Formal Methods for Embedded Systems

Contents

Application of formal methods in embedded systems development:

- formal models,
- hybrids systems,
- verification,
- model checking.
- algorithmic synthesis.

The lecture will be held in English.

Literature

- D. Peled: Software Reliability Methods. Springer, 2001.
- E. Clarke, O. Grumberg, D. Peled: Model Checking. MIT Press, 2001.
- B. Berard, M. Bidoit, A. Finkel: Systems and Software Verification. Springer, 2001
- W. Ehrenberger: Software-Verifikation. Hanser, 2002.

Dates

- Lecture
  - Tuesday 3:45 PM - 5:15 PM AH 6 (weekly starting 08.04.2008)
  - Thursday 1:15 PM - 2:45 PM room 2323 Chair Informatik 11 (biweekly starting 10.04.2008)
- Übung
  - Thursday 1:15 Pm - 2:45 PM room 2323 Chair Informatik 11 (biweekly starting 17.04.2008)
- Changes are announced in the Campus system and the L2P course room.

Exercise

Übungsschein: In order to achieve the Übungsschein

- you may be absent for max. one exercise session with attestation,
- you must present a solution with your group at least one time
- and you must pass the exam.

Contact

- Further information in the L2P course room.
- Gerlind Herberich
- Dr.rer.nat. Bastian Schlich
- Dr.rer.nat. Carsten Weise