Special Session on

Innovative Vehicle Motion Control:
Emphasizing Smart and Energy-efficient Solutions

Organizers:
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Technical Outline of the Session and Topics:
Contemporary automotive technologies are profoundly shaped by the emergence of safe, environment-friendly and human-centric smart technologies. Consequently, there is a strong movement towards converting conventional passenger cars and commercial vehicles into complex systems seamlessly linked to the environment, infrastructure, and users, through multiple information channels. Within this context, the proposed special session aims to establish a research platform for the generation and exchange of ideas and results achieved in areas associated with cutting-edge technologies for automated, electric, and connected vehicles and their corresponding systems.

Topics of interest include, but are not limited to:
- Electric vehicles
- Software-defined vehicles
- Automated vehicles with and without pilot/driver
- Automotive mechatronics
- Vehicle dynamics and control
- Advanced chassis and powertrain systems
- Advanced driver assistance systems
- Sensing, estimation and actuation for automotive applications
- Sensor fusion technologies and environment perception.

IEEE IES Technical Committee Sponsoring the Special Session
- Technical Committee on Motion Control