Area Traffic Control System

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- 1. Traffic signals: how they work?
 - Traffic signal controller
 - Functions of traffic signal controller
 - Traffic engineering terminology
 - Traffic detectors
 - Inductive loop detectors
 - Magnetometers
 - Video based detectors
 - Microwave detectors
 - Power and communication
 - Communication standards
 - Typical site plans

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- 2. Adaptive traffic control
 - Main principles
 - Heuristic based systems
 - Optimisation based systems
 - Delay models
 - Optimisation methods
 - Bus priority & selective vehicle priority
 - Rule engines
 - Hurry calls and over-rides
 - Stand-alone
 - Vehicle Actuated
 - MOVA
 - Area traffic control system examples
 - SCOOT
 - CoSiCoSt
 - Others
- 3. Area Traffic Control System demo (online)