Impact of Operational Excellence methodologies on business performance with Industry 4.0 as a mediator. (Ref. SoSS-2020-002)
Supervisory team: Prof. Jiju Antony & Prof. Umit Bititci

The fourth industrial revolution (Industry 4.0) has become increasingly referred to by academic scholars and practitioners, particularly in the manufacturing context. A number of empirical studies are available on the use of Lean Production for improved operational performance and environmental performance. However, it remains unclear whether the concurrent implementation of Operational Excellence methodologies will lead to improved business performance. Therefore, our key research question is “How does Industry 4.0 adoption moderate the relationship between Operational Excellence practices and business performance improvement in manufacturing companies?” This research would involve a mixed methods approach that would include a systematic literature review, quantitative survey(s), and qualitative data collection from various manufacturing companies at a global level. The supervisory team together have more than 15,000 LinkedIn members at a global level and these contacts will be utilised for the global survey and semi-structured interviews for data collection.

Applicants for this project should have an academic background in either manufacturing engineering, production engineering, industrial engineering, operations research, management science or decision science.

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When submitting your application for this project area, please select the option ‘Management, PhD’ from the drop-down list on the online application system.