















## 9. Acknowledgements

This research work was funded by the Senate Research Committee of University of Moratuwa, Sri Lanka. (Under long-term grant number SRC/LT/2019/03)

## 10. References

- Akbar, A., Alavi, N., Goudarzi, G. and Teymouri, P., 2015. Resources, conservation and recycling household recycling knowledge, attitudes and practices towards solid waste management. *Resources, Conservation & Recycling*, 102, 94–100.
- Altman, I. (1975). *The Environment and Social Behavior: Privacy, Personal Space, Territory, and Crowding*.
- Alwis, A. (2008). Waste to Energy for Sri Lanka. 20-22. Retrieved from [http://dl.nsf.ac.lk/bitstream/handle/1/14320/ER-34%289%29\\_20.pdf?sequence=2&isAllowed=y](http://dl.nsf.ac.lk/bitstream/handle/1/14320/ER-34%289%29_20.pdf?sequence=2&isAllowed=y)
- Bandara, N. (2008). Municipal Solid Waste Management – The Sri Lankan Case. Conference on Developments in Forestry and Environment Management in Sri Lanka (pp. 1-10). Department of Forestry and Environmental Sciences, University of Sri Jayewardenepura, Sri Lanka . Retrieved from <http://journals.sjp.ac.lk/index.php/fesympo/article/view/21/17>
- Bandara, N. J. G. J., & Hettiaratchi, J. P. A. (2010). Environmental impacts with waste disposal practices in a suburban municipality in Sri Lanka. *International Journal of Environment and Waste Management*, 6(1/2), 107.
- Barr S, Gilg A, Ford N., (2005). Defining the multi-dimensional aspects of household waste management: A study of reported behaviour in Devon. *Resources, Conservation and Recycling / Elsevier, RECYCL-1750*; No. of Pages 21
- Brown, D. P. (2015). Garbage: How population, landmass, and development interact with culture in the production of waste. *Resources, Conservation and Recycling*, 98, 41-54.
- Castaneda, J. A., Rodríguez, M. A., & Luque, T. (2009). Attitudes' hierarchy of effects in online user behaviour. *Online Information Review*, 33(1), 7-21.
- Chang, T., Wysk, R., and Wang, H., *Computer-Aided Manufacturing*, 3<sup>rd</sup> Edition, Prentice Hall, New Jersey, 2006.
- Chen, X., Peterson, M. N., Hull, V., Lu, C., Lee, G. D., Hong, D., & Liu, J. (2011). Effects of attitudinal and sociodemographic factors on pro-environmental behaviour in urban China. *Environmental Conservation*, 38(1), 45-52.
- Cook, V., and Ali, A., End-of-line inspection for annoying noises in automobiles: trends and perspectives, *Applied Acoustic*, vol. 73, no. 3, pp. 265-275, 2012.
- Corraliza JA, Berenguer J, (2000). Environmental values, beliefs and actions: a situational approach. *Environ Behav* 2000;32(6):832 – 48
- De Kadt, M. (1994). Garbage Culture and The Culture of Garbage: The Solid Waste Management Quagmire. *Industrial & Environmental Crisis Quarterly*, 8(4), 345-379
- Desa, A., Ba, N. and Yusoooff, F., 2011. A Study on the knowledge, attitudes, awareness status and behaviour concerning solid waste management. In *Procedia Social and Behavioral Sciences*, 643–648.
- Diekmann, A. and Franzen, A., 1999. The wealth of nations and environmental concern. *Environment and Behaviour*, 31(4), 540–549.
- Eheliyagoda, D., 2016. Assessment of a Planned Municipal Solid Waste Management System in Sri Lanka. *Journal of Applied Science and Environmental Management*, 20(1), 58–61.
- Eurostat. (2003). *Waste generated and treated in Europe*. Luxembourg: European Communities.
- Guerrero, L., Maas, G., & Hogland, W. (2013). Solid waste management challenges for cities in developing countries. *Waste Management*, 13, 220–232. doi:10.1016/j.wasman.2012.09.008
- Gunaruwan, T. L., and Gunasekara, W. N., (2016). Management of municipal solid waste in Sri Lanka : A comparative appraisal of the economics of composting. *NSMB Journal of Management*, 2(1), 27–45.
- Hall, E. T., 1976. *Beyond culture* [online] .1st ed. New York: Doubleday. Available from [https://monoskop.org/images/6/60/Hall\\_Edward\\_T\\_Beyond\\_Culture.pdf](https://monoskop.org/images/6/60/Hall_Edward_T_Beyond_Culture.pdf).
- Herzberg, F., 2008. One more time: How do you motivate employees? *Harvard Business Review*, 81(1), 87–96.
- Hofstede, G. H., 1980. *Culture's consequences: International differences in work-related values* [online]. Thousand Oaks: CA: Sage. Retrieved from <https://us.sagepub.com/en-us/nam/cultures-consequences/book665>.
- Hofstede, G. H., 2001. *Culture's consequences: Comparing values, behaviors, institutions, and organizations across nations* .2nd ed. Thousand Oaks: Sage Publications.
- Homer, P. M. and Kahle, L. R., 1988. A structural equation test of the value-attitude-behavior hierarchy. *Journal of Personality and Social Psychology*, 54(4), 638–646.



