

# Call for Special Session on Supply Chain Digitalization and Transformation

**Organizers: Dr. Ariful Hoque (Murdoch University, Australia), A/Prof Ferry Jie (Edith Cowan University, Australia); and Dr Thi Le (Murdoch University, Australia).**

Supply chain digitalization and transformation refer to the use of technology to streamline and automate the processes involved in the flow of goods and services from the point of origin to the point of consumption. The ultimate goal is to optimize the supply chain to reduce costs, increase efficiency, and improve customer satisfaction.

The use of technology in supply chain management has been gaining momentum for several years, but it has become more critical in recent times due to factors such as globalization, increased competition, and the COVID-19 pandemic.

Digitalization involves the adoption of technology to automate and optimize manual processes in the supply chain. This includes the use of cloud-based systems, artificial intelligence (AI), the Internet of Things (IoT), and blockchain technology.

Transformation, on the other hand, is a more comprehensive change that involves rethinking and redesigning the entire supply chain. It involves leveraging technology to improve the coordination and collaboration between all parties involved in the supply chain, including suppliers, manufacturers, distributors, retailers, and customers.

The benefits of supply chain digitalization and transformation include increased visibility and transparency, improved collaboration and communication, reduced lead times, improved quality control, and better risk management. Ultimately, these benefits lead to lower costs, higher efficiency, and improved customer satisfaction.

Several subtopics to be covered in this special session:

1. Supply Chain Sustainability
2. Supply Chain Resilience and Recovery post-COVID 19
3. Supply Chain in Society 5.0
4. Digital Supply Chain Financing
5. Supply Chain Risk Management
6. Supply Chain Finance Platforms
7. Blockchain
8. Supply Chain Big Data
9. Supply Chain Analytics
10. Supply Chain Digital Transformation in the Financial Institutions

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Dr **Ariful Hoque**, the Senior Lecturer in Finance at the Murdoch Business College, Murdoch University. He earned his Bachelor of Science in Civil Engineering from the Bangladesh University of Engineering and Technology and Doctor of Philosophy (PhD) in Finance from Curtin University (Australia). He held different positions in the industry for thirteen (13) years before commencing his academic profession. He worked as a business analyst, programmer, and software developer for several well-reputed organisations, including St George Bank (Australia) and Air New Zealand (New Zealand). He also served as a civil engineer for several multinational construction companies in Bangladesh.

He has had twenty (20) years of experience teaching in all areas of Finance, including research methodology and data analytics to undergraduate and postgraduate students at Curtin University, University of Dubai (AACSB accredited), University of Southern Queensland, University of South Australia, and Murdoch University. Also, he has authored one of the top five international finance textbook entitled 'International Financial Management' (<https://au.cengage.com/c/isbn/9780170449014/>). Since Semester 2, 2018, the International Financial Management first Asia-Pacific edition has been using in sixteen (16) institutions in Australia and New Zealand including the University of Western Australia, the University of Technology Sydney, the Macquarie University and the Waikato University. His research interest areas (alphabetically) include, but are not limited to, Data Analytics, Derivatives, Financial Engineering, Fintech, crowdfunding and Market Microstructure. He has published his high-quality research works in various journals including Energy Economics, International Review of Economics and Finance, Pacific-Basin Finance Journal, Global Finance Journal, International Journal of Managerial Finance, Energy Policy and Multinational Finance Journal. He had also received several grants and awards for excellence in research. He had presented his research works in twenty-nine (29) international conferences. He has authored a research-based finance text entitled Essays in Foreign Currency Options Markets (<https://www.bookdepository.com/Essays-in-Foreign-Currency-Options-Markets-Ariful-Hoque/9783639299571>). He supervised several PhD and Master by Research students. Currently, he has been supervising a number of PhD students with their area of research focuses on the financial technology (Fintech) and Crowdfunding, the digital financial platform. He possesses good leadership skills in the academic arena and served as the Associate Dean International (September 2016-December 2017) and Associate Dean for Postgraduate Degrees (May 2012-July 2015).



**Ferry Jie** is the **Associate Professor in Supply Chain and Logistics Management**, in the School of Business and Law. Ferry is currently a **Secretary to the Chartered Institute Logistics and Transport (CILTA) Western Australia (WA) Committee**. Ferry is also a part of the **Supply Chain & Logistics Association of Australia (SCLAA) WA Committee**. Previously, he was a Senior Lecturer and taking a program coordinator role in Logistics and Supply Chain Management (LSCM) at RMIT University. He was managing and coordinating

the undergraduate program in LSCM at RMIT from 2015 to 2016. Ferry Jie has maintained a **high quality of research** throughout his academic career including **international scholarly leadership** in the areas of **supply chain management and logistics**, including regularly being invited to be a **keynote speaker** and to give public lectures at symposiums and international conferences in Indonesia, Malaysia, Vietnam, China, UK, and Australia. From 2017 to now, published more than **55 refereed journal articles**—including 31 articles in **Q1-ranked in the Scimago** and 23 articles in **Q2-ranked in the Scimago**, and 10 refereed conference papers. Furthermore, Dr Jie

has received research grants/awards adding up to over **\$1.85 million** between 2010 and 2022. Dr Jie has professional and community engagement activities to contribute significantly to improve the university's reputation through contribution to the wider community. They are active participation in professional or governmental organisations at the Local, State, National, or International level; professional engagement; Media Star (speaking to national/international participants, professional agency, including international guest lecturer at universities).

#### ***Awards and recognition***

- 2022 – The 61st Australian Supply Chain and Logistics Awards (ASCLA)
- 2021 – ECU High Achieving Researcher Scheme: Securing Digital Futures
- 2020 – I won the prize for the most active individual with the highest average daily steps at ECU
- 2020, 2019 - High Commendation Award for Training, Education & Development Category by Supply Chain and Logistics Association of Australia (SCLAA).
- 2019 – I won the prize for the most active individual with the highest average daily steps at ECU
- 2019 - Mid Career Researcher Career Highlight awarded by EMCRN at ECU
- 2019 - Smart Cities Awards for Best Integration of an Individual Technology Category, City of Wanneroo (Railsmart Project - working together with PATREC (UWA), ECU



**Thi Le** is the **Lecturer in Accounting and Finance** at the Murdoch Business School. She achieved a PhD in Finance at Murdoch in August 2020, a Master of Finance at Curtin University in 2012, and a Bachelor in Economics at the Academy of Finance in 2008. Thi Le's research interest focuses on accounting frameworks, financial forecasting, fintech, supply chain, supply chain finance, shared mobility, connected and autonomous vehicle, and quantitative finance. As an active academic researcher, Thi Le has published many refereed journal articles, one (01) book with Springer Nature Publisher, and several international conference papers. Thi Le has solid industrial experience through the successful delivery of many industrial projects, including Australian Postgraduate Research projects supported by the Australian Government Department of Education, Skills, and Employment, to bridge Australian businesses with the brightest emerging research talent and tap into new worlds of innovation. She has been supervising a number of PhD students with their area of research focusing on financial technology (Fintech) and Crowdfunding, the digital financial platform.