



27th IEEE International Conference on Intelligent Transportation Systems

September 24- 27, 2024
Edmonton, Canada

IEEE ITSC 2024



The 27th IEEE International Conference on Intelligent Transportation Systems (IEEE ITSC 2024) is the annual flagship conference sponsored by the IEEE Intelligent Transportation Systems Society (ITSS). It includes various invited sessions, workshops, tutorials, and regular paper submissions. The conference welcomes articles and presentations in the field of Intelligent Transportation Systems (ITS), conveying new developments in theory, analytical and numerical (including high-fidelity) simulations, modeling, experimentation, advanced deployment and case studies, and results of laboratory or field operational tests. IEEE ITSC 2024 particularly invites and encourages prospective authors to share their recent work, findings, perspectives, and developments as related to implementation and deployment of advanced ITS applications.

Topics of Interest

The topics of interest include, but are not limited to:

- Machine learning and deep learning in ITS
- Control & state estimation theories with applications to ITS
- Networked control systems for ITS
- Advanced road transportation management
- Communication and network in ITS
- Air and rail traffic management
- Social transportation
- Connected and autonomous vehicles
- Resilience of networked land/aerial vehicular systems
- Security, privacy and safety systems in ITS
- Parallel transportation systems
- Automated driving systems (ADS) – safety and reliability
- Traffic theory for ITS
- Human factors in ITS
- Management of corner events in ITS
- Intelligent mobility and intelligent logistics
- Naturalistic driving datasets
- Parallel driving and parallel testing
- Social cognitive autonomous driving
- Safety of the intended functionality (SOTIF) in ADS
- Advanced vehicle safety systems
- Driver and traveler support systems
- New trends in ITS
- Smart cockpits
- Shared mobility
- Education in ITS
- Public policy, regulatory and societal issues in ITS

Submission:

Complete manuscripts in PDF must be submitted electronically. Detailed instructions for authors can be found on the conference website: <https://iee-itsc.org/2024/>

Organizing committee

General chair:

- Ehsan Hashemi, University of Alberta, Canada

Program chair:

- Jonas Mårtensson, KTH, Sweden

Publication co-chairs:

- Mohammad H. Mamduhi, Univ. of Alberta, Canada
- Abolfazl Lavaei, Newcastle University, UK
- Ting Bai, KTH, Sweden

Invited sessions co-chairs:

- Nathan van de Wouw, TU Eindhoven, Netherlands
- Chen Lv, Nanyang Technology University, Singapore
- Hong Wang, Tsinghua University, China

Workshops and tutorial sessions co-chairs:

- Hamid Taghavifar, Concordia University, Canada
- Rahul Mangharam, Univ. of Pennsylvania, USA
- Yechen Qin, Beijing Institute of Technology, China

Finance chair:

- Brendan Morris, University of Nevada, USA

Publicity co-chairs:

- Ahmed Hussein, IAV GmbH, Germany
- Neel P. Bhatt, U of Texas at Austin & Univ. of Alberta

Industry co-chairs:

- Silvia Siri, University of Genova, Italy
- Karim El-Basyouny, University of Alberta

Chair for diversity & inclusion:

- Cecilia Caterina Pasquale, University of Genova, Italy

Student activities co-chairs:

- Seama Koochi, University of Alberta, Canada
- Tae J. Kwon, University of Alberta, Canada

Awards and competitions chair:

- Xin Xia, University of Michigan (Dearborn), USA

Conference Deadlines:

April 22, 2024: Proposals due for invited sessions

May 01, 2024: Submission due for regular and invited session papers

June 17, 2024: Proposals due for workshops & tutorials

July 10, 2024: Decision notification

July 31, 2024: Final paper submission deadline