- Hoonweg, D., & Thomas, L. (2000). What a waste: Solid waste management in Asia. Urban Development Sector Unit. Washington, DC, USA: The International Bank for Reconstruction and Development/The World Bank. Retrieved from <http://documents.worldbank.org/curated/en/694561468770664233/pdf/multi-page.pdf>
- Jatau, A. (2013). Knowledge, Attitudes and Practices Associated with Waste Management in Jos South Metropolis, Plateau State. *Mediterranean Journal of Social Sciences*, 4(5), 119-127. doi:10.5901/mjss.2013.v4n5p119
- Jones, M., Optimal lean strategy, Available: <http://www.iienet.org/Details.aspx?id=xxx>, May 21, 2011.
- Joos, W., Carabias, V., Winistoerfer, H., & Stuecheli, A. (1999). Social aspects of public waste management in Switzerland. *Waste management*, 19(6), 417-425.
- Jordan, D. T. L. (2000). Human Behavior and the Social Environment I.
- Jung, C. G., 1971. Psychological Types: Collected Works [Online]. In: Read, H., Fordham, M., Gerhard, A. and Mcgiure, W. (ed). 2nd ed. Princeton: NJ: Princeton University Press. Available from [https://www.jungiananalysts.org.uk/wp-content/uploads/2018/07/C.-G.-Jung-Collected-Works-Volume-6\\_-Psychological-Types.pdf](https://www.jungiananalysts.org.uk/wp-content/uploads/2018/07/C.-G.-Jung-Collected-Works-Volume-6_-Psychological-Types.pdf)
- Kaplan, K., Henn, L., Park, J. and Kurman, J., 2019. What predicts household waste management behaviors? Culture and type of behavior as moderators. *Resources, Conservation & Recycling*, 11–18.
- Karak, T., Bhagat, R. M., & Bhattacharyya, P. (2012). Municipal Solid Waste Generation, Composition, and Management: The World Scenario. *Critical Reviews in Environmental Science and Technology*, 42(15), 1509-1630.
- Karunaratne, L., 2015. Municipal Solid Waste Management (MSWM) in Sri Lanka. In National Symposium on Real Estate Management and Valuation 2015. ResearchGate. Available from: [https://www.researchgate.net/publication/284722213\\_Municipal\\_Solid\\_Waste\\_Management\\_MSWM\\_in\\_Sri\\_Lanka](https://www.researchgate.net/publication/284722213_Municipal_Solid_Waste_Management_MSWM_in_Sri_Lanka).
- Knowles, M. M., 1975. Self-directed learning: A guide for learners and teachers. New York: Association Press.
- Kumar, M., 2018. The relationship between beliefs, values, attitudes and behaviours [Online]. Available from: <https://owlcation.com/social-sciences/Teaching-and-Assessing-Attitudes> [Accessed 6 March 2019].
- Laor, P., Suma, Y., Keawdounlek, V., Hongtong, A., Apidechkul, T., & Pasukphun, N. (2018). Knowledge, attitude and practice of municipal solid waste management among highland residents in Northern Thailand. *Journal of Health Research*, 32(2), 123–131. <https://doi.org/10.1108/JHR-01-2018-013>
