

CHARGE: Charging and Trip Planning of Electric Vehicles



The Goal of the Project:

Intelligent trip planning system for electrified vehicles

- Improve real-world energy efficiency and reduce fast charging time
- Use real-time data from the navigation system and charging stations to increase utilization of the charging infrastructure
- Balance cost, total trip time, and energy consumption

Expected Result:

- Models of vehicle, driving mission and charging events
- A real-time implementable, intelligent trip planning algorithm
- A distributed intelligent trip planning algorithm for a vehicle fleet
- Charging concepts and pricing mechanisms for EVs charging
- In-vehicle algorithm implementation and demonstrations

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