

SWIM 2015

8th Small Workshop on Interval Methods



Come swim to Prague in June

kam.mff.cuni.cz/conferences/swim2015

History of the House for Professed

- In 1556, the Society of Jesus came to Prague. Their college Klementinum was included in the University existing since 1348. The Jesuits built in the 17th century in the main square of Lesser Town so called House for Professed.
- After the suppression of the Jesuite Order in 1773, location of the Provincial Court.
- In 1918, the basement of the building was housing the golden treasure.
- In the years of the 2nd world war, the house was used by German army.
- Later on, its rooms passed on the Charles University.
- After the year 2000, the building underwent a costly renovation.

- 43 participants
- 37 accepted abstracts
- 35 presentations (+2 canceled)

Interval Methods for Reliable Modeling, Identification and Control of Dynamic Systems

Organizers: Andreas Rauh, Luise Senkel, and Ekaterina Auer

Registration deadline: June 12, 2015

Workshop date: July 14, 2015

<http://www.ecc15.at/workshops.html>

Part 1:

- *Fundamentals of Interval Arithmetic*
- *Kinds of Uncertainty and Possibilities for Their Treatment during Modeling and Simulation in Engineering*
- *Verified Simulation of Dynamic Systems*
- *Current Possibilities for Simulating Uncertain Non-Smooth Dynamic Systems*

Part 2:

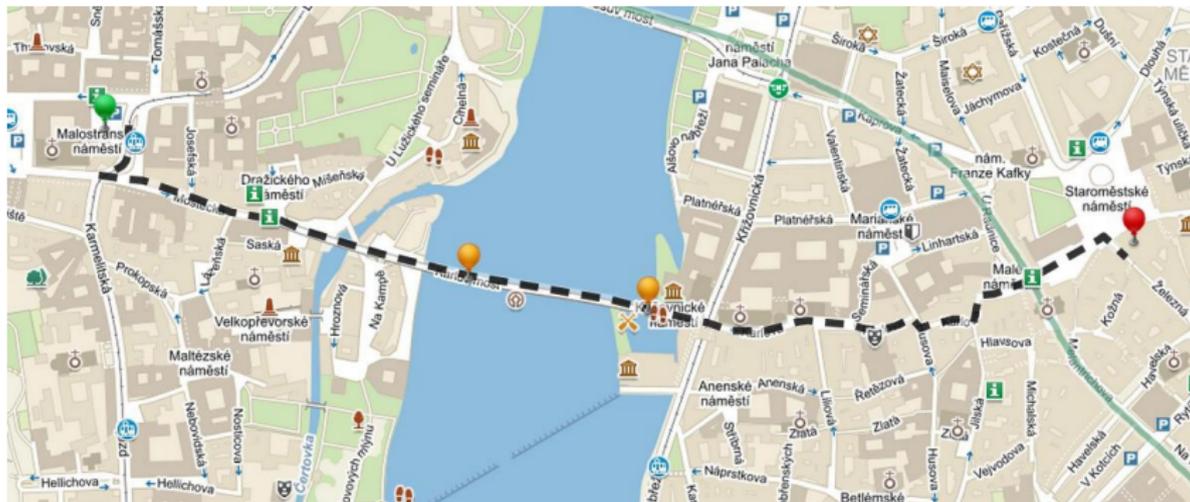
- *Control-Oriented Applications of Simulation Techniques for Non-Smooth Dynamic Systems*
- *Interval-Based Design of Sliding Mode Control and State Estimation Procedures*
- *Solid Oxide Fuel Cell (SOFC) Systems: Identification*
- *SOFC Systems: Interval-Based Sliding Mode Control*

Invited lecture by Michael Černý

- complexity theory, optimization, computational statistics and data analysis
- 3 volume book Computations

Workshop dinner

10th June 19:00



Staroměstská restaurant

Staroměstské náměstí 19

Praha 1