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Decision Intelligence for Energy Management in Intelligent Transportation Systems

As electric vehicle adoption grows, effective energy management must address grid capacity, charging infrastructure, cost, and reliability. This presentation introduces a practical decision-support framework for evaluating EV charging strategies before deployment. Combining automotive validation experience with doctoral research, it examines when conventional optimization is sufficient and when AI-based methods offer clear benefits. Examples from HIL/SIL testing, battery management, and EV charging illustrate the path from research to production-ready intelligent transportation systems.



Zainab Maghraby

Zainab Maghraby is a Senior Staff Engineer at Avelabs with over ten years of experience in automotive system validation, HIL/SIL testing, software quality, and test automation for connected and electric vehicles. Her expertise spans battery management, charging systems, diagnostics, communication networks, and software integration. She is pursuing a PhD at Universitat Autònoma de Barcelona, focusing on AI-based energy management for electric vehicle charging under shared grid-capacity constraints. Her research combines artificial intelligence, optimization, and practical engineering to support sustainable and reliable transportation systems.

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