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Special Session on
"Safe and Energy Efficient Control of Intelligent Vehicles"

organized by

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Call for Papers

The future holds great potential for intelligent, connected, and autonomous vehicles. They have the potential to dramatically reduce the number of accidents resulting from human error, and to incorporate advanced controllers that improve traffic flow to reduce congestion, maximise energy-efficiency and reduce associated CO2 emissions.

This special session aims at bringing together researchers at ICM 2023 interested in advanced control and estimation methods for intelligent and connected vehicles that could lead to improvements in safety, traffic congestion, or energy-efficiency, to share techniques and drive collaboration and future development. Topics of interest include:

- Fuel efficient driving (eco-driving)
- Advanced driver assistance systems (ADAS)
- Autonomous driving
- Vehicle platooning
- Automotive control systems
- V2X-based motion planning and eco-routing
- Cooperative driving in a partially connected environment
- Energy management of electric CAV
- Resilient estimation and control strategy for CAV coordination
- Modelling and advanced simulation of cooperative driving

IES Technical Committee Sponsoring the Special Session (if any):

N / A