<tr>
<td><strong>ID 180</strong></td>
<td><strong>Tagalog Sentiment Analysis Using Deep Learning Approach with Backward Slang Inclusion.</strong></td>
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<tr>
<td>Aaron John V. Boquiren, Raymond A. Garcia, Chrisrenee Jerard D. Hungria, School of Information Technology, Mapua University, Makati, Metro Manila.</td>
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<tr>
<td><strong>ID 259</strong></td>
<td><strong>A study on AI and ICT for sustainable manufacturing.</strong></td>
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<tr>
<td>Omoaayo M. Ikumapayi, Sunday A. Afolalu, Joseph F. Kayode, Department of Mechanical and Mechatronics Engineering, Afe Babalola University, Ado Ekiti, Nigeria.</td>
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<tr>
<td>Emeka S. Nnochiri, Kayode O. Olowe, Department of Civil Engineering, Afe Babalola University, Ado Ekiti, Nigeria.</td>
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<tr>
<td>Ojo P. Bodunde, Department of Mechanical and Automation Engineering, Chinese University of Hong Kong, Shatin, NT, People's Republic of China.</td>
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**8:00 – 9:30 am, WEDNESDAY**

<table>
<thead>
<tr>
<th>Business Management</th>
<th>Virtual Room 4</th>
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<tbody>
<tr>
<td><strong>Session Chair:</strong> Indhar Wahyu Wira Harjo, Department of Sociology Faculty of Social Sciences and Politics, Universitas Brawijaya, Malang, Indonesia.</td>
<td></td>
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<tr>
<td><strong>ID 252</strong></td>
<td><strong>Application of Machine Learning Techniques to Predict Some Geotechnical Indices in Ekiti State, Southwestern Nigeria.</strong></td>
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</table>
10:00 am - 10:20 am (Wednesday, April 6)

Dr. Lemma Lessa  
Assistant Professor of Information Systems  
School of Information Science  
Addis Ababa University (AAU)  
Ethiopia

10:20 – 10:40 am (Wednesday, April 6)

Dr. Engr. Mohammad Iqbal  
Professor  
Department of IPE  
SUST  
Sylhet, Bangladesh

10:40 – 11:00 am (Wednesday, April 6)

Mr. Keshav Kaushik  
Assistant Professor  
School of Computer Science  
University of Petroleum and Energy Studies  
Dehradun, India

11:00 – 11:20 am (Wednesday, April 6)

Dr. Sam Takavarasha Jr.  
Women’s University in Africa

10:00 – 11:45 am, WEDNESDAY  
Cybersecurity  
Virtual Room 2

Session Chair: Neil Russel D. Ayap, School of Information Technology, Mapúa University, Philippines.

ID 110  
Cyber Security Awareness and Education Framework for Zimbabwe Universities. A Case of National University of Science and Technology  
Belinda Mutunhu, Dr. Sibusisiwe Dube, Nolwazi Ncube and Sizalobuhle Sibanda, Computer Science Department, National University of Science and Technology.

ID 111  
Cyber Security Awareness and Education Framework for Zimbabwe Universities. A Case of National University of Science and Technology  
Belinda Mutunhu, Dr Sibusisiwe Dube, Nolwazi Ncube and Sizalobuhle Sibanda, Computer Science Department, National University of Science and Technology.

ID 113  
Beating the Bait: A Case Study on Phishing Attack.  
Neil Russel D. Ayap, School of Information Technology, Mapúa University, Philippines.  
Arfen Ceniel Y. Dabu, School of Information Technology, Mapúa University, Philippines.  
Alejandro M. Reyes, School of Information Technology, Mapúa University, Philippines.  
Ghizbi P. Trinidad, School of Information Technology, Mapúa University, Philippines.  
Eric B. Blancaflor, School of Information Technology, Mapúa University, Philippines.

10:00 – 11:45 am, WEDNESDAY  
Case Studies  
Virtual Room 3

Session Chair: Krizia Ein Z. Saguibo, Mapúa University, Manila, Philippines.

ID 400  
The Role of Women in Tourism in Sade Village, Lombok, Indonesia  
Deviana Mayasari, Ph. D, Candidate, Sociology Graduate, Faculty of Social and Political Sciences, Brawijaya University, Malang, Indonesia.  
Sanggar Kanto, Siti Kholfah, Bambang Dw Prasetyo, Postgraduate Lecturer in the Faculty of Social and Political Sciences, Brawijaya University, Malang, Indonesia.  
M Chairul Basrun Umanailo, Iqra Buru University, Namlea.

ID 419  
Nicole Louise Josue, Angela Mae B. Urbiztondo, Jonel Miko E. Reyes, Alexandra Isshi V. Villareal, Renz Roniel G. Macatangay and Rianina D. Borres, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines.

ID 420  
Factors Affecting Students’ Performance During Online Classes in Physics Course: A Comparative Analysis on First-Year Engineering Programs of Mapúa, DLSU, and UST.  
Krizia Ein Z. Saguibo, Michelle Catherine A. Santos, Clarice Ann M. Verdeflor, David Jericho B. Villanueva and Rianina D. Borres, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines.

ID 421  
Factors Affecting the Academic Standing in Calculus 2 in the Online Educational Setting: A Comparative Analysis among First Year Civil Engineering, Mechanical Engineering, and Chemical Engineering Students of Mapúa University.  
Eunice Gabrielle A. Reyes, Alfonso Paul B. Bagtas, Gerome Kaye M. Cangco, Robin D. Torres, and Rianina D. Borres, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines.

ID 423  
The Different Factors Affecting Customer Satisfaction on Local Courier Services in the Philippines: A Comparative Analysis between J&T Express, NinjaVan, and JRS Express.  
Angela Jewel Mayoreo, Jeanne Allen P. Galang, Julieth Mae B. Radores, Patrick Kyle C. Medina, and Rianina D. Borres, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines.

ID 424  
Factors Affecting Purchasing Intention of Consumers in E-commerce: A Comparative Analysis Between Shein, Zaful, and Zalora.  
Sachi Liyah S. Bautista, Cedric Vincent L. Chan, Jesslaine Emilie L. Mallen, Fea Claire Plantilla.
10:00 – 11:45 am, WEDNESDAY

**Business Management**

ID 374  The Relationship of Human Capital Management and Productivity in a Construction Company in 2021
Hammer Jose Trujillo-Quiroz, Faculty of Business, Universidad Privada del Norte, Lima, Perú.
Ruth Elizabeth Ortega-Córdova, Faculty of Business, Universidad Privada del Norte, Lima, Perú.
Ralph Jauregui-Amayo, Faculty of Business, Universidad Peruana de Ciencias Aplicadas, Lima, Perú.

ID 401  Community Empowerment and The Economic of Farmers, Menturus Village, Kudu District, Jombang Regency, Through the Use of Agricultural Technology Renewable Energy Based.
Hamdros Sutowiowo and Muhammad Ikhsan Setiawan, Department of Management, Narotama University, Indonesia.
Achmad Muchayian, Department of System Information, Narotama University, Indonesia.
Paisal Halim and Syamsiah Badrudin, Universitas Nasional, Jakarta, Indonesia.

ID 402  E Cities, Sustainable Cities in Indonesia
Muhammad Ikhsan Setiawan, Department of Civil Engineering, Narotama University, Indonesia.
Agus Sukoco and I Nyoman Sudapet, Department of Management, Narotama University, Indonesia.
Dari Harmanto, Aeronautical Engineering at De Montfort University UK.

ID 403  E Desa Smart Economy and Tourism Integration.
I Nyoman Sudapet and Agus Sukoco, Department of Management, Narotama University, Indonesia.
Ronny Durrotun Nasihien and Muhammad Ikhsan Setiawan, Department of Civil Engineering, Narotama University, Indonesia.
Mohd Idrus Mohd Masrin, UTHM Malaysia.

ID 405  The Implication of War on Terror Policy on Human Rights Violations to Uighur’s People in 2018.
Dinda Widiastuti, Gula Ichikaya Mitzi, International Relations Department, Faculty of Social and Political Sciences, Universitas Nasional.

ID 406  Islamophobia in New Zealand: Case Study of The Terrorist Attacks on The Two Christchurch Mosques in 2019.
Risma Eka Putri, Suharto, International Relations Department, Faculty of Social and Political Sciences, National University.

Ichmi Yani Arinda Rohmah, International Relations Department, Faculty of Social and Political Sciences, Universitas Nasional.

10:00 – 11:45 am, WEDNESDAY

**SCM and Sustainability**

ID 375  Assessing the Supply Chain Risk in Indonesian Cosmetic Industry
Tia Atika Putri and Romadhani Ardi, Department of Industrial Engineering, Universitas Indonesia, Depok, West Java.

ID 418  Simulation Model of Cocoa Transportation in Middle Java Indonesia.
Dwi Novrians, PhD student, School of Architecture, Planning and Policy Development, Institut Teknologi Bandung (ITB), Bandung 40132, Indonesia.
Pradono Pradono, Professor, School of Architecture, Planning and Policy Development, Institut Teknologi Bandung (ITB), Bandung 40132, Indonesia.

