Algorithms for Model Checking (2IW55)

Domestic Announcements

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Course organisation:

- Lectures are (tentatively) organised in two blocks:
  - 02 September - 20 October 2009 (part I)
  - 10 November - 15 December 2009 (part II)
  - 5 January - 12 January 2010 (exercises/questions)

- Exam dates:
  - Friday, 29 January, 2010, 2pm - 5pm
  - Friday, 9 April, 2010, 2pm - 5pm

Up-to-date course information and handouts are made available through:

`http://www.win.tue.nl/~timw/teaching/amc/`

Bug-related health issues are communicated also through the above interface

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Course roughly organised in two parts:

- Part I (basics):
  - model checking of CTL* (and its subfamilies LTL and CTL)
  - model checking of the μ-calculus
  - computation of equivalences
- Part II (advanced topics):
  - μ-calculus model checking through Boolean equation systems
  - Boolean equation system solving through Parity Games
  - Symbolic μ-calculus model checking
  - Real-time model checking

Additional reading:

- Handouts (provided to you on occassion)
- Book: Model Checking. Edmund M. Clarke, Jr., Orna Grumberg, and Doron A. Peled. MIT Press, ISBN 0-262-03270-8
- Book: Principles of Model Checking. Christel Baier and Joost-Pieter Katoen. MIT Press, ISBN 978-0-262-02649-9