PRIVACY-FRIENDLY CONTEXT-AWARE SERVICES

Core area: Technical Sciences
Level of expertise: Student
Working time: Full time

INNOVATION FOR LIFE

TNO connects people and knowledge to create innovations that boost the sustainable competitiveness of industry and well-being of society. Our picture of the future is one of a safe and secure society, with welfare and prosperity for all. A society in which competitiveness goes hand in hand with sustainability. A society where there is progress. TNO furthers this progress through using applied scientific knowledge to generate solutions and innovations that have impact. TNO has chosen to focus on seven themes: Healthy Living, Industrial Innovation, Defence, Safety & Security, Energy, Mobility, Built Environment and Information Society.

INFORMATION SOCIETY

TNO researches the impact of the information society and stimulates the introduction of new services, applications and policy, based on the latest ICT, media and aerospace technology. Want more information on the theme Information Society? Look at http://www.tno.nl/information-society

YOUR IMPACT

Nowadays there are services which provide users of mobile devices with services which give the user personalized information at a moment at which this is relevant for the user. For example, Google Now warns the user when he or she has an appointment at a different location and it is almost time to leave. However, these services require the mobile device to send privacy-sensitive information (such as location and calendar events) to a third-party service.

At TNO we want to investigate if it is possible to provide personalized services in a more privacy-friendly manner. This could be done by moving part of the analysis of privacy-sensitive information to the mobile device itself, eliminating the need to share information with other parties. In order to keep this mechanism flexible, there should be a generic description of situations in which a certain service might be relevant for the user. Also, since resources are very limited on mobile devices, collecting and analyzing information should be done in a resource friendly manner.

YOUR COMPETENCES

You are currently in the last stages of your academic education in the area of computer science or other technical master with affinity for the subject. You are able to develop a well thought out software architecture and can discuss the pros and cons of your solution. You are also able to implement this architecture into a demonstrator, preferably on Android.

DISCOVER TNO

You want to work on the precursor of your career; a work placement gives you an opportunity to take a good look at your prospective future employer. TNO goes a step further. It’s not just looking that interests us; you and your knowledge are essential to our innovation. That’s why we attach a great deal of value to your personal and professional development. You will, of course, be properly supervised during your work placement and be given the scope for you to get the best out of yourself. Naturally, we provide suitable work placement compensation.

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