- Loughlin, C., & Barling, J. (2001). Young workers' work values, attitudes, and behaviours. *Journal of occupational and organizational Psychology*, 74(4), 543-558.
- Mallawarachchi, A., & Silva, D. (2017, April 17). Retrieved from Meethotamulla tragedy: Consequences of negligence and lethargy? Retrieved from Daily News: <http://dailynews.lk/2017/04/17/features/113310/meethotamulla-tragedy-consequences-negligence-and-lethargy>
- Martin M, Williams I.D, Clark M, (2006). Social, cultural and structural influences on household waste recycling. A case study. *Resources, Conservation and Recycling* 48 / 357 – 395
- Mbeng, L. O., Probert, J., Phillips, P. S. and Fairweather, R., 2009. Assessing public attitudes and behaviour to household waste management in Cameroon to drive strategy development. *Sustainability*, 556–572.
- Meneses GD, Palacio AB. (2005). Recycling behaviour: a multidimensional approach. *Environment and Behaviour* 2005; 37:837 – 60
- Menikpura, S. N. M., Gheewala, S. H., & Bonnet, S. (2012). Sustainability assessment of municipal solid waste management in Sri Lanka: problems and prospects. *Journal of Material Cycles and Waste Management*, 14(3), 181-192.
- Milfont, T. L., & Schultz, P. W. (2016). Culture and the natural environment. *Current Opinion in Psychology*, 8, 194–199. <https://doi.org/10.1016/j.copsy.2015.09.009>
- Milfont, T. L., Duckitt, J. and Cameron, L. D., 2006. A cross-cultural study of environmental motive concerns and their implications for proenvironmental behavior. *Environment and Behaviour*, 38(6), 745–767.
- Milfont, T. L., Duckitt, J. and Wagner, C., 2010. A Cross-cultural test of the value attitude behaviour hierarchy. *Journal of Applied Social Psychology*, 40(11), 2791–2813.
- Morales, C., Holtschlag, C., Masuda, A. D. and Marquina, P., 2018. In which cultural contexts do individual values explain entrepreneurship? An integrative values framework using Schwartz's theories. *International Small Business Journal*, 1–27.
- Moya, D., Aldás, C., Jaramillo, D., Játiva, E., & Kaparaju, P. (2017). Waste-To-Energy Technologies: an opportunity of energy recovery from Municipal Solid Waste, using Quito - Ecuador as case study. *Energy Procedia*, 134, 327–336. doi:0.1016/j.egypro.2017.09.537
- Mwiinga, F., 2014. Perceptions of solid waste management and the role of environmental education among selected residents of Choma township of Southern Zambia [online]. The University of Zambia. Available from <http://dspace.unza.zm:8080/xmlui/bitstream/handle/123456789/3792/Main Document.pdf>

