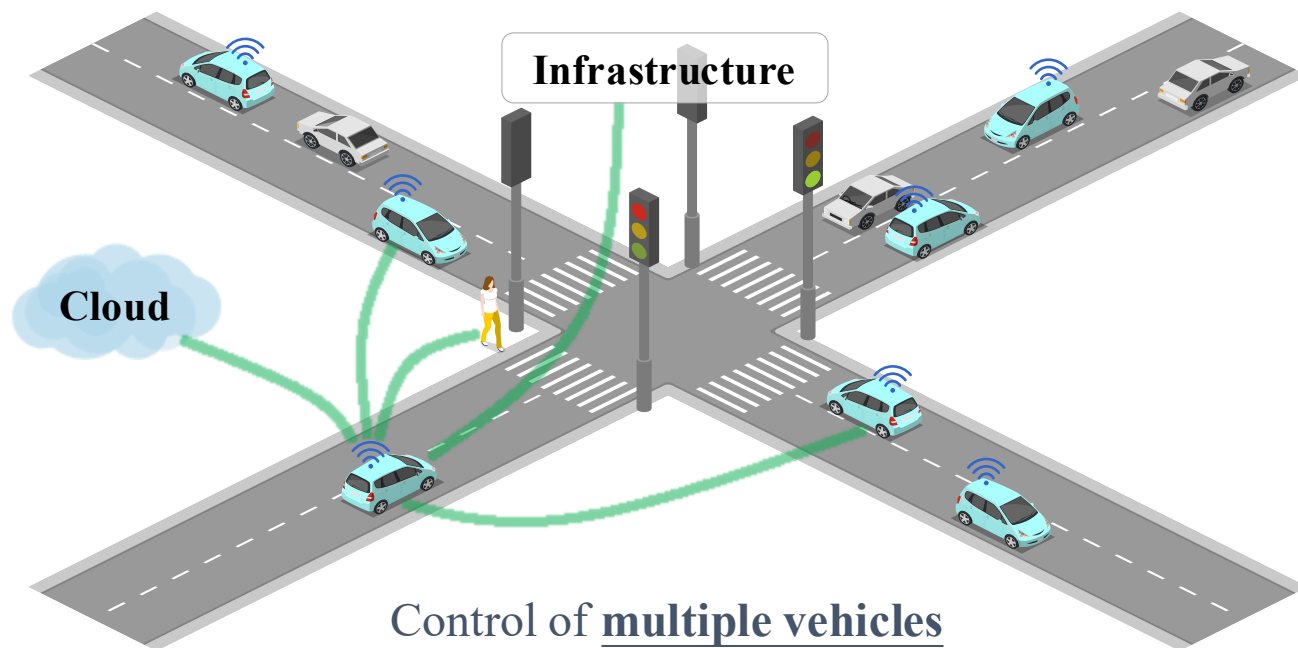
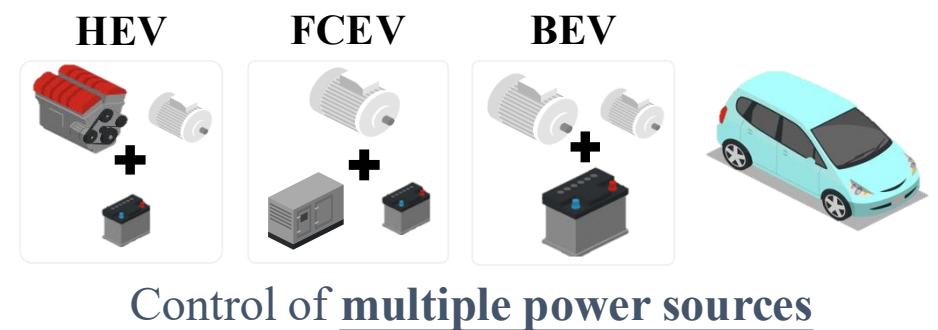


Connected, Automated, and Electrified Vehicles (CAEVs)

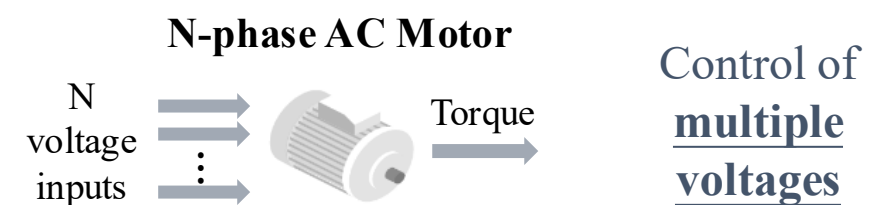
Network-Level



Vehicle-Level



Component-Level



Optimal Control

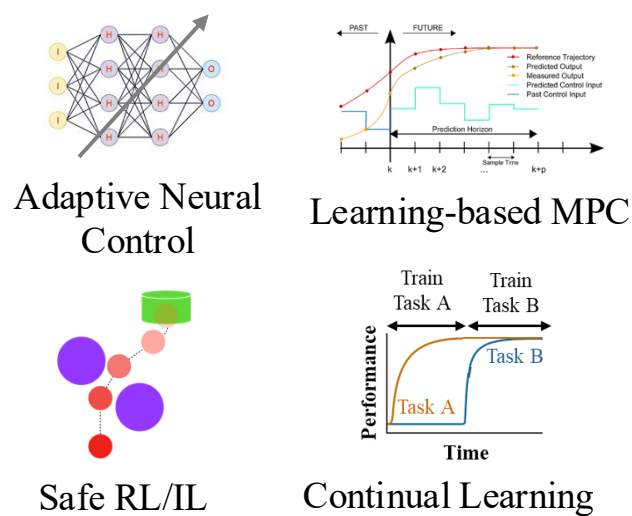
Find Control input

To minimize Performance Index
(e.g., Energy use)

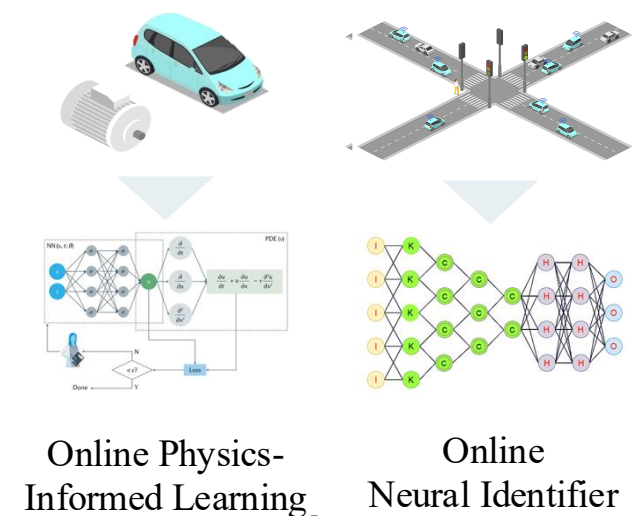
Subject to Control constraints
System dynamics
Environmental conditions

Learning-Based Control

Policy Learning



Model Learning



Optimal and Learning-Based Control