

Smart Innovation, Systems and Technologies

Volume 149

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Smart Transportation Systems 2019

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Preface

With the newly developed emerging technologies, our transport and logistics sectors are undergoing revolutionary change, with intelligence, connectivity, automation, environment-friendly practice, etc. The 2nd International Symposium for Smart Transportation Systems provides a platform for researchers and practitioners to gather together and discuss the new revolutions. The topics range from macroscopic land use planning to microscopic traffic/intersection operations, from traditional modelling of traffic flow dynamics via car following models to the practice/applications of machine learning in transport systems, from logistics/routing to supply chain management, from vulnerable road users to heavy-duty vehicles, and from traditional transport network modelling to blockchain management in transport networks. The participants are mainly scholars and practitioners from Europe, China, Australia, and the USA.

Gothenburg, Sweden
Shanghai, China
Poole, UK
Canberra, Australia

Xiaobo Qu
Lu Zhen
Robert J. Howlett
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Xiaobo Qu is a Professor and research group leader at the Division of Geology and Geotechnics, research group Urban Mobility Systems, Chalmers University of Technology. Throughout his academic career, he has been endeavoring to practically improve transport safety, efficiency, equity, and sustainability through traffic flow modelling, network optimization, and most recently emerging technologies. In particular, his research has been applied to improvement of emergency services, operations of electric vehicles and connected automated vehicles, and management of vulnerable road users. He has authored or co-authored over 90 journal articles published at top tier journals in the area of transport engineering, and he is a recipient of many prestigious awards. His research has been supported by Australian Research Council Discovery Programme, Queensland Department of Transport and Main Roads, Sydney Trains, National Natural Science Foundation of China, Swedish Innovation Agency Vinnova, and European Union. Xiaobo is now an Associate Editor/Editorial Board Member for IEEE Trans on Cybernetics, IEEE ITS Magazine, Journal of Transportation Engineering ASCE, Transportation Research Part A, Computer-Aided Civil and Infrastructure Engineering, etc.

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Dr. Robert J. Howlett is the Executive Chair of KES International, a non-profit organization that facilitates knowledge transfer and the dissemination of research results in areas including Intelligent Systems, Sustainability, and Knowledge Transfer. He is a Visiting Professor at Bournemouth University in the UK. His technical expertise is in the use of intelligent systems to solve industrial problems. He has been successful in applying artificial intelligence, machine learning and related technologies to sustainability and renewable energy systems; condition

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