

Sparen automatische Armaturen Wasser? Ergebnisse eines Feldexperiments

Motivation

Automatic faucets are used in public and semi-public spaces to conserve water and increase comfort. Manufacturers claim large water savings for such automatic faucets over conventional ones, but solid empirical evidence is missing.

Task

The task consists of experimental design, the design and implementation of the measurement equipment, the execution of a small experiment and a simple descriptive assessment of the results.

Expected results

A report describing the experimental setting (and the reasoning for its choice), the technology to collect the data, and the statistical analysis describing the water consumption behavior.

Title English

- Do automatic faucets save water? Insights from a field experiment

Level: Bachelor or master thesis

Methodology

- Literature research, concept development, experiment, survey, statistics, machine learning, system design, etc.

Special prerequisites

- Some experience with embedded systems would be a plus

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