IEEE Open Journal of Intelligent Transportation Systems
Editor in Chief (Prof Dr Ir Bart van Arem)
Special Issue on:
"Advances on methods and technologies for Intelligent Transportation Systems"

Call for Papers

Over the past three decades, Intelligent Transportation Systems (ITS) have consistently attracted attention due to their ability to increase the performance of the transportation system. The effect of vehicle technologies and communication, as well as traffic management and control have been widely studied in the pertinent literature. However, the advances of Information and Communication Technology, data availability and the emergence of new mobility technologies have enriched the scope of ITS to address aspects of emerging mobility concepts.

Given the constantly changing landscape, this Special Issue aims at consolidating transformative state-of-the-art methods and technologies for ITS, paying special attention on the applicability of the methods for real world settings. Authors are asked to come up with original contributions (70% new content) in line with the IEEE Publication Policy. The technical areas include but are not limited to:

- Transport modelling and control under ITS
- ITS solutions for transport policies and transport analysis
- Model Calibration, simulation and tools for ITS
- ITS and multimodal transport systems
- ITS and public transport
- ITS and freight system
- ITS and big data
- Future Mobility data collection

- ICT and mobility
- MaaS and emerging trends in mobility
- ICT and mobility
- MaaS and emerging trends in mobility
- Sustainable mobility
- ITS for safer roads and mobility
- Rail operations and management
- ITS and smart cities

Submission deadline: Dec 15, 2021
Publication date: Mar 15, 2022

Papers will be published upon acceptance, regardless of the Special Issue publication date.

Guest editors:

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Constantinos Antoniou is a Full Professor in the Chair of Transportation Systems Engineering at the Technical University of Munich (TUM), Germany. He holds a Diploma in Civil Engineering from NTUA (1995), a MS in Transportation (1997) and a PhD in Transportation Systems (2004), both from MIT. His research focuses on modelling and optimization of transportation systems, data analytics and machine learning for transportation systems, and human factors for future mobility systems. In his 25 years of experience he has held key positions in a number of research projects in Europe, the US and Asia, while he has also participated in a number of consulting projects. Costas has a proven track record in attracting competitive funding in both national and international levels. He is/has been PI of several research projects (e.g. H2020 iDREAMS, MOMENTUM, Drive2thefuture, DFG DVanPool and Trampa), and has contributed considerably to the preparation of a large number of funded proposals, in the national and international level. He has authored more than 400 scientific publications, including more than 125 papers in international, peer-reviewed journals, 250 in international conference proceedings, 3 books and 20 book chapters. He is a member of several professional and scientific organizations, editorial boards (Member of the Editorial Board of Transportation Research – Part A: Policy and Practice, Transportation Research – Part C, Accident Analysis and Prevention, Accident Analysis and Prevention, Journal of Intelligent Transportation Systems, Smart Cities; Deputy Editor in Chief of IET Intelligent Transportation Systems; Associate Editor of Transportation Letters; Editor of EURO Journal on Transportation and Logistics).

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Raoul Rothfeld is a lecturer and research associate at the Chair of Transportation Systems Engineering at the Technical University of Munich (TUM), Germany. He holds a Bachelor of Arts in Aviation Management from the International University of Applied Sciences Bad Honnef - Bonn (IUBH, 2014), a Master of Science in Software Development from the University of Glasgow (2015), and is currently pursuing a PhD in modelling emerging transportation at TUM. His research focuses on modelling and simulation of existing and emerging transportation systems, such urban air mobility, i.e. the concept of utilizing novel electrified vertical take-off and landing vehicles for inter- and intra-urban passenger transport. He has worked on numerous European, national, and industry projects in the areas of electric-powered aerial passenger transport, aerial transport infrastructure, and transport modelling. He has authored more than 25 scientific publications in peer-reviewed journals, conferences, and books.