ID 75  Optimum Gum Arabic Content as Bitumen Modifier in Hot Mix Asphalt.
Suleiman Hassan Otoze, Ahmadu Bello University, Zaria 810107, Nigeria.

ID 164  Social Life Cycle Assessment – A Bibliometric Review.
Marcela Ionne Delgado Armendáriz, Jorge Luis García Alcaraz, Department of Industrial Engineering and Manufacturing, Autonomous University of Ciudad Juarez, Ciudad Juárez 32310, Chihuahua, México.
Adrián Salvador Morales García, José Roberto Díaz Reza, Department of Electric Engineering and Computers Sciences, Autonomous University of Ciudad Juarez, Ciudad Juárez 32310, Chihuahua, México.

ID 204  Reduction of Contamination from Water Using Rainwater Filtration System In NCR, Philippines.

ID 189  Developing Food Safety and Standards of Food Delivery Service in Thailand during the COVID-19 Pandemic
Natissareeya Suksrimuang and Pornthipa Ongkunarak, Department of Agro-Industrial Technology, Faculty of Agro-Industry, Kasetsart University, Bangkok 10900, Thailand.

ID 375  The Developing Key Performance Indicators for Sustainable Supply Chain in Indonesian Fashion Industry
Nora Nisrina and Romadhani Ardi, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia.

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**April 6, 2022 (Wednesday) - Session: 12:00 – 2:30 pm**

**Keynote Speakers**
12:00 - 12:30 pm Keynote VI:

**Engr Tasiu Saad Gidari-wudil FNSE, D.**
President
Nigeria Society of Engineers

12:30 – 1:00 pm Keynote VII:

**Prof. Dr. Esther T. Akinlabi**
Director
Pan African University for Life and Earth Sciences Institute (PAULESI)
Ibadan, Nigeria

1:00 – 1:30 pm Keynote VIII:

**Ing. Prof. Nana Sarfo Agyemang Derkyi, PhD**
Dean, School of Engineering
Department of Energy and Petroleum Engineering
University of Energy and Natural Resources
Sunyani, Ghana

1:30 – 2:00 pm Keynote IX:

**Engr Prof. Emenike. C. Ejioqu**
Director
Africa Centre of Excellence for Sustainable Power and Energy Development
University of Nigeria Nsukka

2:00 – 2:30 pm Keynote X:

**Professor Charles Mbohwa, Ph.D.**
Pro-Vice Chancellor Strategic Partnerships and Industrialisation
University of Zimbabwe
Harare, Zimbabwe

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**April 6, 2022 (Wednesday) - Session: 3:00 – 4:45 pm**

**3:00 – 4:45, WEDNESDAY**

**Industry Solutions III**

**Virtual Room 1**

Session Chair: Engr. Dr. Patrick U. Akpan

3:00 – 3:20 pm (Wednesday, April 6)

Prof. Ogechukwu Nkechinyelu Iloanusi, Ph.D.
Head
Department of Electronics Engineering
University of Nigeria Nsukka

Overcoming the Challenges of a Developing Country to Embracing the Fourth Industrial Revolution: A Case for Nigeria

3:20 – 3:40 pm (Wednesday, April 6)

Engr. Dr. Patrick U. Akpan
Senior Lecturer – Department of Mechanical Engineering, University of Nigeria
Senior Lecturer – Dept. of Mechatronics Engineering, University of Nigeria
Co-Founder/Partner – Comdalytics Nigeria Limited

A Natural Convective Passive Noise Control System for Mini-Generators
3:00 pm – 4:45 pm (Wednesday, April 6)

**Session Chair:** Daniel Lagamang, University of Johannesburg.

**ID 157** Supply Chain Decolonization: An Overview.
Department of Industrial Technology and Packaging, California Polytechnic State University, San Luis Obispo, CA 3407, USA.

**ID 159** Material Flow in Production Process and its Effect on Economic Sustainability.
Adrián Salvador Morales García, José Roberto Díaz Reza, Department of Electric Engineering and Computers Sciences, Autonomous University of Ciudad Juarez. Ciudad Juárez 32310, Chihuahua, México.
Jorge Luis García Alcaraz, Marcela Ivonne Delgado Armendáriz, Department of Industrial Engineering and Manufacturing, Autonomous University of Ciudad Juarez. Ciudad Juárez 32310, Chihuahua, México.
Cuauhtémoc Sánchez Ramírez, Division of Research and Postgraduate Studies, Tecnologico Nacional de México/Instituto Tecnologico de Orizaba, Orizaba 94320, Veracruz, Mexico.

**ID 183** Design of a Risk-Based Vendor Selection Model in The Implementation of VMI in Retail Company.
Rischa Aninditha, Teuku Yuri M. Zagloel, Industrial Engineering Department, Faculty of Engineering, University of Indonesia, Depok, Jawa Barat, Indonesia.

**ID 194** Designing Supplier Partnership Success Factors in the Coal Mining Industry.
Ahmad Ali, Teuku Yuri M. Zagloel, Industrial Engineering Department, Faculty of Engineering, University of Indonesia, Depok, Jawa Barat, Indonesia.

**ID 199** Temperature Influence on the Structure of Vegetables in Cold Supply Chain Management
Siti Aishah Hadawiah Ahmad, Mohd Nizam Ab Rahman and Rizauddin Ramli, Department of Mechanical and Manufacturing Engineering, The National University of Malaysia, Selangor, Malaysia.
Arif Azly Muhamed, Department of Business and Management, University Technology Mara, Selangor, Malaysia.
Hernadewita Hernadewita, Department of Industrial Engineering, Mercu Buana University, Indonesia.
Muhammad Zeeshan Rafique, Department of Mechanical Engineering, The University of Lahore, Punjab, Pakistan.

**ID 232** Supply chain Challenges encountered by Johannesburg Street vendors.
Daniel Lagamang, Talent Tatenda Chingono and C Mbohwa, Department of Quality and Operations Management, University of Johannesburg.

**ID 371** Developing Key Performance Indicators for Supply Chain Resilience in Indonesian Automotive Industry
Sela Diah Kenanga and Romadhani Ardi, Department of Industrial Engineering, Universitas Indonesia, Depok, West Java.

**3:00 – 4:45, WEDNESDAY**

**Engineering Education**

**Virtual Room 3**

**Session Chair:** Celestine Nnaemeka Achebe, University of Johannesburg, South Africa.

I. P. Okokujie, Department of Mechanical and Mechatronics Engineering, Afe Babalola University, Ado Ekiti, Nigeria, Department of Mechanical and Industrial Engineering, Technology, University of Johannesburg, Johannesburg, 2028, South Africa.
A. O. M. Adeoye, Department of Mechanical and Mechatronics Engineering, Afe Babalola University, Ado Ekiti, Nigeria.
E. T. Akinladi, Department of Mechanical Engineering Science, University of Johannesburg, Auckland Park Kingsway Campus, Directorate of Pan African Universities for Life and Earth Institute, PMB 20, Ibadan, Oyo State, Nigeria.
P. N. Openie-Odili, Oil and Gas Industry, Energy Sector.
L. K. Tartibu, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, Johannesburg, 2028, South Africa.

**ID 73** The Philosophy of Integrating Technical Vocational Educational and Training Ecosystem into the Dynamics of Industrial Engineering and Operational Management for Resilient and Sustainable Economic Development.

**ID 94** University-Industry Linkages: The Gateway for Accelerating National Development in Africa.
Edmund Chijioke Okoroigwe, Department of Mechanical Engineering, University of Nigeria Nsukka, Enugu State Nigeria.
Ikechukwu Samuel Agbasi, Cloud Infrastructure Engineering, Amazon Web Services, Virginia USA. Founder @ Nenture LLC - Cloud ML/AI Technologies, Illinois, USA.
Florence Chizoba Okoroigwe, Natural Science Unit, School of General Studies, University of Nigeria Nsukka, Enugu State Nigeria.

**ID 141** Enhancing Sustainable Engineering Education and Practice in the Developing Countries Through University-Industry Collaboration: A Nigeria Perspective
Celestine Nnaemeka Achebe and Paul Amechi Ozor, Department of Mechanical Engineering, University of Nigeria Nsukka, Department of Quality and Operations Management, University of Johannesburg, South Africa.
ID 169  Impact of Personal and Academic Factors on Outcome-Based Education of Third-Year Engineering Students in the University of Santo Tomas Delivered Through Full Online Modality.
Sophia Jayelle P. Dy, Alyanna Micapla T. Lascano, Joshua S. Salvador and Dioschwin N. Sumo, Faculty of Engineering, University of Santo Tomas, Manila, Philippines.

ID 291  Digital Education About Vaccination In Managing The Spread Of Covid-19 In Tawangrejo Village Communities Through Social Media Facebook.
Widowati, Master of Sociology, Sebelas Maret University, Surakarta, Indonesia.
Supriyadi, Department of Sociology, Sebelas Maret University, Surakarta, Indonesia.
Eva Agustinawati, Department of Sociology, Sebelas Maret University, Surakarta, Indonesia.

