Pre-meeting for Seminar Automated Mobile App Testing

Dr. Shengcheng Yu

Chair of Software Engineering & AI
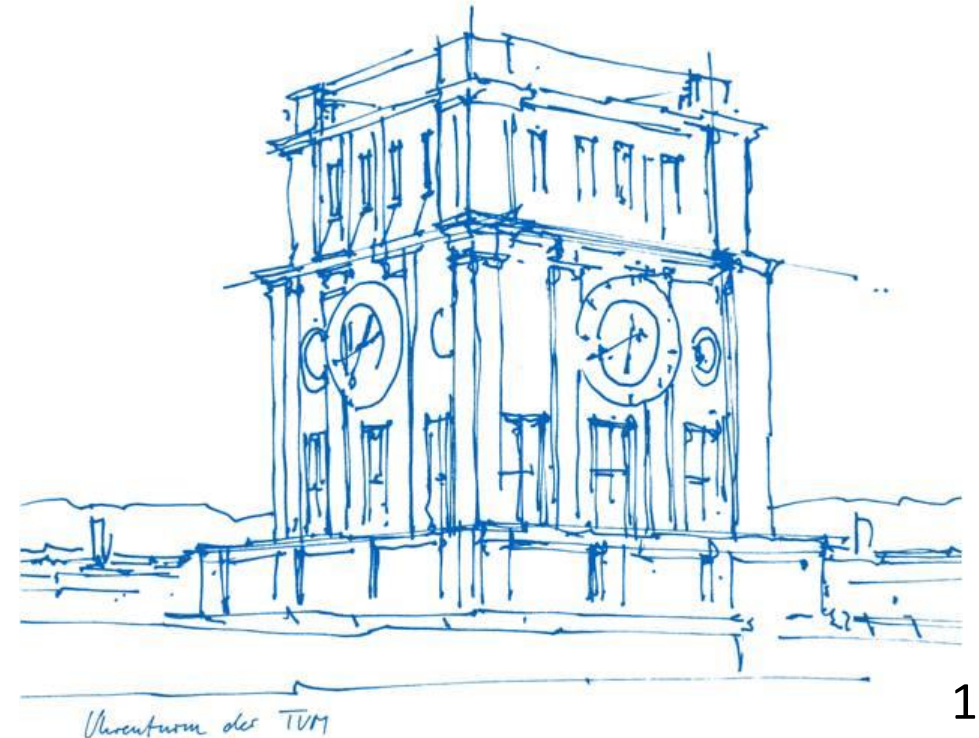
School of CIT, TUM

10 Feb 2025

seysc@outlook.com

https://www.cs.cit.tum.de/en/seai/homepage/

https://www.seysc.com

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➢ Seminar Information

- **Pre-meeting time**: 10.02.2025

- **Email deadline for preference list**: 14.02.2025
  - Basic information + Interest statement

- **Dropping out deadline**: 30.04.2025

- **Upper student limit**: 15

- **Course time**: Mon 14:00 - 15:30 (Garching)

➢ Seminar Description

- Mobile applications play a significant part in our everyday lives, providing the convenience associated with consumer use of smartphones for communications, entertainment, and financial reasons. As one of the major infrastructures of society, minor bugs in the software may cause big losses for consumers.

- This course aims to introduce **the background of software testing** and study the **advanced techniques**, including **what can we automate** and **when should we keep humans in the loop**; how much testing and what kind of testing should we do, etc.

- Automated Mobile App Testing

  - Test Generation

  - Test Migration

  - Testing Framework

- Automation-Assisted Manual Mobile App Testing

  - Test Script Maintenance

  - Test Report Analysis

- Fundamental Techniques for Mobile App Testing

  - Element Detection

  - Usability & Accessibility Testing

  - Testing Evaluation Criteria

➢ Seminar Content

- **Paper reading**: choose one specific category and search for 3-5 papers, with provided examples

  - how to select papers

  - how to organize papers

  - how to find inner connections among papers

- **Report writing**: finish a paper reading report to demonstrate the findings and thoughts

  - how to find inner connections among papers

  - how to deliver findings with an academic way

- **Presentation**: present the results of the seminar

  - how to present in an intuitive way

  - how to persuade the audience with the results

➢ Seminar Benefits

- Get familiar with software engineering research (quite different from practice!)

- Enhance the capability of report writing and presentation in an academic way

- Good chance to cutting-edge SE research topics and methodologies

- Potential chance for thesis and academic publication (in the Chair of SEAI)

Q & A

Contact

Dr. Shengcheng Yu

yscse@outlook.com

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