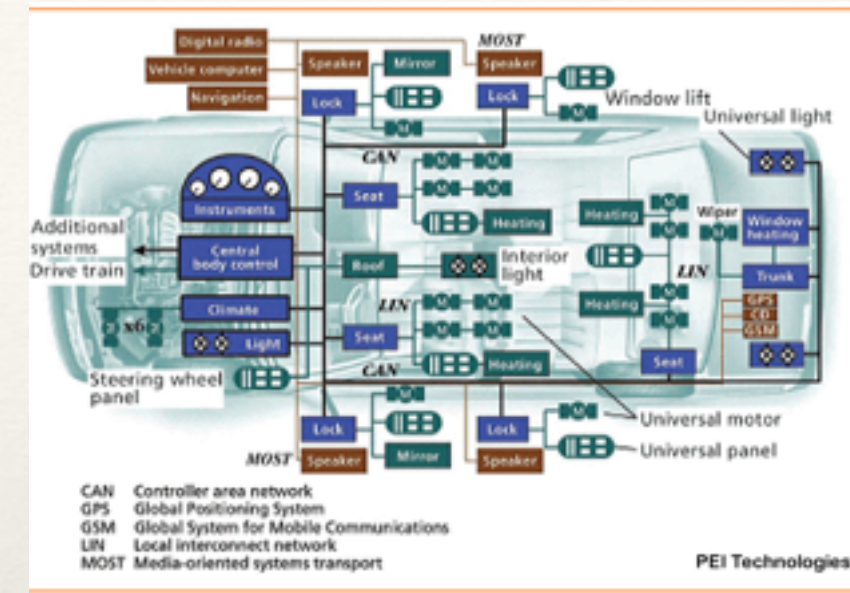


Model Checking of Automotive System in the Presence of Multiple Communication Protocols

Automotive system is a distributed control system to realize a variety of functions with electronic components in the vehicle.

- Multimedia control function MOST
- Braking control function CAN
- Body control function LIN
- Adoptive cruise function FlexRay



How to check the communication between different protocols of subsystems?

We proposed a framework to verify the communication between two environments by a gateway. One environment represents a protocol subsystem with arbitrary topology and the number of nodes. Messages can be sent at any time. The gateway receives messages from an environment and forwards messages to other environments.

