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# Dynamic Modeling in Electrified Transportation Systems

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## Abstract

The rapid expansion of electrification in transportation systems necessitates the development of advanced modeling techniques to effectively capture and predict dynamic behaviors and system complexities.

With such a large shift towards sustainable and efficient mobility solutions, dynamic system modeling is beneficial in addressing the continuously evolving nature of electrified transportation systems.

Dynamic modeling techniques, such as digital twins and adaptive observers (to name a couple) offer promising approaches to enabling robust performance while ensuring system optimization and resilience.

This special session aims to explore recent advancements, methodologies, and applications of dynamic system modeling in electrified transportation systems.