

## **Master thesis project proposal**

### **Assessment of privacy risks in smart cities and how to develop standards for privacy certification of services**

Future smart cities will likely improve many aspects of people's quality of life, services, and sustainability. There are many opportunities, but since optimized/personalized services require personal data, utilizing them may also involve significant ethical considerations regarding sensitive personal information. The new EU General Data Protection Regulation requires that the benefits of a service should balance any privacy breach, which obviously requires a privacy risk assessment. There exist a few privacy certification standards, e.g., TRUSTe, but it is unclear if those standards can be applied to envisioned services and applications for smart cities. Thus, in this work first, a technical assessment of the suitability of existing standards should be done. This should include a technical assessment of envisioned services for future smart cities in relation to the aforementioned privacy standards which should either lead to (1) development of privacy certification recommendations or (2) a proposal that outlines a new privacy certification approach for smart city services and applications.

The supervision of the thesis is done jointly between Anders Hedman (CSC) and Tobias Oechtering (EES). Please contact us if you are interested.