

ICTAC 2010 - PRELIMINARY PROGRAM

SEPTEMBER 1ST

Welcome Address

FME Invited Talk:

Speaker: Ian Hayes. *Invariants and Well-Foundedness in Program Algebra.*

Chair: Ana Cavalcanti

Technical Session : Grammars

Chair: Zhiming Liu

►Lei Chen and Haiming Chen. *Subtyping Algorithm of Regular Tree Grammars with Disjoint Production Rules.*

►Jacques Chabin, Mirian Halfeld Ferrari, Martin Musicante and Pierre Rety. *Minimal Tree Language Extensions: A Keystone of XML Type Compatibility and Evolution.*

►Bas Basten. *Tracking Down the Origins of Ambiguity in Context-Free Grammars.*

Technical Session: Semantics

Chair: Marcel Oliveira

►Andrew Butterfield and Pawel Gancarski. *Prioritised Slotted-Circus.*

►Qin Li, Huibiao Zhu and Jifeng He. *A Denotational Semantical Model for Orc Language.*

►Zhenbang Chen and Zhiming Liu. *An Extended cCSP with Stable Failures Semantics.*

►Bill Stoddart, Frank Zeyda and Steve Dunne. *Preference and Non-deterministic Choice.*

Technical Session: Modelling

Chair: Tom Maibaum

►Jewgenij Botaschanjan and Benjamin Hummel. *Material Flow Abstraction of Manufacturing Systems.*

►Umberto Costa, Ivan de Medeiros Jr and Marcel Oliveira. *Specification and Verification of a MPI Implementation for a MP-SoC.*

Cocktail

Information subject to changes.
Last update: Tuesday, August 17, 2010.

09:00

10:00-11:00

11:00-12:30

14:15-16:15

16:45-17:45

18:00

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SEPTEMBER 2ND

Invited Talk:

Speaker: Wolfram Schulte. *Testing and Verification of Concurrent Shared-memory Systems.*

Chair: Marie-Claude Gaudel

Technical Session : Special track (1)

Chair: Marie-Claude Gaudel/Jim Woodcock

►Bilal Kanso, Marc Aiguier, Frédéric Boulanger and Assia Touil. *Testing of Abstract Components.*

►Yunho Kim, Moonzoo Kim and Nam Dang. *Scalable Distributed Concolic Testing: a Case Study on a Flash Storage Platform.*

►Reng Zeng and Xudong He. *Analyzing a Formal Specification of Mondex using Model Checking.*

Invited Talk:

Speaker: Paulo Borba. *A Theory of Software Product Line Refinement.*

Chair: Jim Woodcock

Technical Session: Special track (2)

Chair: Marie-Claude Gaudel/Jim Woodcock

►Andrius Velykis and Leo Freitas. *Formal Modelling of Separation Kernel Components.*

►Gregory Malecha and Greg Morrisett. *Mechanized Verification with Sharing.*

►Ashish Darbari, Bernd Fischer and Joao Marques-Silva. *Industrial-Strength Certified SAT Solving through Verified SAT Proof Checking.*

►Marcelo Fabián Frias, Carlos Gustavo Lopez Pombo and Mariano Moscato. *Dynamite 2.0: New Features Based on UnSAT-Core Extraction to Improve Verification of Software Requirements.*

Conference Dinner

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10:00-11:00

11:00-12:30

14:15-15:15

15:45-17:15

20:00

ICTAC 2010 - PRELIMINARY PROGRAM

SEPTEMBER 3RD

Invited Talk:

Speaker: Stephan Merz. *The TLA+ Proof System: Building a Heterogeneous Verification Platform.*

Chair: David Déharbe

Technical Session : Logics (1)

Chair: Marcelo Frias

►Carlos Gustavo Lopez Pombo and Marcelo Fabián Frias. *Complete Calculi for Structured Specifications in Fork Algebra.*

►Pablo Castro, Nazareno Aguirre, Carlos Gustavo Lopez Pombo and Tom Maibaum. *Towards Managing Dynamic Reconfiguration of Software Systems in a Categorical Setting.*

The Future of ICTAC

Technical Session: Algorithms and Types

Chair: Martin Musicante

►Srinivas Nedunuri, Douglas Smith and William R Cook. *A class of greedy algorithms and its relation to greedoids.*

►Paul Tarau. *On Arithmetic Computations with Hereditarily Finite Sets, Functions and Types.*

►Rui Shi, Dengping Zhu and Hongwei Xi. *A Modality for Safe Resource Sharing and Code Reentrancy.*

Technical Session : Logics (2)

Chair: Marcelo Frias

►Pablo Castro and Tom Maibaum. *Characterizing Locality (Encapsulation) with Bisimulation.*

►Eduardo Bonelli and Francisco Bavera. *Justification Logic and History Based Computation.*

10:00-11:00

11:00-12:00

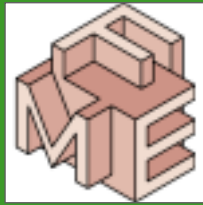
12:00-13:00

14:15-15:45

16:15-17:15

20:00

SPONSORS



CO-PROMOTION



Preliminary Programme

Informations subject to changes.

Last update: May 19th, 2010.