An Investigation into Optimising Water Flow in an Existing Industrial Symbiosis: Development and Validation of a Model. Supervisors: Prof. Yasojinda Sandanayake, Prof. Chinthana Liyanage.


Mr. Bogasam Weerakkody Development and Validation of a Novel CFRP Steel Hybrid Crack Repairing Technique for the Steel Structure. Supervisors: Prof. L.K.J. Gunaratne, Prof. D.S. Tharmaratnam.

The fashion industry is a major contributor to the global economy, but it employs significant environmental strain due to resource extraction, processing, transportation, and various emissions to air, water, and land. The mass-market segments characterized by high production volumes and low consumer engagement have presented a growing call for the industry to address these issues early in the product development process. Despite emerging trends and progress, this challenge remains. This thesis contributes to the rise of a CSH technique combined with multi-agent based Big Data Analytics using a framework for intelligent transport systems, with IEEE 802.11p and cellular-V2X technology, to address these issues early in the product development process. This investigation reported that the CSH strategy is in the range of 32% to 45%.

The fashion industry offers a unique opportunity to harness the potential of AR/VR experiences to overcome the industry’s incremental development trends and engage consumers in new ways. This study focused on the development of a multi-agent based Big Data Analytics using a framework for intelligent transport systems, with IEEE 802.11p and cellular-V2X technology, to address these issues early in the product development process. This investigation reported that the CSH strategy is in the range of 32% to 45%.

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