



Optimizing Signalized Intersection Operations with Automated and Conventional Vehicles

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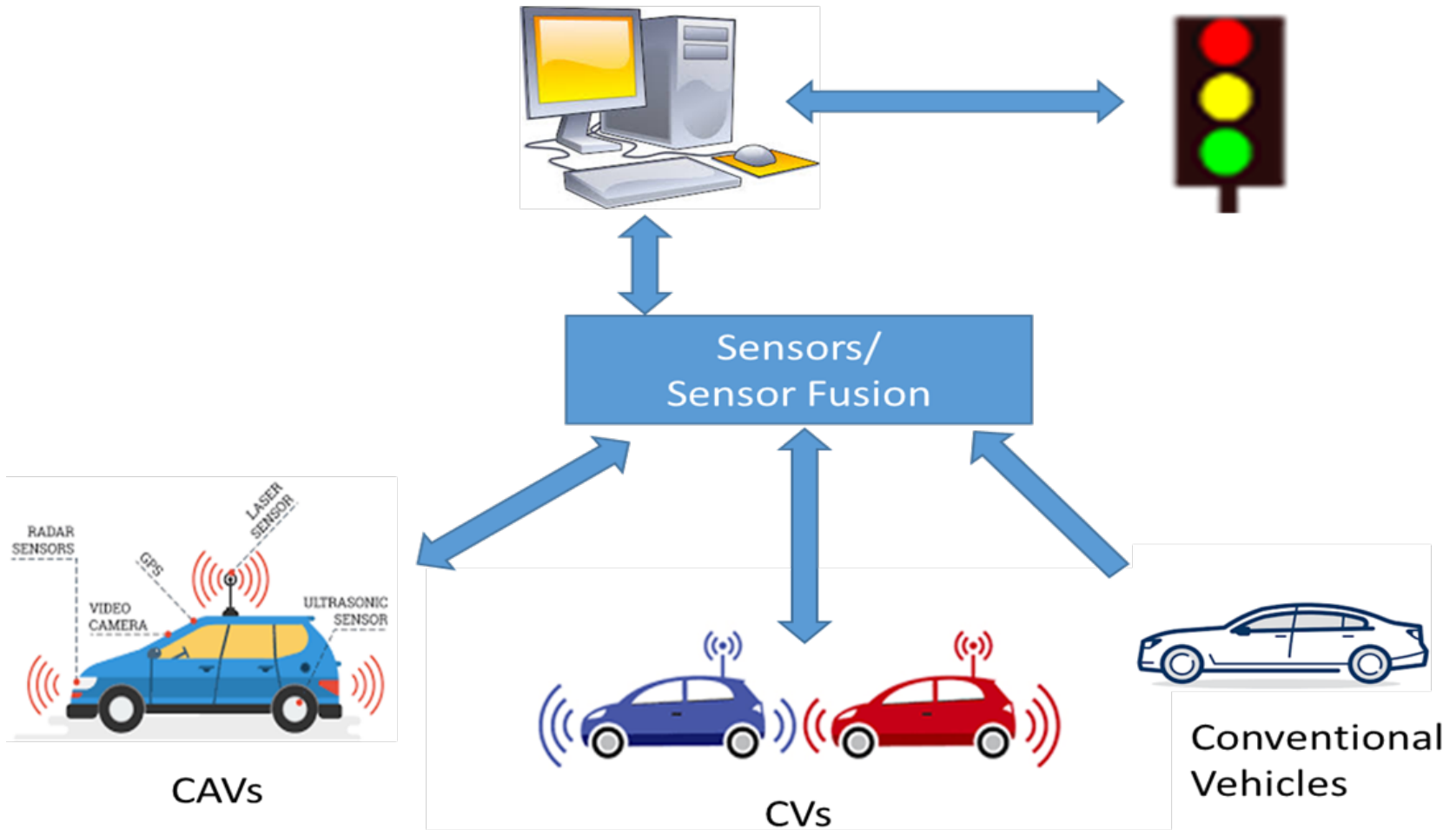
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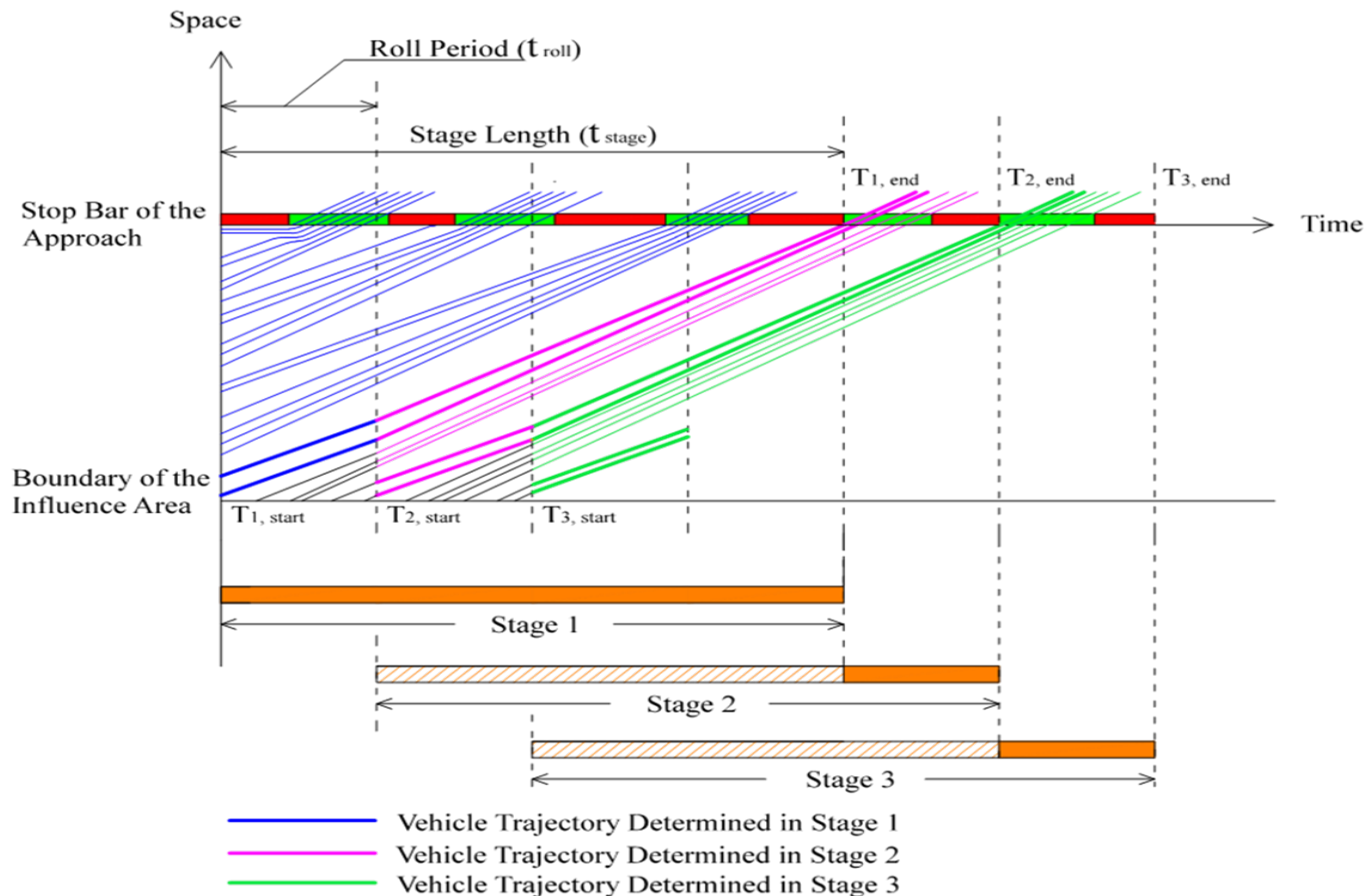
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Description of Concept



Research Approach and Findings

- Joint optimization of signal control and CAV trajectories, and sensor fusion
- Frequent re-optimization required to account for unexpected driver behavior
- Evaluated various optimization approaches – Minimum Cost Flow selected



Real-World Deployment at UF

- Research will be implemented in the Spring 2020 at the intersection of Gale Lemerand Drive and Stadium Road on the UF campus.
- FDOT permit obtained and testing is coordinated with the City of Gainesville and the UF Administration.
- Field testing and implementation uncovered many new issues.

