

Connecting Vehicles to the Internet

Motivation

Continuous Internet Access for Vehicles

- Entertainment during automated driving
- Satisfy quality of service requirements

Challenges

Fast Movement in Heterogeneous Networks

- Connection interrupts on change of network
- Select best suited network for transmission

Contributions

Intelligent Connection Management

- Distributed and scalable mobility management with fast and seamless connection handover
- QoS-aware data flow management with anticipatory long-term data traffic planning
- Responsive in-situ traffic plan adaptation to master uncertainty of estimated inputs

Intelligent Connectivity Management

Mobility Management

Data Flow Management



Tobias Rückelt

