

FMICS 2009 - 14th Intl. ERCIM Workshop on Formal Methods for Industrial Critical Systems

Eindhoven, The Netherlands, 2-3 November 2009

The aim of the FMICS workshop series is to provide a forum for researchers who are interested in the development and application of formal methods in industry. In particular, these workshops are intended to bring together scientists and practitioners who are active in the area of formal methods and interested in exchanging their experiences in the industrial usage of these methods. These workshops also strive to promote research and development for the improvement of formal methods and tools for industrial applications.

Invited Speakers

This year, FMICS will feature four outstanding invited speakers - two outstanding scientists and two prominent industrialists working in top companies with an emphasis on formal methods for critical systems :

- Dino Distefano, Queen Mary, Univ. London, UK
- Diego Latella, ISTI-CNR, Italy
- Thierry Lecomte, ClearSy, France
- Ken McMillan, Cadence, USA

Accepted Papers

- J. B. Almeida, M. Barbosa, J. Sousa Pinto and B. Vieira: 'Correctness with respect to reference implementations'
- D. Delmas, E. Goubault, S. Putot, J. Souyris, K. Tekkal and F. Védrine: 'Towards an industrial use of FLUCTUAT on safety-critical avionics software'
- J de Dios and R. Pena: 'A Certified Implementation on top of the Java Virtual Machine'
- S. Evangelista and L. M. Kristensen: 'Dynamic State Space Partitioning for External and Distributed Model Checking'
- A. Goodloe and C. Munoz: 'Compositional Verification of a Communication Protocol for a Remotely Operated Vehicle'
- J. Mariño, Á. Herranz, M. Carro and J. J. Moreno-Navarro: 'Formal modeling of concurrent systems with shared resources'
- P. Parizek and T. Kalibera: 'Platform-Specific Restrictions on Concurrency in Model Checking of Java Programs'
- M. Raffelsieper, M. Reza Mousavi, J.-W. Roorda, C. Strolenberg and H. Zantema: 'Formal Analysis of Non-Determinism in Verilog Cell Library Simulation Models'
- E. Schierboom, A. Tamalet, H. Tews, M. van Eekelen and S. Smetsers: 'Preemption Abstraction: a Lightweight Approach to Modelling Concurrency'
- K. J. Turner and K. Leai Larry Tan: 'A Rigorous Methodology for Composing Services'.

Accepted Posters

- A. Ferrari, A. Fantechi, S. Bacherini and N. Zingoni: 'Formal Development for Railway Signaling Using Commercial Tools'

- N. Izerrouken, M. Pantel, X. Thirioux and O. Ssi yan kai: 'Integrated Formal Approach for Qualified Critical Embedded Code Generator'
- L. Ladenberger, J. Bendisposto and M. Leuschel: 'Visualizing Event-B models with BMotionStudio'
- A. Mathijssen, Y. S. Usenko and D. Bosnacki: 'Behavioural Analysis of an I2C Linux Driver'
- W. Mostowski, E. Poll, J. Schmaltz, J. Tretmans and R. Wichers Schreur: 'Model-Based Testing of Electronic Passports'
- L. Panizo, M. M. Gallardo, P. Merino and A. Linares: 'Developing a decision support tool for Dam management with SPIN'

FMICS 2009 is part of the first Formal Methods Week (FMweek), which will bring together a choice of events in the area. For the latest information on FMweek, see <http://www.win.tue.nl/fmweek>.

Organisation

- PC co-Chairs: María Alpuente (T. U. Valencia, Spain) and Byron Cook (Microsoft, UK)
- Workshop Chair: Christophe Joubert (T. U. Valencia, Spain).

More information:

<http://users.dsic.upv.es/workshops/fmics2009/>