

20th IFIP World Computer Congress

Milano, Italy 7-10 September 2008

TC1 Conference on

Theoretical Computer Science TCS



Programme

Monday, September 8 th 2008	
09:00-09:45	Keynote Speeches Systems based on interactions of inhibitions and facilitations <i>Grzegorz Rozenberg</i> Solving monotone polynomial equations <i>Javier Esparza</i>
10:30-11:00	Coffee Break
11:00-13:00	Track B – Session 1 Finite Equational Bases for Fragments of CCS with Restriction and Relabelling <i>Luca Aceto, Anna Ingolfsdottir, Bas Luttik and Paul Van Tilburg</i> Universal Coinductive Characterisations of Process Semantics <i>David Frutos Escrig and Carlos Gregorio-Rodriguez</i> On Boundedness in Depth in the Pi-Calculus <i>Roland Meyer</i> Mu-calculus Pushdown Module Checking with Imperfect State Information <i>Benjamin Aminof, Axel Legay, Aniello Murano and Olivier Serre</i> Lifting Non-Finite Axiomatizability Results to Extensions of Process Algebras <i>Luca Aceto, Anna Ingolfsdottir, Wan Fokkink and Mohammadreza Mousavi</i>
13:30-14:30	Lunch
14:30-15:30	Track A – Session 1 On the expressive power of univariate equations over sets of natural numbers <i>Alexander Okhotin and Panos Rondogiannis</i> Literal shuffle of compressed words <i>Alberto Bertoni, Christian Choffrut and Roberto Radicioni</i> On tractability of Cops and Robbers game <i>Fedor Fomin, Petr Golovach and Jan Kratochvil</i>
16:00-16:30	Coffee Break



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16:30-18:00	<p>Track B – Session 2</p> <p>Canonical Sequent Proofs via Multi-Focusing <i>Kaustuv Chaudhuri, Dale Miller and Alexis Saurin</i></p> <p>From Formal Proofs to Mathematical Proofs: building in decision procedures in a secure way <i>Jean-Pierre Jouannaud, Frederic Blanqui and Pierre-yves Strub</i></p> <p>On Traits and Types in a Java-like Setting <i>Viviana Bono, Ferruccio Damiani and Elena Giachino</i></p>
Tuesday, September 9th 2008	
09:00-10:30	<p>Keynote Speeches</p> <p>Differential linear logic and processes <i>Thomas Ehrhard</i></p> <p>Algorithmic Game Theory: Some Greatest Hits and Future Directions <i>Tim Roughgarden</i></p>
10:30-11:00	Coffee Break
11:00-13:30	<p>Track A – Session 2</p> <p>Reconstructing words from a fixed palindromic length sequence <i>Srecko Brlek, Andrea Frosini, Simone Rinaldi, Alexandre Blondin Massé, Sébastien Labbé</i></p> <p>On the Longest Common Factor Problem <i>Muriana Pesaresi, Filippo Mignosi, Maxime Crochemore and Alessandra Gabriele</i></p> <p>Computability of tilings <i>Gregory Lafitte and Michael Weiss</i></p> <p>Collisions and their Catenations: Ultimately Periodic Tilings of the Plane <i>Nicolas Ollinger and Gaétan Richard</i></p> <p>Stable dynamics of Sand Automata <i>Alberto Dennunzio, Pierre Guillon and Benoit Masson</i></p>
13:30-14:30	Lunch
14:30-16:00	<p>Track B – Session 3</p> <p>Adequacy of Compositional Translations for Observational Semantics <i>Manfred Schmidt-Schauss, Joachim Niehren, Jan Schwinghammer and David Sabel</i></p> <p>Deconstructing behavioural theories of mobility <i>Julian Rathke and Pawel Sobocinski</i></p> <p>Static and dynamic typing for the termination of mobile processes <i>Romain Demangeon, Daniel Hirschhoff and Davide Sangiorgi</i></p>

16:00-16:30	Coffee Break
16:30-18:30	<p>Keynote</p> <p>Synchronizing road coloring <i>A. Trakhtman</i></p> <p>Track A – Session 3</p> <p>Leader Election in Anonymous Rings: Franklin Goes Probabilistic <i>Rena Bakhshi, Wan Fokkink, Jun Pang and Jaco van de Pol</i></p> <p>Partitioning Random Graphs with General Degree Distributions <i>Amin Coja-Oghlan and Andre Lanka</i></p> <p>The mv-decomposition : definition and application to the distance-2 broadcast problem in radio networks <i>Olivier Cogis, Benoit Darties, Sylvain Durand, Jean-Claude Konig and Genevieve Simonet</i></p>
Wednesday, September 10th 2008	
09:00-10:30	<p>Keynote Speeches</p> <p>Ambiguity and Complementation in Recognizable Two-Dimensional Languages <i>Antonio Restivo, Dora Giammarresi</i></p> <p>From processes to ODE by chemistry <i>Luca Cardelli</i></p>
10:30-11:00	Coffee Break
11:00-13:30	<p>Track B – Session 4</p> <p>Hamiltonicity of automatic graphs <i>Dietrich Kuske and Markus Lohrey</i></p> <p>The surprising Robustness of (Closed) Timed Automata against Clock-Drift <i>Mani Swaminathan, Martin Fraenzle and Joost-Pieter Katoen</i></p> <p>Marking the Chops: An Unambiguous Temporal Logic <i>Paritosh Pandya, Kamal Lodaya and Simoni Shah</i></p> <p>A Unified View of Tree Automata and Term Schematisations <i>Nicolas Peltier</i></p> <p>Regular n-ary Queries in Trees and Variable Independence <i>Emmanuel Filiot and Sophie Tison</i></p>
13:30-14:30	Lunch
14:30-16:00	<p>Track A – Session 4</p> <p>Cache-sensitive Memory Layout for Binary Trees <i>Riku Saikkonen and Eljas Soisalon-Soininen</i></p> <p>A Classification of Degenerate Loop Agreement <i>Xingwu Liu, Zhiwei Xu, Juhua Pu and Jianzhong Pan</i></p> <p>Inverse Problems Have Inverse Complexity <i>Tobias Berg and Harald Hempel</i></p>