

Call for Workshop Papers

Workshop on Modular Autonomous Vehicles (MAVs)

Modular Autonomous Vehicles (MAVs) can revolutionize the way people and goods are transported in various urban and industrial settings. This workshop aims to bring academic and industrial scientists and researchers to share their knowledge and experiences in MAVs research, development and applications. Original research and review articles related to the planning, design, operation, control, management, maintenance, and technological aspects of MAVs will be considered. All aspects of mathematical modelling, computer simulation, statistical analysis, economic analysis, and empirical studies are of interest. We particularly welcome submissions with a focus on the implementation and field testing of new methods and technologies for MAVs.

■ Topics of Interest:

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

- Planning and operations of MAVs-based innovative transport systems
- MAVs for shared passenger and goods transport
- Vehicle trajectories planning and platooning optimization of MAVs
- Advanced modelling, simulation and control of MAVs
- Integrating MAVs into a multimodal transportation system
- Planning and operations of first/last-mile transport service with MAVs
- Operations control of MAVs for safety, reliability and resilience improvement
- Traffic signal priority technologies for MAVs
- V2V and V2I technologies for MAVs
- Infrastructure planning, charging technologies, and charging scheduling of MAVs
- MAVs for future mobility and smart city
- Governance, policy, ethics, and regulations of MAVs
- Field testing and evaluation of MAVs

■ Submission Guidelines:

Authors are invited to submit original research papers presenting new and innovative theories, methods, technologies, applications and discoveries related to the aforementioned topics. All submissions should follow the IEEE IV 2024 submission author guidelines and can be uploaded through the conference website <https://its.papercept.net/conferences/scripts/start.pl> When submitting papers to this workshop, please ensure that you include the workshop code: **ModularAutonomousVehicles**.

■ Important Dates:

- Submission Deadline: **February 1, 2024**
- Notification of Acceptance: March 30, 2024
- Final Paper Submission: April 22, 2024

■ Workshop Organizers:

- Kai Liu, Dalian University of Technology, China
- Meng Meng, University of Bath, UK
- Qingyun Tian, Nanyang Technological University, Singapore
- Tao Liu, Southwest Jiaotong University, China
- Wenbo Fan, Southwest Jiaotong University, China
- Yu Jiang, Lancaster University, UK
- Zhichao Cao, Nantong University, China
- Zhiwei Chen, Drexel University, USA

We look forward to your contributions and seeing you at our workshop during the IEEE IV 2024!

You can find more detailed information through the IEEE IV 2024 website <https://ieee-iv.org/2024> For further inquiries, please feel free to contact us by email tao.liu@swjtu.edu.cn