



The impact of privacy in Vehicular Edge Computing

Modern vehicles will communicate with their environment by sending out status beacons or warning messages. Those are collected by Road Side Units (RSU), will be combined with other data, like information from the backend, and then certain calculations can be performed (e.g. predicting the vehicle density). Furthermore, vehicles may transfer additional data to the RSUs, which are too resource intensive to calculate internally. This process of transmitting data for expensive calculations is called Edge Computing. Currently a lot of work focuses on the benefits and possible applications of VEC, as well as on how PETS can be implemented. But little research is done how privacy techniques impact VEC and safety.

You should first conduct a short privacy impact assessment on a selected use-case of VEC, based on this chose a certain number of PETs which should then be integrated into the use-case implementation and evaluated for their effectiveness. The number of ECTS determine the number of mechanisms investigated and the depth of the analysis and evaluation.

 Master's Thesis	30 CP
 Bachelor's Thesis	12 CP
 Project	8/16 CP

Suitable for all students who heard the PETS lecture or are interested in the topic

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If your are interested or you need additional details, feel free to contact me or drop by for a non-binding chat.