ID 302  School Environment and Student Discipline on Learning Outcomes through Learning Motivation at Technical Implementation Unit (UPT) State Senior High School (SMAN) 22 Makassar.
Yuspianti, Misia, Gunawan Bata Ilyas, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.
Misnawati, Sekolah Tinggi Ilmu Hukum Pengayoman, Makassar, Indonesia.
Aminin Alwi, Department of History Education, Halu Oleo University, Indonesia.
Burhan, Universitas Bosowa, Indonesia.

ID 331  The Effect of Education and Economic Ability on Elderly Care Through Health Services in the Durikumba Health Center Work Area, Karossa District, Central Mamuju Regency
Alphonsa Sampe, Rasydin Abdullah, Gunawan B. Ilyas, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.
Yusriadi Yusliadi, Sekolah Tinggi Ilmu Administrasi Puangrimagagalatung, Makassar, Indonesia.

ID 342  Impact of variation orders on construction project cost and time
Ulunj Miska and Nokulunga Mashwana University of Johannesburg, Faculty of Engineering and the Built Environment, Department of Construction Management and Quantity Surveying.
Didibhuku Thwala, SARChI in Sustainable Construction Management and Leadership in the Built Environment, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa.

ID 86  Eco-innovation in the Built Environment: A Bibliometric and Systematic Literature Review.
Motheo Meta Tjebane, Innocent Musonda and Adetayo Onososen, Department of Construction Management and Quantity Surveying, University of Johannesburg, Johannesburg South Africa.

ID 150  Appraising the Factors Affecting Maintenance Management Practice of Academic Buildings in Public Tertiary Institutions in Lagos State, Nigeria
Ebunoluwa Akinrata, Bells University of Technology, Ota, Nigeria.

ID 262  User Responses of Agricultural Product Applications in the Era of the Covid-19 Pandemic as Part of a Digital Community
Sociology Study Program, Faculty of Social Sciences and Humanities, State Islamic University Sunan Kalijaga, Yogyakarta, Indonesia.

ID 292  Technical Skills on Patient Satisfaction through Service Quality and Pharmacist Professionalism at The City and Lasepang Health Centers in Bantaeng District, Bantaeng Regency
Irwana, Muhammad Yahya, Trimaya Cahya Mulat, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.
Yusep Mulyani, Universitas Pasundan, Bandung, Indonesia.

ID 304  The Influence of Motivation and Competence on Health Care Quality and its Impact on Patient Satisfaction in Hospital Emergency Room (IGD) in Majene Regency
Tasniah, Matalatta Matalatta, Puromo Purono, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.
Feby Triadi, Sekolah Tinggi Ilmu Administrasi Puangrimagagalatung, Makassar, Indonesia.

3:00 – 4:45, WEDNESDAY  Construction Management  Virtual Room 4
Session Chair: Edoghogho Ogbeifun, Bells University of Technology Ota, Nigeria

ID 33  Impact of variation orders on construction project cost and time
Ulunj Miska and Nokulunga Mashwana University of Johannesburg, Faculty of Engineering and the Built Environment, Department of Construction Management and Quantity Surveying.
Didibhuku Thwala, SARChI in Sustainable Construction Management and Leadership in the Built Environment, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa.

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ID 304  The Influence of Motivation and Competence on Health Care Quality and its Impact on Patient Satisfaction in Hospital Emergency Room (IGD) in Majene Regency
Tasniah, Matalatta Matalatta, Puromo Purono, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.
Feby Triadi, Sekolah Tinggi Ilmu Administrasi Puangrimagagalatung, Makassar, Indonesia.

3:00 – 4:45, WEDNESDAY  Project Management  Virtual Room 5
Session Chair: Edoghogho Ogbeifun, University of Johannesburg, South Africa

ID 446  Ameliorating the Effects of Time Overrun in the Execution of Capital Infrastructure Projects
Edoghogho Ogbeifun, Civil Engineering Department, Faculty of Engineering, University of Jos, Jos, Nigeria.
Jan-Harm C Pretorius, Postgraduate School of Engineering Management, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa.

ID 447  Improving on machine reliability and productivity through data analysis
Patrick Pasiapatorwa, Postgraduate School of Engineering Management, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa.

ID 448  Conversion of Diesel and Petrol Engines to Biogas Engines as an Energy Transition Strategy
Moses Jeremiah Barasa Kabeyi, Department of Industrial Engineering, Faculty of Engineering and the Built Environment, Durban University of Technology, Durban, South Africa.
April 7, 2022 (Thursday)

4th Parallel Sessions: April 7, 2022 (Thursday) - Session: 6:00 – 7:45 am

6:00 – 7:45 am, THURSDAY  
Global Business Management Education I  
Virtual Room 1

Session Chair:

6:00 am - 6:20 am (Thursday, April 7)
6:20 am - 6:40 am (Thursday, April 7)
6:40 am - 7:00 am (Thursday, April 7)
7:00 am - 7:20 am (Thursday, April 7)
7:20 am - 7:40 am (Thursday, April 7)

6:00 – 7:45 am, THURSDAY  
E-Business/E-Service  
Virtual Room 2

Session Chair: Hamza Usman, Faculty of Environmental Technology, Abubakar Tafawa Balewa University, Bauchi, Nigeria

ID 5  
Digital Marketing Strategies to Promote E-commerce: Evidence of SMEs Importing Cosmetics in Peru.

Karla Acuña-Salazar  
Student in International Business and Management, Business Department, Universidad Privada del Norte, Lima, Peru.

Silvana Pacsi-Capche  
Student in International Business and Management, Business Department, Universidad Privada del Norte, Lima, Peru.

Evelin Rondon-Jara  
Doctoral student in Educational Sciences, Master in Educational Management. Professor of the Department of Humanities, Universidad Privada del Norte, Lima, Peru.

ID 39  
Technology Acceptance Model E-learning for Government.

Inayatulloh  
Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia.

Siti Elda Hererra  
Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia.

Prasetya Cahya S  
Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia.

Rivaldy N. Muhammad  
Study Program of Law, Faculty of Law, Social and Political Sciences, Open University, Indonesia.

Deny Jollyta  
Institut Bisnis Dan Teknologi Pelita Indonesia.

Emi Suwarni  
Universitas Teknokrat Indonesia.

ID 41  
Mobile Learning with Augmented Reality to Reduce the Risk of Medical Malpractice

Inayatulloh  
Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia.

Ade Lola Yorita Astru  
Universitas Dinamika Bangsa Jambi.

Ade Fadli Fachrul  
Std Di Al Hikmah, Jakarta, Indonesia.

Sastya Hendri Wibowo  
Informatics Engineering Study Program, Faculty of Engineering, University of Muhmmadiyah Bengkulu, Indonesia.

Rizky Maulana  
Department of Economics, Faculty of Economics and Management, IPB University Bogor, Indonesia.

ID 43  
Collaborative Learning with E-Learning for Higher Education: Conceptual Model.

Inayatulloh  
Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia.

Rozali Toib  
Universitas Muhmmadiyah, Bengkulu, Indonesia.

Destiana Kumala  

ID 172  
The Influence of Social Commerce Construct on Consumer Trust and Purchase Intention (Study on Shopee E-Commerce Users in Indonesia).

Elysabeth  
Department of Business Administration, Telkom University, Bandung, Indonesia.

Nurafni Rubiyanti  
Department of Business Administration, Telkom University, Bandung, Indonesia.

Mahir Pradana  
Department of Business Administration, Telkom University, Bandung, Indonesia.

ID 178  
Analysis of Customer Satisfaction with NPS of Fresh Products E-Commerce Company in Indonesia.
ID 380 Social Media Exposure, Intention Antecedents and Fake News Sharing Behaviour in Abu Dhabi, UAE
Ahmed Hamad Almansoori and Mohd Lizam, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia.
Hamza Usman, Faculty of Environmental Technology, Abubakar Tafawa Balewa University, Bauchi, Nigeria.

