

Optimize Integration of Software-Defined Networking and Mobile Edge Computing in Vehicular Network with Reinforcement Learning

Chang-Lin Chen

August 7, 2020

1 Description

- Consider latency minimization and efficient resource utilization for a vehicular network with road side units, base stations, and vehicles.
- Software defined networking is considered here to enable network function virtualization for efficient and flexible computation resource utilization. Mobile edge computing is incorporated to further reduce the latency for vehicles to finish their tasks.
- Design the communication, computation, and caching model and formulate the optimization problem.
- Use reinforcement learning and network and traffic simulators to solve the optimization problem.