



# IEEE IV 2024

## 35th IEEE Intelligent Vehicles Symposium

June 2 - 5, 2024

Jeju Shinhwa World, Jeju Island, Korea

### Call for Paper and Call for Workshop Papers

**Happy New Year!** We're excited to invite you to the upcoming IEEE Intelligent Vehicles Symposium (IV 2024). We are diligently preparing a diverse program, featuring Plenary Talks, Technical Sessions, Poster Sessions, Tutorials, Workshops, an Exhibition, and Industrial Demo Challenges.

### Call for Papers

We are receiving Papers from around the world!  
Don't miss this extraordinary opportunity to be part of the congress scientific program.

### Topic of Interest

#### Vehicle Automation and Control

- Advanced Driver Assistance Systems (ADAS)
- Automated Vehicles
- Vehicle Control and Motion Planning
- End-To-End (E2E) Autonomous Driving

#### Sensing and Perception

- Sensor Signal Processing
- Perception Including Object Event Detection and Response (OEDR)

#### Localization

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

#### Safety and Protection

- Vehicular Active and Passive Safety
- Pedestrian Protection
- Functional Safety in Intelligent Vehicles

#### Infrastructure

- Smart Infrastructure
- Integration of Infrastructure and Intelligent Vehicles

#### Human Interaction and Factors

- Teleoperation of Intelligent Vehicles
- Human Factors for Intelligent Vehicles
- Infotainment Systems and Human-Machine Interface Design

#### Software-Defined Vehicle

- Software-Defined Vehicle for Intelligent Vehicles
- Integration of Onboard Systems and Cloud-Based Services

#### Connectivity

- Cooperative Vehicles
- Vehicle-To-Everything (V2X) and Cellular V2X (C-V2X) Communications
- Secure and Efficient Over-The-Air (OTA) Updates

#### Efficiency and Energy Systems

- Eco-Driving and Energy-Efficient Vehicles
- Wireless Power Transfer Systems for Mobility
- Battery Management Systems and State-of-Charge (SoC) Estimation

#### Emerging Technologies and Future Mobility

- Future Mobility and Smart City
- Automotive Cyber Physical Systems
- Drone and Urban Air Mobility
- Applications of Quantum Computing, Blockchain to Intelligent Vehicles

#### Testing and Validation

- Simulation and Real-World Testing Methodologies
- Verification and Validation Techniques

#### Other Issues in Intelligent Vehicles

- Policy, Ethics, and Regulations
- Security and Privacy

### Call for Workshop Papers

### Accepting Workshop Papers

No.	WS Code	Workshop Title
1	IndustryPanelOn Cooperative	The 12th Workshop and Industry Panel on Cooperative and Automated Driving
2	InnovationInDriver Safety	Innovation in Driver Safety: Cloud-Based Driver Monitoring System Workshop By Amazon Web Services®
3	Small-scaleTestbeds	1st Workshop on Small-scale Testbeds for Connected and Automated Vehicles and Robot Swarms
4	UAVsupported RoadTraffic	UAV supported road traffic safety and ADS deployment
5	TrustCalibration	Workshop on Trust Calibration and Feedback Generation in AI-Enabled Vehicle Systems(IEEE ITSS Workshop Series of Human-Centered AI in Transportation)
6	RemoteOperation	Workshop on Remote Operation of Intelligent Connected and Automated Road Vehicles
7	Interaction-driven Behavior	Interaction-driven Behavior Prediction and Planning for Autonomous Vehicles
8	IntelligentConnected Vehicles	Intelligent Connected Vehicles Based on Advanced Communication Technologies
9	ApplicationOfIntelligent Infrastructure	1st Workshop on Application of Intelligent Infrastructure for Automated Driving :Supported and Guided Driving - from Technical Challenges to Evaluation on Test Areas and Proving Grounds
10	ModularAutonomous Vehicles	Workshop on Modular Autonomous Vehicles (MAVs)
11	SAFE-DRIVE	SAFE-DRIVE: Data-Driven Simulations and Multi-Agent Interactions for Autonomous Vehicle Safety.
12	DataDrivenIntelligent	5th Workshop on Data Driven Intelligent Vehicle Applications (DDIVA)
13	Intelligent Transportation	4th Workshop on Intelligent Transportation Systems, Intelligent Vehicles and Advanced Driver Assistant Systems for Unstructured Environments (ITSIVUE 2024)
14	BridgingTheGap	3rd Workshop on Bridging the Gap between Map-based and Map-less Driving
15	Off-RoadAutonomy	Workshop on Off-Road Autonomy
16	SociallyInteractive	The 2nd International Workshop on Socially Interactive Autonomous Mobility (SIAM)
17	Autoware	Autoware – ROS-based OSS for Autonomous Driving
18	InfrastructureSupport	Infrastructure Support and Impact in Autonomous Vehicle Deployment
19	AreYouHappy	Are You Happy with AV? The 3rd Workshop on User Experience (UX) in AV-Human Interaction
20	PracticesAnd Benchmarking	Practices and Benchmarking of Digital Infrastructure Support for Automated Mobility Services

Please **make sure to indicate the WS code for the workshop paper submission in PaperCept**. The remaining submission process is the same as regular submissions.

**Deadline is February 1st, 2024**

**Find More Information**