



















respectively. He worked as a data scientist at doosan heavy industries and construction, Korea, from 2015 to 2017. His primary research interests cover PHM(Prognostics and Health Management) and reliability analysis of accelerated degradation and life tests. His other research interests include data mining and machine learning applications for large-scale system data.

**Suk Joo Bae** is a Full Professor of Department of Industrial Engineering at Hanyang University, Seoul, South Korea. He earned B.S. and M.S. in Industrial Engineering from Hanyang University, Seoul, South Korea, respectively. He earned PhD in Industrial and Systems Engineering from Georgia Institute of Technology, Atlanta, USA. He worked as a reliability engineer at Samsung SDI, Korea, from 1996 to 1999. His research interests are centered on the reliability evaluation of light displays and nano-devices via accelerated life and degradation testing, statistical robust parameter design, and process control for large-volume on-line processing data. He published about 30 papers in journals such as Technometrics, Journal of Quality Technology, IIE Transactions, IEEE Transactions on Reliability, and Reliability Engineering & System Safety. He is a member of INFORMS and ASA.

**Byeongmin Mun** is a Research Professor of Department of Industrial Engineering at Hanyang University, Seoul, South Korea. He earned B.S. in Industrial Engineering from Daejin University, Pocheon, South Korea. He earned M.S. and PhD in Industrial Engineering from Hanyang University, Seoul, South Korea, respectively. His research interests are maintenance policy of repairable system, PHM(Prognostics and Health Management), and Data Mining.

**Chuljin Park** is an Assistant Professor of Department of Industrial Engineering at Hanyang University, Seoul, South Korea. He earned B.S. in Mechanical Engineering from Korea Advanced Institute of Science and Technology(KAIST), South Korea. He earned M.S. and PhD in Industrial and Systems Engineering from Georgia Institute of Technology, Atlanta, USA. His research interests include simulation optimization, stochastic simulation, simulation-based machine learning, and environmental and healthcare system management.