Useful information

* A swarm intelligence optimization algorithm
* Great for solving complex optimization problems nonlinear, high-dimensional search space

Optimization for traffic congestion control

* Minimize vehicle wait time, travel time, and traffic density
* Maximize throughput, signal efficiency, and lane utilization
* Objective Function: Total average waiting time or queue length
* Constraints: Minimum/maximum green time, pedestrian needs, legal cycle times
* Dynamic Vehicle Routing
* Ramp Metering Control

Concepts to think about with the utilization

* Leaders/producer
* Followers/Scroungers
* Guards/Warners