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Routing a Mix of Conventional, Plug-in Hybrid, and Electric Vehicles

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Highlights

- We investigate a vehicle routing and fleet mix problem with multiple vehicle classes
- Conventional, plug-in hybrid, and electric vehicles can be used
- We introduce a hybrid genetic algorithm based on layered route evaluation procedures
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- Our experiments show that fleet-mix optimization is essential for profitability
- Optimized fleets often rely on a few hybrid plug-in vehicles to gain flexibility

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