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Bachelor/Master Thesis

Assessing the Usability for Mobile Adaptive Systems

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In recent years, adaptive systems have become more and more popular. Although a lot of effort has been put into the evaluation of appropriateness and accuracy of these systems, the evaluation or prediction of usability or user experience has not been examined deeply. Due to the nature of adaptive systems, the system is constantly changing in response to the context or the user interaction. In addition, identifying the appropriate interval for evaluation is by no means a trivial task.

The aim of this thesis is to explore and evaluate methods for assessing the usability or user experience of mobile adaptive systems. The focus of the thesis can be for example:

- Developing and testing a model for automatic estimation of the user ratings using Machine Learning methods
- Developing and testing a method for proper evaluation of usability of a running adaptive system with user tests

Requirements

- Study subject: computer science/engineering, human computer interaction, or similar
- Programing skills (e.g., python, java (script), R, …)
- Basic knowledge of Machine Learning or Statistics
- Interest in HCI, Usability Assessment, and Adaptive Systems
- Knowledge of the modules Usability Engineering and/or Study Project Quality & Usability desirable

Languages

- English (preferred)
- Deutsch (wenn es sein muss)

Contact:

CV and **Overview over grades** to Carola Trahms, carola.trahms@tu-berlin.de

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