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Advancements, Challenges, and Opportunities in Electrified Mobility and Transport Systems

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Abstract

The transport sector is one of the main contributors to environmental degradation, accounting for almost 30% of all energy consumption globally. Electrified mobility has emerged as a promising solution to mitigate the environmental footprint of transportation systems and reduce dependence on fossil fuels.

In this context, this special session aims to explore the latest advancements, challenges, and opportunities in electrified mobility. From electric vehicles (EVs) to infrastructure development and policy frameworks, this session will delve into various aspects of electrified mobility and its implications for sustainable transportation.

The list of topics of interest includes, but is not limited to, the following:

1. Autonomous and Connected Electric Vehicles
2. Energy-efficiency in transportation systems
3. Mobility-as-a-Service (MaaS)
4. ITS for sustainable mobility
5. Rail and transit mobility systems
6. Environmental impact of transport systems
7. Shared mobility systems
8. Micro-mobility systems