- Nordlund, A., 2009. Values, attitudes, and norms [Online], Available from: <https://www.slu.se/globalassets/ew/org/centrb/f-for/pdf/2009-nordlund-values-attitudes-and-norms.pdf>.
- Ogawa, H. (2000). Sustainable solid waste management in developing countries. 7th ISWA International Congress and Exhibition. Kuala Lumpur, Malaysia: World Health Organization. Retrieved from [www.soc.titech.ac.jp/uem/waste/swmfogawal.htm](http://www.soc.titech.ac.jp/uem/waste/swmfogawal.htm)
- Pandian, A., and Ali, A., Automotive robotic body shop simulation for performance improvement using plant feedback, *International Journal of Industrial and Systems Engineering*, vol. 7, no. 3, pp. 269-291, 2011.
- Plummer, J., Slater, R. (2002). Enhancing human resources. In: Focusing partnership: A Source book for municipal capacity building in public-private partnerships, Anonymous London: Earthscan, p. 259-280.
- Rabinowicz, W. and Rønnow-Rasmussen, T., 2004. The strike of the demon: on fitting pro-attitudes and value. *Ethics*, 114(3), 391-423.
- Rahim, A., and Khan, M., Optimal determination of production run and initial settings of process parameters for a deteriorating process, *International Journal of Advanced Manufacturing Technology*, April 2007, vol. 32, no. 7-8, pp. 747-756, 2007.
- Rahman, M. A., Sarker, B. R., and Escobar, L. A., Peak demand forecasting for a seasonal product using Bayesian approach, *Journal of the Operational Research Society*, vol. 62, pp. 1019-1028, 2011.
- Ramachandra, T., Bharath, H., Kulkarni, G., & Han, S. (2018). Municipal solid waste: Generation, composition and GHG emissions in Bangalore, India. *Renewable and Sustainable Energy Reviews*, 82, 1122-1136.
- Regan, D. T., & Fazio, R. (1977). On the consistency between attitudes and behavior: Look to the method of attitude formation. *Journal of Experimental Social Psychology*, 13(1), 28-45.
- Reimer, D., and Ali, A., Engineering education and the entrepreneurial mindset at Lawrence Tech, *Proceedings of the International Conference on Industrial Engineering and Operations Management*, Istanbul, Turkey, July 3 – 6, 2012.
- Rokeach, M., 1968. Beliefs, attitudes, and values: A theory of organization and change (1st ed.). San Francisco: Jossey-Bass. Available from: <https://archive.org/details/beliefsattitudes00rokerich/page/n239>.
- Samarasinghe, R., 2012. The Influence of Cultural Values and Environmental Attitudes on Green Consumer Behaviour. *International Journal of Behavioral Science*, 7(1), 83-98.
- Schein, E.H., 2004, *Organisational Culture and Leadership*, Jossey-Bass, San Francisco, CA.
- Scheinberg, A., Spies, S., Simpson, M., & Mol, A. (2011). Assessing urban recycling in low-and-middle income countries: Building on modernised mixtures. *Habitat International*, 35, 188-198.
- Schwartz, S. H., 2006. A Theory of cultural value orientations: Explication and applications. *Comparative Sociology*, 5(2), 137-182.
- Schwartz, S. H., 2011. Values: Cultural and individual. Fundamental questions in cross-cultural psychology [Online] New York: US: Cambridge University Press.
- Schwartz, S. H., Bardi, A. and Bianchi, G., 2000. Value adaptation to the imposition and collapse of communist regimes in East-Central Europe. *Political Psychology*, 217-237.
- Shanks, M., Platt, D., & Rathje, W. L. (2004). The perfume of garbage: modernity and the archaeological. *Modernism/modernity*, 11(1), 61-83. doi:10.1353/mod.2004.0027
- Shetty, D., Ali, A., and Cummings, R., A model to assess lean thinking manufacturing initiatives, *International Journal of Lean Six Sigma*, vol. 1, no. 4, pp. 310-334, 2010.
- Shim, S., Warrington, P. and Goldsberry, E., 1999. A personal value-based model of college students' attitudes and expected choice behavior regarding retailing careers. *Family and Consumer Sciences Research Journal*, 28, 28-51.
- Solomon, M., Bamossy, G., Askegaard, S. and Hogg, M. K., (2006). *Consumer behaviour: A European perspective* (3rd ed.). London: Pearson Education.
- Srinivasan, G., Arcelus, F.J., and Pakkala, T.P.M., A retailer's decision process when anticipating a vendor's temporary discount offer, *Computers and Industrial Engineering*, vol. 57, pp. 253-260, 2009.
- The Sunday Times. (2019, October 22). Agreement signed to resolve waste collection issue in Colombo. Retrieved from <http://www.sundaytimes.lk/article/1098013/agreement-signed-to-resolve-waste-collection-issue-in-colombo>
- Teo, M. and Loosemore, M., 2001. A theory of waste behavior in the construction industry 2001; 19:741-51. *Construction Management and Economics*, 741-751.
- Vidanaarachchi, C. K., Yuen, S. T., & Pilapitiya, S. (2006). Municipal solid waste management in the Southern Province of Sri Lanka: Problems, issues and challenges. *Waste Management*, 26(8), 920-930.
- Visvanathan C, Trankler J, Joseph K, Chiemchaisri C, Basnayake BFA, Gongming Z (2004) Municipal solid waste management in Asia. Asian Regional Research Program on Environmental Technology (ARRPET). Asian Institute of Technology publications. ISBN: 974-417-258-1
- Wijetunga, S., 2014. Community views and attitudes for waste management improvement in a higher education institute: Case study. University of Ruhuna.

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