

Call for Workshop Papers for IEEE Intelligent Vehicles Symposium IV'24

Title: Infrastructure Support and Impact in Autonomous Vehicle Deployment

Main Contact Person / Organizers:

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Type of Workshop:

Half-day

Objectives:

This workshop will explore the critical intersection between autonomous vehicles (AVs) and infrastructure support. It is designed to foster discussions on the challenges and opportunities emerging from the unique demands AVs place on road infrastructure and the systemic adaptations required to support their deployment. We will explore novel research findings, engage in thought-provoking discussions, and provide networking opportunities for academics, industry professionals, and policymakers interested in the future of AV infrastructure. We aim to bring together a multidisciplinary group to discuss:

- **Innovative Infrastructure Solutions:** Examining how infrastructure can evolve to accommodate AVs, focusing on technological advancements, design modifications, and smart city integration.
- **Policy and Regulation:** Addressing the regulatory landscape and its impact on both AV deployment and infrastructure development.
- **Safety and Security Considerations:** Delving into how infrastructure improvements can enhance the safety and security of AV operations.
- **Environmental Impact:** Assessing the environmental implications of AVs and how infrastructure can mitigate negative impacts.
- **AV Impact on Physical Infrastructure:** Exploring the direct effects of AVs on the physical aspects of roadways and urban infrastructure, including wear and tear, required modifications for AV navigation, and potential infrastructure upgrades.

Sponsor/Support:

TRB AKR10 Committees on Maintenance and Operations Management

Expected Attendance:

We anticipate attracting a diverse group of participants, including researchers, practitioners, and decision-makers from academia, industry, and government sectors who share an interest in AV technology and infrastructure. We estimate approximately 50-100 attendees.

Special Requests:

We request the necessary technical setup for presentations, including a projector, screen, microphones, and internet access. Additionally, we would appreciate assistance with organizing the necessary refreshments for the coffee break.