IEEE IV 2024
35th IEEE INTELLIGENT VEHICLES SYMPOSIUM

June 2 Sun. – 5 Wed. 2024
JEJU SHINHWA WORLD, Jeju Island, Korea

Experience the Technologies Accelerating Future Mobility!
THE IEEE INTELLIGENT VEHICLES SYMPOSIUM (IV 2024) is the premier annual conference organized by the IEEE Intelligent Transportation Systems Society (ITSS). IV 2024 will be held in Jeju Island, Korea and will feature Plenary Talks, Technical Sessions, Poster Sessions, Tutorials, Workshops, Industry Exhibition and Demos, and Autonomous Racing Mini-Car Competitions by students. IV 2024 invites latest research papers to present and industry participation for exhibition and demonstrations, and, up to present, proposals of a number of workshops and several tutorials on the cutting-edge technologies in intelligent vehicles have been submitted. In addition to the conference paper presentations, IV 2024 is preparing a unique program to invite author presentations of high-quality and popular articles published with the IEEE Trans. on ITS, IEEE Trans. on IV, IEEE Trans. on VT, and other relevant transactions of IEEE. IV 2024 will be a unique opportunity to learn, discuss, and share the recent advancements and innovations in intelligent vehicles with people from academia, automotive related industries, and governments around the world.

Call for Papers

**Topics**

**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

**Important Dates**

<table>
<thead>
<tr>
<th>Paper Submission Deadline</th>
<th>Notification of Acceptance</th>
<th>Final Paper Submission</th>
</tr>
</thead>
<tbody>
<tr>
<td>February 01, 2024</td>
<td>March 30, 2024</td>
<td>April 22, 2024</td>
</tr>
</tbody>
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All deadlines are final and there will be no extensions.

You can find more detailed information through the IV 2024 Website IEEE IV 2024 CFP.