Stedicco Anderjovi, Department of Information System, Universitas Islam Negeri Sultan Syarif Kasim Riau, Pekanbaru, Indonesia
Muhammad Luthfi Hamzah, Department of Information System, Universitas Islam Negeri Sultan Syarif Kasim Riau, Pekanbaru, Indonesia
Idria Maita, Department of Information System, State Islamic University of Sultan Syarif Kasim Riau, Pekanbaru, Indonesia
Tengku Khairil Ahsyar, Lecturer, Department of Information System, Universitas Islam Negeri Sultan Syarif Kasim Riau, Pekanbaru, Indonesia

Muhammad Faizan, Novandra Rheeza Pratama, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Kampus UI Depok, Indonesia

Davis Belmiro Satria, Novandra Rheeza Pratama, M. Dachyar, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia

ID 252 Review of Acoustics Technology for Cleaning at Industries
T. Mafokwane, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa
D. V. V. Kalion, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa

ID 11 Ecosystem for 4th Industrial revolution to accelerate Sustainable goals in South African context: A conceptual framework
C. D. Diaele, Department of Psychology, Industrial psychology unit, Rhodes University, Grahamstown, South Africa
M.G. Kanakana-Katumba, Department of Mechanical and Industrial Engineering, Tshwane University of Technology, Tshwane, South Africa
R. W. Maladzhi, Department of Mechanical and Industrial Engineering, University of South Africa, Johannesburg, South Africa
H. Von der Ohe, Department of Mechanical and Industrial Engineering, University of South Africa, Johannesburg, South Africa

ID 145 The Use of E-Governance in Developing Countries: A Case of South Africa during the COVID-19 Pandemic
Lerato Mofokeng, DSI/NRF/Newton Fund Transformative Innovation, Fourth Industrial Revolution and Sustainable Development, University of Johannesburg, Johannesburg, RSA

ID 233 Incorporation of Artificial Intelligence in Eradicating HIV Aids and Cancer
Tanyaradzwa Allan Machakaine, Tatenda Chingono and Charles Mbohwa

ID 390 The Relationship Between Instructional Leadership Style and School Performance Excellence Among Primary Schools in Johor
Gustika Sandra, Sekolah Tinggi Ilmu Hukum Pengayoman, Makassar, Indonesia
Heriadi, Buyung Romadhoni, Gunawan B. Ilyas, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Jeneponto Regency

ID 307 Compensation and Supervision on Job Satisfaction through Work Discipline of Regional Contract Workers at the Regional General Hospital of Central Mamuju Regency
Setyo Bero, Hasmin Tamaah, Purnomo Purnomo, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Armin Anwar, Postdoctoral Program, Universitas Islam Indonesia, Makassar, Indonesia

ID 310 Employee Competence and Innovation on Employee Performance through Compensation Scope of Development Planning Agency at Sub-National Level Bulukumba Regency
Hafsaah, Nasrudin Nawi, Hendra Gunawan, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
M Awaluddin A, Sekolah Tinggi Ilmu Administrasi Puangrimmagalatun, Makassar, Indonesia

ID 313 The Influence of Human Resource Management and the Work Environment on Employee Performance through the Quality of Human Resources at the Regional Secretariat of Bantaeng Regency
Swasti Indasari, Budiman Haruna, Hendra Gunawan, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Zakir Muhammad, Sekolah Tinggi Ilmu Ekonomi Panca Bhakti, Palu, Indonesia

ID 326 The Effect of Training and Competence, Work Discipline on Improving the Performance of State Civil Apparatus at the Regional Secretariat of Jenepongo Regency
Heriadi, Buyung Romadhoni, Gunawan B. Ilyas, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Gustika Sandra, Sekolah Tinggi Ilmu Hukum Pengayoman, Makassar, Indonesia

ID 330 The Influence of Human Resources Competence and Compensation on Job Satisfaction Through Excellent Service at Legaigo Hospital I in East Lwuu Regency
Jamal, Rasyidin Abdullah, Gunawan B. Ilyas, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimmagalatun, Makassar, Indonesia
Dewi Mayangsari, Trunojoyo University, Madura, Indonesia
Yunafathur Rahman, Universitas Negeri Surabaya, Surabaya, Indonesia
Diana Budi Darma, Universitas Negeri Surabaya
ID 332  The Effect of Training and Motivation on Job Satisfaction Through Employee Self-Efficacy at the Regional Secretariat of Bantaeng Regency
Hj. Sr. Ummyati, Matatalatta Matatalatta, Hasmin Tamsah, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Luqmaan Yudho Prakoso, Universitas Pertahanan Republik Indonesia, Bogor, Indonesia
Rahayu Kuswardani, Fithriyyah Indra Nur Abida, Nur Fauzia, Universitas Negeri Surabaya, Indonesia

ID 335  Incentives and Work Ability on Job Satisfaction through Performance
Kasru, Ansar, and Muhammad Nur Fattah, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Lina Marlina, Politeknik Triguna, Tasikmalaya, Indonesia
Gustia Hanri, Universitas PGRI Sumatera Barat, Indonesia
Gabriel Fredi Daar, Universitas Katolik Indonesia Santu Paulus Ruteng, Indonesia
Ni Made Ayu Sulasmini, Bisnis Digital Institut Pariwisata dan Bisnis Internasional, Indonesia

6:00 – 7:45 am, THURSDAY  Case Studies  Virtual Room 5
Session Chair: Momy Hunowu, Universitas Islam Sultan Amai Gorontalo, Indonesia

ID 493  The Effect of Job Stress, Workload, Leadership Style, and the Organizational Environment on the Intention to Quit Working
Auliya Junanda Dahlan and Prama Hayuletra, Postgraduate Student of Business Management Program, Management Department, BINUS Business School Master Program, Bina Nusantara University, Jakarta, Indonesia
Rini Setiowati, Dean of Master Program, Management Department, BINUS Business School Master Program, Bina Nusantara University, Jakarta, Indonesia

ID 495  A Study of LNG as Fuel for Vehicles- A Review
M. B. Kiran, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Energy University, Gandhinagar, INDIA
Lina Marlina, Politeknik Triguna, Tasikmalaya, Indonesia
Gustia Harini, Universitas PGRI Sumatera Barat, Indonesia
Gabriel Fredi Daar, Universitas Katolik Indonesia Santu Paulus Ruteng, Indonesia
Ni Made Ayu Sulasmini, Bisnis Digital Institut Pariwisata dan Bisnis Internasional, Indonesia

ID 456  Strategies for Utilizing Instagram as a Digital Marketing Communication Media in Samudera Kuphi Medan Coffeeshop
Abdul Haris and Effati Juliana Hasibuan, Communication Science Department, Faculty of Political and Social Sciences, Universitas Medan Area, North Sumatera, Indonesia
Siti Hawa Lubis, Magister Psychology, Universitas Medan Area, North Sumatera, Indonesia
Hasrat Effendi Samosir, Da’wah and Communication Faculty, Universitas Islam Negeri Sumatera Utara, Universitas Medan Area, North Sumatera, Indonesia

ID 457  Policies, Roles and Relationships between Village Government and Community in Tourism Management in Situngkir Village, Pangururan District, Toba Samosir Regency, North Sumatra, Indonesia
Agung Suharyanto, Betyab Masitho Patabahra and Adam, Public Administration Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, Indonesia
Amrnansyah Matondang & Syafuddin Ritonga, Communication Science Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia
M. Citra Ramadhun & Anggreni Atmei Lubis, Faculty of Law, Universitas Medan Area, North Sumatera, Indonesia

ID 458  How Media Sees the Brawl between Residents in Belawan, North Sumatra, Indonesia (Case Study)
Dedi Sahputra & Rehia Isabella Karerina Barus, Communication Science Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia
Bahrum Jamil, Indra Muda and Nina Angelia, Public Administration Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia
Niearta Bukit, Management Department, Faculty of Economic, Universitas Sisingamangaraja XII Tapanuli, North Sumatera, Indonesia
Agus Muli, Regional Agency for Language in North Sumatra Province, Agency for Language Development and Cultivation, Ministry of Education, Culture, Research and Technology, North Sumatera, Indonesia

ID 459  Revisiting Indonesian Youth Nationalism in the Indonesia-Malaysia Borderland
Addin Kurnia Putri, Department of Sociology, Universitas Sebelas Maret, Surakarta, Indonesia
Ignatius Agung Satyawan, Department of International Relations, Universitas Sebelas Maret, Surakarta, Indonesia

ID 461  MOPO’A HUTA RITUAL: The Resistance of Maize Peasants toward Agropolitan Program
Momy A. Hunowu, Department of Sociology, State Islamic University of Sultan Amai, Gorontalo, Indonesia
Muns Lampre, Nurul Ilmi Idrus, Safriadi, Departement of Anthropology, Hasanuddin University, Makassar, Indonesia

April 7, 2022 (Thursday) - Session: 8:00 – 9:45 am

8:00 – 9:45 am, THURSDAY  Global SCM I  Virtual Room 1
Session Chair: Ms. Sebonkile Thaba, University of Johannesburg, South Africa
8:00 am - 8:20 am (Thursday, April 7)
Dr. Thobile Yvonne Bhila
Programme Manager
School of Management
University of Johannesburg
South Africa
8:20 am - 8:40 am (Thursday, April 7)
Abdul Sattar Safaei, PhD
Associate Professor, Sustainable Supply Chain, Founder of Infinite Booster
Babol Noshirvani University of Technology
Iran
8:40 – 9:00 am, Thursday, April 7
Ilkay Boduroglu, Ph.D.
CEO + Director of R&D

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Title: Social Economy Value Chain in Agro-processing Sector: The Case of Emerging Argo-processors and Small-Scale Farmers.

8:00 – 9:45 am, THURSDAY

**Data Analytics and OSH**

Session Chair: Mary Jane C. Samonte, School of Information Technology, Mapúa University.

**ID 186** Productivity Prediction of Sea Water Reverse Osmosis Desalination Plant Using Robust Regression.
Ahmed S. Sabry, Department of Industrial and Management Engineering, College of Engineering and Technology, Arab Academy for Science, Technology, and Maritime Transport Alexandria, Egypt.
Yehia M. Youssef, Department of Chemical and Petrochemical Engineering, College of Engineering and Technology, Arab Academy for Science, Technology, and Maritime Transport, Alexandria, Egypt.
Khaled S. El-Kilany, Department of Industrial and Management Engineering, College of Engineering and Technology, Arab Academy for Science, Technology, and Maritime Transport, Alexandria, Egypt.

