Master Thesis
„What’s next? Predicting upcoming situations based on smartphone sensor data“

Description: Modern devices and environments like smartphones and smart homes are equipped with a multitude of sensors. These sensors can be used to detect our activities and provide contextual information for the control of these environments / devices. The proactive setup of these can be achieved by the use of context prediction algorithms. One promising algorithm is the ‘alignment for context prediction’ which has been developed at our chair. The algorithm aligns history data with recent observed data in order to predict upcoming contexts. However, the matching between observed data and history data can be improved by the use of situation dependent penalty costs. The goal of the master thesis is to develop and test these situation dependent matchings and costs.

Prerequisites: elementary programming skills

application deadline: March 2020

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