SVARM 2010

Synthesis, Verification, and Analysis of Rich Models
- COST Action IC0901 WG+MC Meeting -
PSY 2010: Practical Synthesis for Concurrent Systems
Joint EMS+QMS Panel

Tuesday, July 20: Synthesis and Infrastructure

08:50	**Paul Jackson**	**Welcome and Opening**
Session Chair: Roderick Bloem		
09:00	Ras Bodik	**Next Steps in Partial-Program Synthesis**
09:30	Kim Larsen	**Controller Synthesis from Timed Game Automata – from Theory to Practice**
10:00	**Coffee Break**	
Session Chair: Cesar Sanchez		
10:30	Alexander Rabinovich	**Extensions of the Church synthesis Problem**
11:00	Bernd Finkbeiner	**Coordination Logic**
11:30	Georg Hofferek and Roderick Bloem	**Controller Synthesis Using Uninterpreted Functions**
12:00	Tobias Nipkow	**Automatic proof and disproof in Isabelle**
12:30	**LUNCH**	
Session Chair: Paul Jackson		
14:00	Natarajan Shankar	**Inference Architectures for Satisfiability Modulo Theories**
15:00	**Coffee Break**	
15:30		**Panel joint with Evaluation Methods for Solvers and Quality Metrics for Solutions**
16:15 -		Discussion after the panel
Session Chair: Enric Rodríguez Carbonell		
17:00	Armin Biere and Florian Lonsing	**Extending the BTOR Language**
17:30	Management Committee	**Management Committee Meeting of Action IC0901**
20:00		**Organized Dinner in David Bann vegetarian restaurant**

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Wednesday, July 21
Verification and Automated Reasoning

Session Chair: Tobias Nipkow		
09:00	Bernhard Beckert	Formal Verification of System Software
10:00	**Short Coffee Break**	
Session Chair: Tayssir Touili		
10:20	Peter Schneider-Kamp	Towards Complexity and Termination Analysis of Transition Systems
10:40	Peter Habermehl, Lukas Holik, Adam Rogalewicz, Jiri Simacek and Tomas Vojnar	A Proposal of a New Automata-based Representation of Heaps
11:00	Marius Bozga, Radu Iosif, Filip Konecny and Tomas Vojnar	FLATA: Towards a Toolset for manipulation and analysis of counter automata
11:20	**Mini Break of 10 minutes**	
Session Chair: Predrag Janičić		
11:30	Stefan Ratschan	Verification of Mixed Discrete-Continuous Systems
11:50	Alejandro Sanchez and Cesar Sanchez	Towards Temporal Verification of Concurrent Data-structures: In Need for Sophisticated Decision Procedures
12:10	Hossein Hojjat, Viktor Kuncak, Ruzica Piskac and Philippe Suter	Vepar: A Framework for Automated Reasoning
12:30	**LUNCH**	
Session Chair: Maria Paola Bonacina		
14:00	Paul Jackson and Grant Passmore	Applications of a procedure for solving non-linear arithmetic problems
14:20	Cristina Borralleras, Salvador Lucas, Albert Oliveras, Enric Rodríguez Carbonell and Albert Rubio	Solving Non-linear Polynomial Arithmetic via SAT Modulo Linear Arithmetic
14:40	Timothy Nelson, Dougherty Daniel, Kathi Fisler and Shriram Krishnamurthi	On the Finite Model Property in Order-Sorted Logic
15:00	**Short Coffee Break**	
Session Chair: Viktor Kuncak		
15:20	Mariangiola Dezani-Ciancaglini, Silvia Ghilezan, Svetlana Jaksic and Jovanka Pantovic	Types for dynamic web data with RBAC
15:40	Predrag Janicic and Filip Maric	Uniform reduction to SMT
16:00	Maria Paola Bonacina and Moa Johansson	Towards an Interpolating First-Order Prover
16:20	**Closing Discussions**	