



Bachelor Thesis

Selective Data Transmission: A Request-Driven Approach for Efficient Messaging in Automotive Middlewares

Your Task

- Separate messages into separate fields by implementing a type system (similar to the one in MPI).
- Implement if time suffices a method to send only continuously requested fields and implement rarely requested fields using RPC.
- Evaluate the approach against a state of the art middleware and measure performance.

Your Profile

- Knowledge of C/C++ or similar programming languages.
- Experience with Linux and the ability to read and understand Linux kernel documentation.
- Demonstrate reliability, motivation, and the ability to bring in your ideas.
- Preferred but not mandatory: Experience with one or multiple: ROS2, ASOA, MQTT, FastDDS.

Our Offer

- Interdisciplinary team of engineers and computer scientists.
- Regular weekly meetings with the supervisors. More or less supervision is possible if needed.
- Key for students' room and access to snacks and drinks (cost price).

Contact



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Apply Now!

