

Master Thesis

Development of Adaptive Context-Aware Algorithms for Health Monitoring



Do you like Wearables?

image source: <http://www.engadget.com/>



Lehrstuhl für
Datenverarbeitung



Responsibilities

Reviewing state-of-the-art algorithms for activity recognition and localization.

Specification of requirements according to use case and targeted wearable technology.

Developing algorithms for activity recognition based on IMU data.

Developing algorithms for localization based on GPS/mobile data/WiFi.

Implementation, evaluation and testing of the performance of such algorithms in the microcontroller of the targeted wearable device.

Requirements

Experience in working on inertial data and positioning algorithms.

Experience in building human-interactive Android apps using device sensor data (eg., GPS, IMU data, pressure, temperature, etc).

Strong background in time series analysis, frequency analysis, filtering algorithms, and statistics.

Good knowledge of C/C++, R, Matlab, or similar language.

Good English skills required.

Ideally, experience in developing software in teams with Git.



More info?

Send an email with your CV to:
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