



IEEE IV 2025

36th IEEE Intelligent Vehicles Symposium

June 22 - 25 2025

Grand Hotel Italia,
Cluj - Napoca, Romania

www.ieee-iv.org/2025



Important dates

Paper Submission Deadline

February 01, 2025

Notification of Acceptance

March 30, 2025

Final Paper Submission

April 25, 2025

All deadlines are final and there will be no extensions.

You can find more detailed information through the IV 2025 Website IEEE IV 2025 CFP

The IEEE INTELLIGENT VEHICLES SYMPOSIUM (IV 2025) is the premier annual forum organized by the IEEE Intelligent Transportation Systems Society (ITSS). IV 2025 will take place in Cluj-Napoca, Romania. Researchers, academics, and practitioners from universities, industry, and government agencies are invited to submit their latest research papers, simulation challenges, and applications on Intelligent Vehicles and Intelligent Vehicle Infrastructures. The symposium will feature Plenary Talks, Technical Sessions, Poster Sessions, Tutorials, Workshops, Exhibitions, and Industrial Demonstrations and Challenges. Also, it will provide a memorable Social Program to all participants around the world. Authors are invited to submit full-length papers up to 6 pages for technical content including figures and references. Additional pages will be charged at the rate of \$100 per page and is limited to two pages per paper. Each accepted paper must be covered by at least one non-student registration. Additional papers by the same authors will be charged at the flat rate of \$400 per paper

Call for papers / Topics of Interest

Advanced Mobility Systems

- Advanced Driver Assistance Systems
- Automated and Autonomous Vehicles
- Future Mobility and Smart City
- Smart Infrastructure for Automated Vehicles

Localization and mapping

- Sensor Fusion for Localization
- Integration of HD map and Onboard Sensors
- SLAM (Simultaneous Localization and Mapping)

Connected and Cooperative vehicles

- Cooperative Perception and Localization
- Cooperative Scene Understanding
- Cooperative Planning and Control
- Cooperative Fusion for (Mis)Behavior Assessment
- Vehicle-To-Everything (V2X) and Cellular V2X (C-V2X) Communications
- Secure and Efficient Over-The-Air (OTA) Updates

Datasets

- Automotive
- UAV
- Dataset Adaptation to Target Domain
- Model Adaptation to Target Domain

Neural Scene Representation in Automated Driving

- Scalable Neural Scene Representation
- Semantic Understanding and Decision-Making with Neural Fields
- Integrating Diverse Data Sources (e.g HD maps, LIDAR) in Neural Scene Representations
- Application of Neural Fields in Autonomous Driving
- Dataset Augmentation Using Neural Fields

Planning & Control

- Intelligent Vehicle Control
- Planning and Decision Making
- End-to-end Motion Planning
- Trajectories Prediction
- Ethics Integration in Advanced Planning and Decision Making

Safety & Security

- Active and Passive Vehicular Safety
- Collision Avoidance
- Pedestrian and Vulnerable Road Users' Protection
- Self-diagnosis and Systems Supervision
- Simulations and Real World Testing Methodologies
- Intelligent and Safe Vehicle Software Architecture

Intelligent Unmanned Aerial Vehicles

- Remote Sensing & Perception & Scene
- Understanding from UAVs
- UAVs Planning and Control

Human Interaction and Factors

- Driver State and Intent Recognition
- Human Factors for Intelligent Vehicles
- Teleoperation of Intelligent Vehicles
- Infotainment Systems and HMI Design

Sensing, perception and scene understanding

- Advanced Sensing and Perception: Image, Radar, Lidar
- Multisensory Fusion for Advanced Perception
- Perception in Adverse Conditions
- Scene Understanding