

## Special Issue

# Sustainable Digital Transformation in Transport Systems

### Message from the Guest Editors

The transport system is seeing increasing adoption of digital technologies while facing simultaneous pressures from rapid digitalization and decarbonization goals. An array of digital tools, e.g., IoT, AIS, satellite data, AI, digital twins, blockchain/smart contracts, automation, cloud computing, etc., aim to improve operational efficiency, safety and transparency. However, these tools also introduce new risks such as cybersecurity, privacy and interoperability. With sustainability goals now necessitating measurable reporting and outcomes across emissions reduction, safety and social equity, there exist pressing limitations. Additionally, climate volatility and supply chain disruptions exacerbate the need for adaptive and resilient operations. Hence, a multidisciplinary approach is needed, aligning digital technologies with people, processes and policies for sector-specific contexts. This Special Issue welcomes further research that advances sustainable digital transformation for various transport sectors, including air, maritime, rail and land transport.

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### Guest Editors

Dr. Yimiao Gu

Department of Electronic Business, South China University of Technology, Guangzhou, China

Dr. Hui Shan Loh

Logistics and Supply Chain Management Programme, School of Business, Singapore University of Social Sciences, Singapore

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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sustainability@mdpi.com](mailto:sustainability@mdpi.com)

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## Editor-in-Chief

Prof. Dr. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University,  
Columbus, OH 43210, USA

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