Location Awareness and Traffic Light Scheduling

Scott Mitchell, Jonathan Lewis

CS Department
Problem Domain

• Traffic light scheduling is archaic w.r.t context
• Provide traffic light scheduling with location data of cars within proximity
• Provide users with traffic light scheduling information
  – Avoid having to stop
End Result

• Software simulated intersections
• Transfer of information between traffic light scheduler and client cars simulated to provide proof of concept
• Different scenarios to test flexibility of scheduler provided different context and configurations
Current State

• Research wireless communication links for local communication

• Design considerations for scheduling algorithm
  – Retain generality, extract features from process/resource scheduling algorithms

• Design considerations for simulation environment
  – Interfaces for ideal context