**ID 122** Prediction of Pneumonic Oxygenation in a PID-embedded Electro-pneumatic Pressure-Controlled Ventilator Device.
Olabunmi Ige, Department of Mechanical & Mechatronics Engineering, Afe Babalola University, Ado Ekiti Nigeria.
Adeodutu Adetunji, Department of Mechanical & Mechatronics Engineering, Afe Babalola University, Ado Ekiti Nigeria.
Samuel Amudipe, Department of Mechanical & Mechatronics Engineering, Afe Babalola University, Ado Ekiti Nigeria.

**ID 32** Highlighting the Challenges of Big Data Analytics Implementation in Mainstream Industries.
Mary Jane C. Samonte, School of Information Technology, Mapúa University.

**ID 365** Implementation of Data Science and Decision Analysis to Determine Shale Gas Sweet Spot Interval.
Muhamad Aditya, Andri D. Setiawan, Armand O. Moeis, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Kampus UI Depok, Depok 16424, Indonesia.

**ID 346** The Effect of Exercise Habits and Low-salt Diet on Blood Pressure Control and Its Impact on The Quality of Life of Hypertensive Patients.
Rahmatwati, Rasjidin Abdullah, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.
Yusriadi Yuswadi, Sekolah Tinggi Ilmu Administrasi Puanangmalatang, Makassar, Indonesia.
Gazali Salim, Universitas Borneo, Tarakan, Indonesia.
Nina Siti Salmaniah Siregar, Communication Science Study Program, Faculty of Political and Social Sciences, Universitas Medan Area, North Sumatera, Indonesia.
Syafiruddin Ritonga, Communication Science Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia.

**ID 357** Factors Influencing the Incidence of Low Birth Weight During the Pandemic at General Hospital West Pasaman.
Dety Afriyanti S, Midwifery Study Program Applied Bachelor Program and Midwifery Profession Faculty of Health Fort De Kock University Bukittinggi City West Sumatra Indonesia.

8:00 – 9:45 am, THURSDAY

**IoT**

Session Chair: Adrian B. Alfonso, School of Information Technology, Mapúa University, Philippines.

**ID 40** Integration Model Social Learning and Learning Management System for SMEs.
Inayatuloh, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia 11480.
Enggal Siwardiningi, Management Department, Binus Business School, Bina Nusantara University, Jakarta, Indonesia.
Maisyarah Rahmi, Islamic Economic Law Department, Faculty of Sharia, Universitas Islam Negeri Sultan Aji Muhammad Idris Samarinda.
Rivaldy H. Muhammad, Study Program of Law, Faculty of Law, Social and Political Sciences, Universitas Indonesia, Kampus UI Depok, Depok 16424, Indonesia.
Deny Jollyta, Institut Bisnis Dan Teknologi Pelita Indonesia.
Siti Elda Hiererra, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia 11480.

**ID 368** Smart City Dimensions, E-Service Quality and Public Satisfaction in UAE: A Confirmatory Factor Analysis.
Hamdan Airshidi and Mohd Lizam, Institute of Business Information Technology, Universiti Tun Hussein Onn Malaysia.
Hamza Usman, Faculty of Environmental Technology, Abubakar Tafawa Balewa University, Bauchi, Nigeria.

**ID 80** Knowledge Management System Model for SMEs Community.
Inayatuloh, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia 11480.
Sugeng Riyanto, STIE Pertwi, Bekasi, Indonesia.
Rozali Toib, Universitas Muhamadiyah, Bengkulu, Indonesia.
Gustianti Edina, Institut Bisnis dan Teknologi Pelita Indonesia.
Hendra Alianto, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia 11480.

**ID 30** Urban Garden Watering System Through Internet-of-Things.
Mary Jane C. Samonte, Doctor of Information Technology, Faculty Member of School of Information Technology, Mapúa University, Makati City, Philippines.
Galo Harold F. Galleguez, School of Information Technology, Mapúa University, Makati City, Philippines.
Francis Jerome A. Garcia, School of Information Technology, Mapúa University, Makati City, Philippines.
Migfred O. Gulle, School of Information Technology, Mapúa University, Makati City, Philippines.
ID 136  TAOAID: Pedestrian Assistance Using Car Motion Detection System.
Gerardine Anne J. Anson, School of Information Technology, Mapua University, Philippines.
Kiel Cedrick T. Hupio, School of Information Technology, Mapua University, Philippines.
Mark Anthony V. Marin, School of Information Technology, Mapua University, Philippines.
James Andrei C. Rivera, School of Information Technology, Mapua University, Philippines.
Mark Vincent M. Pinili, School of Information Technology, Mapua University, Philippines.
Dr. Eric B. Blancacffer, School of Information Technology, Mapua University, Philippines.

ID 137  IoT Based Cubicle Occupancy Indicator for Public Toilets
Adrian B. Alfonso, School of Information Technology, Mapua University, Philippines.
Rainier C. Atizado, School of Information Technology, Mapua University, Philippines.
Angela Mae V. Encinas, School of Information Technology, Mapua University, Philippines.
Deemekki C. Pahayonda, School of Information Technology, Mapua University, Philippines.
Leanne Kirsten G. Samala, School of Information Technology, Mapua University, Philippines.
Dr. Eric Blancaflor, School of Information Technology, Mapua University, Philippines.

ID 251  Concept Development of a Vibration Sensor for Industrial Boilers.
T. Matokwanse, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa.
D. V. V. Kallon, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa.
L. J. Tartibu, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa.

8:00 – 9:45 am, THURSDAY  Business Management  Virtual Room 4
Session Chair: Miguel Antonio Gamarra-Miranda, Faculty of Business, Universidad Privada del Norte, Lima, Peru.

ID 343  The Influence of Professionalism, Competence on Employee Performance Through Education & Training (DIKLAT) in Class I Correctional Center (BAPAS) Makassar.
Agusman, Partono Sumaryo, Nur Naninsih, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.
Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia.

ID 344  The Effect of Training and Incentives on Employee Performance Through Work Productivity at the Health Center in Bissapu Sub-district, Bantaeng Regency.
Vanty Rosanty Djabbar, Nasruddin Nawawi, Hasmin Tamsah, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

ID 347  Analysis of Training and Development on Performance Through Professionalism and Hard Skill Competence for Civil service Police Unit in Jeneponto Regency
Suharnawan, Gunawan B. Ilyas, Syafri Arief, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

ID 348  The Effect of Regional Original Income (PAD), Balancing Funds on Economic Growth through the Human Development Index (IPM) in Central Mamuju Regency
Ahmad Sukri, Baharuddin Baharuddin, and Mansur Azis, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.

ID 350  HR Competence as a Link to the Effect of Strategic Planning on Company Performance.
Wardayani Wardayani, Azhar Masum, Erlna Erlina and Rina Bukit, Faculty of Economy and Businessness, Universitas Sumatera Utara, Medan, Indonesia.
Wardayani Wardayani, Department of Management, Sekolah Tinggi Ilmu Manajemen Sukma, Medan, Indonesia.

ID 361  An Analysis of The Crispy Mushroom Business for Small and Medium-Sized Enterprises (SMEs) In Indonesia.
Ahmad Efendi, Muhammad Rizki, Fitriani Surayya Lubis, Muhammad Isubnai Hadiyl Umam, Ismu Kusumanto, Lianny, Industrial Engineering, Faculty Of Science and Technology, Universitas Islam Negeri Sultan Syarif Kasim Riau, Indonesia.

ID 369  Relationship between Service Quality and Customer Satisfaction in Restaurants in Los Olivos, Peru.
Miguel Antonio Gamarra-Miranda, Faculty of Business, Universidad Privada del Norte, Lima, Peru.
Johsni Rojas-Chávez, Faculty of Business, Universidad Privada del Norte, Lima, Peru.
Ralph Jauregui-Arroyo, Faculty of Business, Universidad Peruana de Ciencias Aplicadas, Lima, Peru.
Evelyn Rondon-Jara, Faculty of Humanities, Universidad Privada del Norte, Lima, Peru.

8:00 – 9:45 am, THURSDAY  Decision Support System  Virtual Room 5
Session Chair: Lina Martina, Politeknik Triguna, Tasikmalaya, Indonesia.

ID 8  Study of Air in a Vehicle Brake System with Ward’s Clustering Method.
Weerachai Khamwiangsa, Department of Industrial Engineering, School of engineering, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand.
Associate Professor Sakon Klongboonjit, Ph.D., Department of Industrial Engineering, School of engineering, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand.

ID 298  The Influence of Democratic Leadership Style on Organizational Culture and Motivation and Its Effects on Employee Performance in the Government of Bantaeng Regency.
Yusrina Restuwati, Andi Rasyid Panaranangi, Baharuddin, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.
Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia.
Eka Suab, Department of Political Science, Universitas Halu Oleo, Indonesia.
Dian Triantia Lestari, Department of Communication Science, Universitas Halu Oleo, Indonesia.
Hasruddin Nur, Department of Sociology University Sawerigading, Indonesia.

