HIWI JOB

Car-2-X Communication Networks

The Institute of Communication Technology (IKT) is looking for the motivated students of computer science, electrical engineering, or related fields to assist in programming and research duties of Car-2-X Communications, regarding the SocialCars project which is funded by German Research Foundation (DFG).

The most important element to realize the Intelligent Transport Systems (ITS), is the cooperation between the environment and traffic participants, also between traffic participants themselves. ITSs contain all kinds of communications between vehicles, also between vehicles and infrastructures. Such a system provides services related to road-safety applications, and comfort applications including: Infomobility, Mobile e-commerce, and Infotainment and interactive services.

Considering the increasing number of car manufacturers which are equipping vehicles with on-board computing, wireless communication devices and Global positioning system (GPS), one of the key factors to successfully establish the Vehicular Ad-hoc Networks (VANET) is the design and development of a suitable routing protocols to fulfil the Quality-of-Service (QoS) requirements in VANET.

Task:

- Simulate the Geo-Routing Protocols of Urban Car-2-X Communication Networks employing OMNet++

Qualifications:

- Good knowledge of C++

Contact:

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