Master thesis / Exjobb: Mobile VR / AR over 5G
Mobile Services Laboratory

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The Mobile Service Laboratory at the Department of Communication Systems' overall aim is to foster innovation, education and research in mobile services. The lab is pursuing the study, design, benchmarking, and evaluation of mobile applications and their associated services. We believe and explore new mobile technologies from a user-centred perspective.

Three ongoing projects illustrate this approach:

- The SEEN project aims at creating a novel content delivery mechanism that optimizes information display based on real-time information from connected eye-trackers, with applications including VR, AR and tactile Internet.
- In the DriverSense project we are developing Augmented Reality for Autonomous Vehicular Systems. The aim is to build and test a novel platform to design, evaluate and provide future onboard services in autonomous vehicular systems.
- The 5GQoE project explore Quality of Experience in new emerging mobile systems, applications and media, as well as deployment and scaling in 5G. We develop new methods based on bio-sensors, eye-tracking, and advanced data collection and feedback loops from users.

Based in these projects we offers thesis work in the areas of:

- Mobile AR / VR over 5G
- Connected self-driving cars in 5G
- Mobile User-Experience in 5G

Competence

We are looking for a motivated MSc student who has fulfilled the course requirements for the degree project. In addition, we require good spoken and written English. Knowledge in internetworking, mobile systems or user-centred experimental design are appreciated.

Profile

We seek particular students that are interested in exploring new mobile systems and networking solutions using machine learning, sensor fusion, streaming protocols and content delivery mechanisms. We are also interested in students that would like to explore new emerging mobile systems, applications and media from a user-perspective.

Application

Applications should include a brief personal statement, CV, and a list of grades. In the application, make sure to mention previous activities or other projects that you consider relevant for the position.

Contact

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