ID 300  Improvement of Employee Performance at One Stop Administration Services (SAMSAT) Office in Takalar Regency Through Leadership and Employee Training and Motivation as Mediation Variable
Nasrullah, Baharuddin, Abdul Latief R. Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.
Masriadi Patu, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia.

ID 314  Professionalism Analysis of the Discipline and Performance of Police Officers at Polres Jenesponto
Bakri, Muhammad Aswar, Ansar, Syafri Arief, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.
ID 317  Leadership Style and Organizational Culture on Employee Performance Through Motivation in PT. Angkasa Pura 1 Unit Airport Rescue and Fire Fighting Sultan Hasanuddin Maros International Airport
Farid Mampawa, Hasmin Tamsah, Baharudin Baharudin, Umar Syarifuddin, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.
Rahman, Department of Public Administration, Halu Oleo University, Indonesia.
Gunawan, Department of State Administration, Halu Oleo University, Indonesia.

ID 322  Analysis of Transformational Leadership on Civil Servant Performance through Public Service Motivation and Human Resources Capacity (Study at the Office of the Ministry of Religion, Bulukumba Regency)
Immawan Wahyudi Asbara, Umi Farida, Hasmin Tamsah, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.
Budi Pramono, Universitas Pertahanan Republik Indonesia, Bogor, Indonesia.
Muhammad Nasir, Department of Political Science, Halu Oleo University, Indonesia.

ID 324  Analysis of Electronic Procurement of Goods and Services in Central Mamuju Regency Government.
Muhammad Aswar, Ansar, Hendra Gunawan, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.
Lina Marlina, Politeknik Triguna, Tasikmalaya, Indonesia.

ID 328  The Role of Bureaucracy and Implementation of Educational Policies on Organizational Performance Through Service Quality.
Deona Glory Tandiawa, Akmal Umar, Gunawan B. Ilyas, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.
Lukman Yudho Prakoso, Universitas Pertahanan Republik Indonesia, Bogor, Indonesia.
Ni Luh Supartini, Bisnis Digital Institut Pariwisata dan Bisnis Internasional.
Agung Suharyanto and Baby Masihito Batubara, Public Administration Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia.

April 7, 2022 (Thursday) - Session: 10:00 – 11:45 am

10:00 – 11:45, THURSDAY  Global Business Management Education II  Virtual Room 1
Session Chair: Vincent Onodugo, University of Nigeria, Enugu Campus

10:00 am - 11:45 am

10:00 am - 10:20 am (Thursday, April 7)
Mr. Lawrance Seseni
Lecturer
College of Business and Economics
University of Johannesburg
South Africa

10:20 am - 10:40 am (Thursday, April 7)
Dr. Bambang Hengky Rainanto, SPI, MM, CSM, CHRP
Head of the Department of Tourism
Institute of Business and Informatics of Kesatuan, Bogor – Indonesia

10:40 am - 11:00 am (Thursday, April 7)
Green Marketing Mix as a mediator of environmental factors to create Sustainable Industry Performance in the Hotel Industry

11:00 am - 11:20 am (Thursday, April 7)

11:20 am - 11:40 am (Thursday, April 7)

10:00 – 11:45, THURSDAY  Construction Management  Virtual Room 2
Session Chair: Professor Nita Sukdeo Ph.D., Department of Quality and Operations Management, University of Johannesburg, Johannesburg, South Africa

10:00 am - 11:45 am

10:00 am - 11:40 am (Thursday, April 7)
Prof. Vincent Onodugo, PhD, FCAI, FIIfA, FNIM
Professor of Management
Dean, Faculty of Business Administration
University of Nigeria, Enugu Campus
Nigeria

10:40 am - 11:40 am (Thursday, April 7)
Fahrizal Ardianto, Hasmin Tamsah, Hasniaty, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.
Fahrizal Ardianto, Universitas Iqra Buru.
ID 340 Work Capability with Organizational Culture and Time Management on State Civil Apparatus Performance at the Community and Village Empowerment Service of South Sulawesi Province
Ramlan, Hendra Gunawan, Buyung Romadroni, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.
Luksman Yudho Prakoso, Universitas Pertahanan Republik Indonesia, Bogor, Indonesia.
M. Chairun Basrun Umar, Universitas Iqra Buru

ID 341 Work Discipline and Job Promotion on Employee Performance through Motivation of PT Saptasaritama Makassar.
Suherman, Baharudin Baharuddin, Andi Tenri Fitriyah, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.
Yusradi Yusradi, Sekolah Tinggi Ilmu Administrasi Puangrimagalaltung, Makassar, Indonesia.

ID 413 Outsourcing as a tool to improve management in the construction industry.
Victor Molito, Department of Quantity Surveying and Construction Management, University of Johannesburg, Johannesburg, South Africa.
Professor Clinton Agbavboa Ph.D., Department of Quantity surveying and Construction Management, University of Johannesburg, Johannesburg, South Africa.
Ifije Ohiomah Ph.D., Department of Quality and Operations Management, University of Johannesburg, Johannesburg, South Africa.
Professor Nita Sukdeo Ph.D., Department of Quality and Operations Management, University of Johannesburg, Johannesburg, South Africa.

10:00 – 11:45, THURSDAY Industry 4.0 in African Context Virtual Room 3

Session Chair: Samuel Olufemi Amudipe, Department of Mechanical and Mechatronic Engineering, Afe Babalola University, Ado, Nigeria.

ID 3 Making Africa 4.0: Barrier of Implementing Industry 4.0 in Africa.
Adedotun Adetunna, Department of Mechanical & Mechatronics Engineering, College of Engineering, Afe Babalola University, Ado, Nigeria.
Esther Akinlabi, Pan African University of Life and Earth Science Institute, Ibadan, Nigeria.
Omolayo Ikumapayi, Department of Mechanical & Mechatronics Engineering, College of Engineering, Afe Babalola University, Ado, Nigeria.
Bernard Adaramola, Department of Mechanical & Mechatronics Engineering, College of Engineering, Afe Babalola University, Ado, Nigeria.
Gbenga Adetunna, Department of Library and Information Study, Ekiti State University, Ado, Nigeria.

ID 15 The Impact of Industry 4.0 on the Workforce Within a Business Banking: Projects and Operations Environment.
Jared Lee Subramanien, School of Mechanical, Industrial and Aeronautical Engineering, University of the Witwatersrand, Johannesburg, South Africa.
Bernadette Sunjka, School of Mechanical & Industrial Engineering, University of Witwatersrand, Johannesburg, South Africa.

ID 17 Commercial Segment Competitiveness in a Market Disrupted by Digital Banks in Africa.
Lebohang Tshabalala, School of Mechanical & Industrial Engineering, University of the Witwatersrand, Johannesburg, South Africa.
Bernadette Sunjka, School of Mechanical & Industrial Engineering, University of Witwatersrand, Johannesburg, South Africa.

ID 49 Challenges and Obstacles facing African cities to implement smart cities programs: Perspectives from African Local Government Practitioners in the City of Tshwane, South Africa.
Tlou Philemon Mathane, Masters Student, University of Johannesburg, South Africa.

ID 119 Making Africa 4.0: Possible Impact of Implementing Industry 4.0.
Adedotun Adetunna, Department of Quality and Operations Management, University of Johannesburg, South Africa.
Nelson Madonsela, Department of Quality and Operations Management, University of Johannesburg, South Africa.

ID 388 Utilization of Internet of Things in Food Supply Chain – A Case study in a developing country in Africa
Ahmed Mehrem, Department of Engineering, University of Duisburg Eenseen University, Duisberg, Germany

ID 002 Prediction of Pneumonic Oxygenation in a PID-embedded Electro-pneumatic Pressure-Controlled Ventilator Device.
Ebenzezer Oluobunmi Ige, Department of Mechanical and Mechatronic Engineering, Department of Biomedical Engineering, Afe Babalola University, Ado, Nigeria.
Adedotun Olanrewaju Adetunna, Department of Mechanical and Mechatronic Engineering, Afe Babalola University, Ado, Nigeria.
Samuel Olufemi Amudipe, Department of Mechanical and Mechatronic Engineering, Afe Babalola University, Ado, Nigeria.

10:00 – 11:45, THURSDAY Case Studies Virtual Room 4

Session Chair: Abdul Rahim Anuar, Institute for Indonesia, Thailand and Singapore (UUMITS), Universiti Utara Malaysia, Kedah, Malaysia.

ID 276 Political Alsms: Patronage Practices In The 2019 Legislative Election In South Sumatra
Ridhah Taqwa, Department of Sociology, University of Sriwijaya, Palembang Indonesia.
Zulfikri Suleman, Department of International Relations, University of Sriwijaya, Palembang Indonesia.

ID 279 Revisiting Indonesian Youth Nationalism in the Indonesia-Malaysia Borderland
Addin Kurnia Putri, Department of Sociology, Universitas Sebelas Maret, Surakarta, Indonesia.
Ignatius Agung Satyawan, Department of International Relations, Universitas Sebelas Maret, Surakarta, Indonesia.

