Your Personal Assistant for Lifestyle Improvement
Active and Online Learning

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Scenario – Diabetes Management

Diabetes metabolic diseases with high blood sugar levels over a prolonged period

Untreated, diabetes can cause many complications (and costs).

**Diabetes Management** aims at avoiding these complications by medication, diet, and **lifestyle change**
Lifestyle in Everyday Life (Personal Process)

Unknown Routine

Time?
Locomotion?
Location?

going to work
sleeping
sport

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**Idea**

- **Location / Time**
- **Context**
- **Information**
- **Inertial Sensors**

**Smart Device**

- **Working**
- **Sport**
- **Going to work / lunch / shopping / ...**
Goal of the Project

What we already have:

- An app (prototype) that shows the current locomotion (e.g., walking)
- Results/Knowledge/Reports of preceding team projects and more :)

What we want to develop:

- Recognize physical activities during the daily routine based on inertial sensors
- An Android app that records automatically all performed activities and that is able to learn online and also queries the user in case of uncertainty
Organizational Issues

Prerequisites

Lectures: Data Mining, Databases, Algorithms and Data Structures

Skills: **Programming (Java)** / App Development (Android)

Organizers

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