



**IEEE Open Journal of Intelligent Transportation Systems**  
**Editor in Chief (Prof Dr Ir Bart van Arem)**

**Special Issue on: “Selected papers of the 23<sup>rd</sup> International IEEE Conference on  
Intelligent Transportation Systems IEEE ITSC 2020”**

**ITSC 2020**

The IEEE Intelligent Transportation Systems Conference (ITSC) is the annual flagship conference of IEEE Intelligent Transportation Systems Society (ITSS). ITSC 2020 will be held on 20-23 September 2020 in Rhodes, Greece. This conference welcomes papers in the field of Intelligent Transportation Systems, dealing with new developments in theory, analysis, simulation and modelling, experimentation, demonstration, case studies, field operational tests and deployments. ITSC 2020 particularly invites and encourages prospective authors to share their work, findings, perspectives and developments as related to implementation and deployment of advanced ITS applications.

Original contributions and workshop proposals are solicited in all areas pertinent to Intelligent Transportation Systems. Selected papers of exceptional quality will be invited for submission to this special issue of the IEEE Open Journal of Intelligent Transportation Systems. Authors will be asked to extend their papers (70% new content) in line with the IEEE Publication Policy.

The technical areas include but are not limited to:

- Intelligent vehicles
- Automated and autonomous systems
- Cooperative Intelligent Transportation Systems (C-ITS)
- Information and communication technologies
- Field trials, tests and deployment
- Sensor technologies
- Traffic control and management
- Security, privacy and safety systems
- Smart mobility
- Products and services
- Modelling, control and simulation algorithms and techniques
- Air, road, rail, waterways transportation network and systems
- Logistics and supply chain
- Big data and naturalistic datasets
- Deep learning and Artificial Intelligence
- Human factors and behavioral modeling

**Submission deadline: February 26, 2021 ; Publication date: May 31, 2021**

Papers will be published upon acceptance, regardless of the Special Issue publication date. Extended and revised papers from IEEE ITSC 2020 (20-23 September 2020, Rhodes, Greece, <https://www.ieee-itsc2020.org>) will be accepted. Paper Submission Link: <https://mc.manuscriptcentral.com/oj-its> (open from November 1, 2020, choose manuscript type ITSC20)

**Guest editors:**

Prof. Eleni I. Vlahogianni  
Prof. Matthew Barth  
Emmanouil Chaniotakis

National Technical University of Athens (NTUA)  
University of California, Riverside (UCR)  
University College London (UCL)

Greece  
U.S.A.  
United Kingdom

**Eleni I. Vlahogianni** is an Associate Professor at the Department of Transportation Planning and Engineering of the National Technical University of Athens (NTUA). She is Associate Editor in the *Transportation Research Part C: Emerging Technologies*, the *International Journal of Transportation Science and Technology* and the *IEEE Intelligent Transportation Systems Magazine*. She serves as a Member of the International Committee on Artificial Intelligence and Advanced Computing Applications of the Transportation Research Board. She is a Member of the Board of Governors of the IEEE ITS Society. She is the Chair of the IEEE ITSS Technical Committee on Smart Mobility and Transportation 5.0.

**Matthew Barth** is the Yeager Families Professor at the College of Engineering, University of California-Riverside. He is part of the intelligent systems faculty in Electrical and Computer Engineering and is also the Director for UCR's Center for Environmental Research and Technology (CE-CERT). He is Senior Editor for both the IEEE ITSS Transactions on Intelligent Transportation Systems and the Transactions on Intelligent Vehicles. He has over 400 peer-reviewed publications, mainly in the field of Intelligent Transportation Systems, and in particular how it relates to energy and air quality issues. He is a past President of the IEEE ITS Society and is currently serving on the Executive Board. His current research interests include ITS and the Environment, Transportation/Emissions Modeling, Vehicle Activity Analysis, Advanced Navigation Techniques, Electric Vehicle Technology, and Advanced Sensing and Control.

**Emmanouil (Manos) Chaniotakis** is a Lecturer (Assistant Professor) in Transportation Modelling and Machine Learning at MaaSLab, UCL Energy Institute, University College London (UCL), United Kingdom. His research focuses on modelling and simulation of transportation systems, including conventional and emerging transportation systems, demand modelling, and machine learning in transportation. He has worked on numerous European and national projects in the area of transport modelling and machine learning and he has been involved in consulting projects for establishment of strategic and operational transport models, estimation of behavioural models as well as the investigation of impacts of new mobility services. He has authored more than 30 scientific publications in peer-reviewed journals, conferences and books. He is a member of several professional and scientific organizations and a frequent reviewer for many scientific journals and conferences.