ID 280 The Role Of Religious Leaders In HIV / AIDS Prevention And Management In Malang City
Titi Fitrianita, Ucca Arawindha, Department of Sociology, Faculty of Social and Political Sciences, Universitas Brawijaya, Malang, Indonesia.

ID 281 Transnationalism of Sebatik Island Malaysia-Indonesia: A Regional Economic Integration Perspective.
Sandy Nur Irfal Rahario, Research Center for Politics, National Research and Innovation Agency (BRIN), Jakarta, Indonesia.
Abdul Rahim Anuar, Institute for Indonesia, Thailand and Singapore (UUMITS), Universiti Utara Malaysia, Kedah, Malaysia.

ID 286 The Resilience of The Tablighi Jamaat During the Covid-19 Period
Nur Afni Khafsoh, Department of Sociology, Faculty of Ushuluddin and Islamic Thought, UIN Sunan Kalijaga Yogyakarta, Jl. Laksda Adisucipto, Pranginangan, Kec. Depok, Kabupaten Sleman, Daerah Istimewa Yogyakarta 55281, Indonesia.

ID 288 The Conflict in the Iron Sand Mining Construction in Yogyakarta (A Study of the Society’s Social Movement Against the Iron Sand Mining Construction Project)
Muhammad Alhadad Fuadlah Habib, Faculty of Economy and Islamic Business, Universitas Islam Negri Sayyid Alih Rahmatullah Tulungagung.
Asik Putri Ayusari Ratnaningsih, Faculty of Humanities, Universitas Airlangga Surabaya.
Muhammad Fatihullah, PT Kilang Pertamina Internasional Unit Dumai.
Siti Muslihatul Mukaromah, Madrasah Aliyah Negeri 7 Jombang.

ID 289 Challenges of Party Autonomy to Party Institutionalization: A Case of Internal Party Conflict
Asik Putri Ayusari Ratnaningsih, Faculty of Humanities, Universitas Airlangga Surabaya.

© IEOM Society International 65 3rd African Conference
April 7, 2022 (Thursday) - Session: 12:00 – 2:30 pm

Keynote Speakers

12:00 – 12:30 pm Keynote XI:

Prof. Elizabeth S. Bosire Abenga  
Director  
Pan African University Institute for Governance, Humanities and Social Sciences (PAUGHSS)  
Yaounde, Cameroon

12:30 – 1:00 pm Keynote XI:

Prof Keith Carter 
Honorary Professor 
University of Leicester 
United Kingdom

1:00 – 1:30 pm Keynote XIII:

Engr Dr Izuchukwu F. Okafor  
Director  
National Centre for Energy Research and Development
April 7, 2022 (Thursday) - Session: 2:30 – 4:00 pm

### 2:30 – 4:00, THURSDAY

**Global Supply Chain and Logistics II**  
Virtual Room 1

**Session Chair:** Dr. Ratri Parida

2:30 – 2:50 pm (Thursday)

Dr. Ratri Parida  
Associate Professor  
IMT Ghaziabad, India  
Visiting Research Fellow  
Guildhall School of Business and Law (GSBL)  
London Metropolitan University  
London, UK

**Topic:** Supply Chain Finance: Insights and Research Opportunities

2:50 – 3:10 pm (Thursday)

Abdul Sattar Safaei, PhD  
Associate Professor, Sustainable Supply Chain, Founder of Infinite Booster  
Babol Noshirvani University of Technology  
Iran

3:10 – 3:30 pm (Thursday)

Hallen-by Guitemberg Lamarque  
Conference Co-Chair  
Assistant Professor, Infoworld University, Port-au-Prince, Haiti  
Master in Agribusiness Management Student at Rome Business School  
Hallen-by Guitemberg LAMARQUE, Engineer-Agronomist with specialization in Crop Production. Master's student in Agribusiness Management and Assistant Professor.

3:30 – 3:50 pm (Thursday)

Dr. M S Uppin  
Professor and Head  
Department, Industrial & Production Engineering  
P.D.A. College of Engineering, Kalaburagi  
India

**Global Supply Chain and Logistics Management**

2:30 – 4:00, THURSDAY  
Virtual Room 2

**Session Chair:** Oluwayemisi Abisuga, Centre for Rapid Prototyping and Manufacturing, Central University of Technology, Bloemfontein, South Africa.

**ID 44**  
Concrete Trial Mix Design for Evaluation of Concrete Grade: Implication in Construction Industry  
Akinwamide Joshua Tunbosun and Akinwamide Oluwayinka Glory, Department of Civil Engineering, School of Engineering, The Federal Polytechnic, Ado Ekiti, Ekiti State, Nigeria.

ID 45  Concrete Trial Mix Design for Evaluation of Concrete Grade: Implication in Construction Industry.
Akinwamide Joshua Tunbosun and Akinwamide Oluwayinka Glory, Department of Civil Engineering, School of Engineering, The Federal Polytechnic, Ado Ekiti, Ekiti State, Nigeria.
Abiye Adekunle Oluyede, Ogidi Mayowa Ayodele, and Osanyintokun Oluwatoyin Eugene, Department of Civil Engineering, School of Engineering, College of Technology, Bamidele Olumuj University of Education, Science and Technology, Ikere -Ekiti, Ekiti-State, Nigeria.

ID 121  Aerodynamic Behavior of an Ornithopter Capable of a Sustained and Controlled Flight.
Bernard Adaramola, Department of Mechanical & Mechatronics Engineering, Afe Babalola University, Ado Ekiti Nigeria.
Adedotun Adetunla, Department of Mechanical & Mechatronics Engineering, Afe Babalola University, Ado Ekiti Nigeria.

ID 212  Integrated Location and Technician Routing Problem with Profits Modeling for Managed Service Provider.
Rahmatyan Bharata Widyanandaru, Department Of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia.
Ninid Indah Arvitrida, Ph. D, Head of LSCM Laboratory, Department of Industrial And Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia.
Ahmad Rusdiansyah, Ph. D, Associate Professor in the Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia.

ID 85  Development of Business Process Model for Drone Regulation and Improvement in South Africa.
Quintin Mokoena 11esamani Daniyan, 1Khumubani Mpofu and Department of Industrial Engineering, Tshwane University of Technology, Pretoria, South Africa.
Oluwayemisi Abisuga, Centre for Rapid Prototyping and Manufacturing, Central University of Technology, Bloemfontein, South Africa.

ID 197  Decision Making of Product Deletion and Repetition For The Muslim Fashion Industry
Yaumil Khairoh, Farizal, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia.

ID 253  Optimal Production Run Length of a Deteriorating Process with Investment in Setup and Quality Improvement
Ahmed M. Ali, Ahmad Al Hanbali, Hutham H. Saleh, Department of Industrial and Systems Engineering, Interdisciplinary Research Center of Smart Mobility and Logistics, King Fahd University of Petroleum & Minerals, P.O. Box 5067, Dhahran 31261, Saudi Arabia.

ID 46  Ameliorating the effects of time overrun in the execution of capital infrastructure projects.
Edoghogho Ogbeifun, Civil Engineering Department, Faculty of Engineering, University of Jos.
Jan-Harm C Pretorius, Postgraduate School of Engineering Management, Faculty of Engineering and the Built Environment, University of Johannesburg.

2:30 – 4:00, THURSDAY  Technology Management and Engineering Economy  Virtual Room 3
Session Chair: Umar Adamu Alhaji, Department of Mechanical Engineering, Bayero University Kano, Nigeria.

ID 191  The Future of Civil Aviation Industry: Technology Management
Daniel N. Otokwuk, Beng Amineche Ispin laeng, Graduate School of Technology Management, University of Pretoria, Pretoria South Africa.
Hilda Kundai Chikwanda, Ph.D., Professor of Engineering & Technology Management, Graduate School of Technology Management, University of Pretoria, Pretoria, South Africa.

ID 210  Advances in Nanotechnology and Nanoparticles in the 21st Century – An Overview
Sunday A. Afolalu, Omolayo M. Ikumapayi, Olayinka T. Ogundipe, Department of Mechanical and Mechatronics Engineering, Afe Babalola University, Ado Ekiti, Nigeria.
Temilayo A. Adegbeye, Department of Mechanical Engineering, Ilara University, Ilara-Mokin, Ondo State, Nigeria.

ID 116  Maintenance Culture in the Automotive Industry in era of Industry 4.0: challenges and state of readiness
Adetunmbi Adetunmbi University of Quality and Operations Management, University of Johannesburg, South Africa.
Chinwenye Chukwudike, College of Engineering Effat University, Jeddah, Saudi Arabia.
Mohamed F. El-Amin, College of Engineering Effat University, Jeddah, Saudi Arabia.

ID 144  Techno-Economic Study of Adding Hydrogen Storage to PV Plant in Neom City.
Masahiro A. Rajah, College of Engineering Effat University, Jeddah, Saudi Arabia.
Mohamed F. El-Amin, College of Engineering Effat University, Jeddah, Saudi Arabia.

ID 90  Investigation of the Level of Automation in Some Selected Manufacturing Industries in Kano, Nigeria.
Umar Adamu Alhaji and Abali Rukayia, Department of Mechanical Engineering, Bayero University Kano, Nigeria

ID 498  Investigating the Stress Intensity Factor of E-Glass Fibre Reinforced Polyester Composites
Meshach Osaretin, Sylvester Edeluoge, Patrick Akpan, Cornelius Agbo, Department of Mechanical Engineering, University of Nigeria, Nsukka, Nigeria.
Africa Centre of Excellence for Sustainable Power and Energy Development (ACE-SPED), University of Nigeria, Nsukka

2:30 – 4:00, THURSDAY  Case Studies  Virtual Room 4
Session Chair:

ID 294  Improving Student Learning Outcomes through Teacher Competence, Academic Supervision as well as Education and Training.
Sahrahi, Gunawan B. Ilyas, Hasbi Hasbi, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.
Muhammad Ybnu, Universitas Tomakaka, Mamuju, Indonesia.
Sutiyana Fachruddin, Department of Communication Science, Universitas Halu Oleo, Indonesia.
Muhammad Ali Equatora, Department of Community Guidance, Indonesia.
Marsuna, Department of Community Guidance, Indonesia

Mamman Abubakar, Syafi Ibu, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.
Gemaistiti Sakkir, Universitas Negeri Makassar, Makassar, Indonesia.
Suriyani BB, Department of Public Administration, Halu Oleo University, Indonesia.
Emi Qomariyah, Department of Business Administration, Halu Oleo University, Indonesia.
Endah Setiyowati, Department of Public Administration, Brawijaya University, Indonesia.

ID 321  The Effect of Village Fund Allocation and Village Funds on Increasing the Welfare of Village Communities through Performance Management in Jeneponto Regency.
Johan, Mattalatta Mattalatta, Andi Muh. Rum Tajang, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.
ID 323  **Analysis of Social Assistance Grants for Improving Community Welfare in West Sulawesi Province**  
Makiyah, Mattalatta Mattalatta, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.  
Misnawati, Sekolah Tinggi Ilmu Pengayoman, Makassar, Indonesia.  
Muhammad Arsyad, Department of Sociology, Halu Oleo University, Indonesia.  
Ratna Supiyah, Department of Sociology, Halu Oleo University, Indonesia.  
Amin Tunda, Department of Social Welfare, Universitas Halu Oleo.

ID 325  **The Influence of Mother’s Knowledge, Attitude and Education Level on Maternal Toddler Participation in Integrated Service Post Activities.**  
Sitti Nahajerah, Ansar, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.  
Rachmayanthy Rachmayanthy, Department of Correctional Technic, Indonesia.  
Ali Muhammad, Department of Community Guidance, Indonesia.  
Ida Sriwaty Sunarjo, Department of Physiology, Universitas Halu Oleo, Indonesia.  

ID 327  **The Impact of Digital Marketing and Customer Perception Value Through Customer Satisfaction on Customer Loyalty at PT. Catur Putra Harmonis Alauddin of Makassar Branch**  
Ismaila, Gunawan B. Ilyas, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.  
Yenni Kurnia Gusti, STIE Widya Wiwaha, Yogyakarta, Indonesia.  
R. Endy Gunanto Marsasi, Universitas Islam Indonesia, Yogyakarta, Indonesia.

ID 329  **The Influence of Work Environment and Compensation on Employee Performance Through Job Satisfaction in the Office of the Regional Financial Management Agency Bantaeng Regency**  
Irma Dwiyanti, Nasruddin Nawawi, Umi Farida, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia.  
Geminastiti Sakkir, Universitas Negeri Makassar, Indonesia.  
Ni Ketut Veri Kusumaningrum, Politeknik Internasional Bali

2:30 – 4:00, THURSDAY  
Panel – Diversity and Inclusion  
Virtual Room 5

**Diversity and Inclusion Panel sponsored by Ford Motor Company**

Panel Chair:  
Professor Donald M. Reimer  
Director of Membership and Chapter Development – IEOM Society  
President, The Small Business Strategy Group, Detroit, Michigan, USA  
Adjunct Faculty – A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering  
Lawrence Technological University, Southfield, Michigan, USA

Panel Speaker I  
Yazeli Cruz  
Medallia Expert Services / Latinx@Medallia Lead  
Medallia  
Washington, DC, USA

Panel Speaker II  
Dr. Bhaskar Bhandarkar  
Director General  
Institution for Innovation Industrial Engineering and Entrepreneurship India and  
Former Chairman Indian Institution of Industrial Engineering

Panel Speaker III  
Professor Eldon G. Caldwell Marin, Ph.D., Sc.D, Dr.Ed.  
Professor, Industrial Engineering Department  
Engineering School  
University of Costa Rica  
San Jose, Costa Rica

Panel Speaker IV  
Engr Dr Paul Amaechi Ozor  
Head  
Department of Mechanical Engineering  
University of Nigeria, Nsukka  
Nigeria

April 7, 2022 (Thursday) - Session: 4:00 – 6:00 pm

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Second IEOM Fellows Induction at the IEOM Bangkok Conference on March 6, 2019
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<td>168. Bay Area of San Francisco &amp; San Jose, California, USA</td>
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<td>169. Arongghata, Khulna, Bangladesh</td>
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IEOM Global Council

Professor Charles Mbohwa
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Professor, Department of Engineering
Universidad de Monterrey
San Pedro Garza Garcia, NL
Mexico
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<tr>
<th>Role</th>
<th>Name</th>
<th>Title and Affiliation</th>
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<tr>
<td>Director of Membership and Chapter</td>
<td>Professor Donald M. Reimer</td>
<td>President, Small Business Strategy Group, Detroit, Michigan, USA</td>
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<td>Adjunct Faculty – Lawrence Tech</td>
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<td>Southfield, Michigan, USA</td>
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<td>Director of Program</td>
<td>Dr. Mohammad Khadem</td>
<td>Associate Professor Department of Mechanical and Industrial Engineering</td>
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<td>Sultan Qaboos University Muscat, Oman</td>
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<td>Dr. Mohammad Anwar Rahman</td>
<td>Associate Professor Manufacturing and Construction Management</td>
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<td>Executive Director</td>
<td>Dr. Ahad Ali</td>
<td>Associate Professor and Director of IE Program, A. Leon Linton Dept. of Mechanical,</td>
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<td>Robotics and Industrial Engineering, Lawrence Technological University, Southfield,</td>
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<td>Dr. Saso Krstovski</td>
<td>Lean Manufacturing Coach/Six Sigma Master Black Belt, Van Dyke Transmission Plant Ford</td>
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<td>Associate Program Director</td>
<td>Dr. Annamalai Pandian</td>
<td>Associate Professor and Director, Bachelor of Science in Engineering Technology</td>
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<td>Associate Program Director</td>
<td>Dr. Hayder Zghair</td>
<td>Assistant Teaching Professor of Industrial and Manufacturing Engineering, Pennsylvan</td>
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<td>State University, The college: Penn State Berk, PA, USA</td>
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<td>Associate Director of Chapter Development</td>
<td>Dr. Ir. Lina Gozali</td>
<td>Lecturer Industrial Engineering Department</td>
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<td>Tarumanagara University (UNTAR) Jakarta, Indonesia</td>
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<td>Operations Manager</td>
<td>Dr. Taufiq Islam</td>
<td>IEOM Society International Southfield, Michigan, USA</td>
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<td>Director of Web Development</td>
<td>Suvro Sudip</td>
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<td>Director of Certification</td>
<td>Dr. Joseph M. Ogundu</td>
<td>President/CEO Emerald Global Consulting Inc.</td>
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<td>West Bloomfield, Michigan</td>
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<td>Assistant Program Director</td>
<td>Ms. Rocksana Ahmed</td>
<td>Senior - BS in Mechanical and Manufacturing Engineering Technology, Lawrence Technological University, Southfield, Michigan, USA</td>
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Upcoming Events

7th North American Conference on Industrial Engineering and Operations Management
June 12-14 2022, Orlando, Florida, USA
Venue: Holiday Inn & Suites Across from Universal Orlando

3rd South American Conference on Industrial Engineering & Operations Management
Asuncion, Paraguay, July 19-21, 2022
Host: Asuncion National University

5th European Conference on Industrial Engineering & Operations Management
Rome, Italy, July 26-28, 2022
Host: Sapienza – University of Rome

2nd Indian Conference on Industrial Engineering and Operations Management
August 16-18, 2022, Warangal, India
Hosts: NIT, Warangal and JNTU, Hyderabad

3rd Asia Pacific Conference on Industrial Engineering and Operations Management
Sept. 13-15, 2022, Johor Bahru, Malaysia
Hosts: Universiti Teknologi Malaysia (UTM) & Universitas Sebelas Maret (UNS), Indonesia

First Australian Conference on Industrial Engineering and Operations Management
Sydney, Australia, December 20-22, 2022
Venue: Hilton Sydney, NSW, Australia

13th Annual International Conference on Industrial Engineering and Operations Management
March 7-9, 2023, Manila, Philippines
Venue: Hilton Manila, Host: De La Salle University