

ICTCS 2010

12th Italian Conference on Theoretical Computer Science

Camerino, Italy, September 15-17, 2010



LOCATION: Aula Arangio Ruiz and Aula Cantelmo Pasqui, **Palazzo Ducale, Piazza Cavour**

WEDNESDAY 15TH SEPTEMBER

Aula Arangio Ruiz

- 10.00 - 10.30 Registration
10.30 - 10.45 Opening the Workshop on Performability-Aware Computing: Logics, Models, and Languages (PaCo)
10.45 - 11.45 *L'Aquila Research Unit*
11.45 - 12.45 *Torino Research Unit*
12.45 - 14.15 **Lunch Break**
14.15 - 15.15 *Camerino Research Unit*
15.15 - 16.15 *Firenze Research Unit*
16.15 - 16.45 **Coffee Break**
16.45 - 18.00 *Marco Bernardo*
Markovian Behavioral Equivalences:
Their Spectrum, Some Known Results, and One Open Problem
18.00 Registration
18.30 **Welcome Cocktail "sotto corte"**

THURSDAY 16TH SEPTEMBER

Aula Arangio Ruiz

- 9.00 - 10.00 *Stefano Crespi Reghizzi*
A century of parentheses languages
10.00 - 10.40 *Pietro Sala*
Decidability of Interval Temporal Logics
10.40 - 11.00 **Coffee Break**

	Aula Arangio Ruiz Track A - Formal Languages	Aula Cantelmo Pasqui Track B - Concurrency
11.00 - 11.25	Anton Cerny Fuzzy words	<i>Furio Honsell, Marina Lenisa and Rekha Redamalla</i> Equivalences and Congruences on Infinite Games
11.25 - 11.50	<i>Flavio D'Alessandro and Arturo Carpi</i> Locally strongly transitive automata and the Hybrid Cerny-Road coloring problem	Alessandro Aldini Behavioral Equivalences and Approximations
11.50 - 12.15	<i>Luca D'Auria and Rosalba Zizza</i> A note on the McCloskey's algorithm for deciding whether a regular language is a code	Massimo Callisto De Donato and Maria Rita Di Berardini A Framework for the Evaluation of Worst-Case System Efficiency
12.15 - 12.40	<i>Laura Giambruno and Sabrina Mantaci</i> State complexities of transducers for bidirectional decoding of prefix codes	Federico Buti, Diletta Cacciagrano and Luca Tesei BioShape: a uniform multi-scale simulator for biological systems

12.40 - 14.30 **Lunch**

	Aula Arangio Ruiz Track A - Computational Complexity	Aula Cantelmo Pasqui Track B - Formal Methods
14.30 - 14.55	<i>Olaf Beyersdorff, Nicola Galesi and Massimo Lauria</i> A Lower Bound for the Pigeonhole Principle in Tree-like Resolution by Asymmetric Prover-Delayer Games	<i>Flavio Corradini, Andrea Polini, Alberto Polzonetti and Barbara Re</i> A User-Friendly Approach for Business Process Formal Verification
14.55 - 15.20	<i>Olaf Beyersdorff, Nicola Galesi and Massimo Lauria</i> The Strength of Parameterized Tree-like Resolution	Michele Tartara , <i>Stefano Crespi Reghizzi and Simone Campanoni</i> Extending hammocks for parallelism detection
15.20 - 15.45	Alessandra Cherubini, Claudia Nuccio and Emanuele Rodaro On the alphabetical satisfiability of trace equations	Marco Gaboardi and Alexis Saurin A foundational calculus for computing with streams

15.45 - 16.05 **Coffee Break**

	Aula Arangio Ruiz Track A - Cryptography	Aula Cantelmo Pasqui Track B - Logics
16.05 - 16.30	Angelo De Caro , Vincenzo Iovino and Giuseppe Persiano Fully Secure Anonymous HIBE with Short Ciphertexts	Marcello Maria Bersani and Achille Frigeri Bounded Reachability for Temporal Logic over Constraint Systems
16.30 - 16.55	Anita Eusebi and Stefano Mancini On a quantum two-way deterministic and d-dimensional cryptographic scheme	Domenico Cantone, Andrea Formisano, Marianna Nicolosi Asmundo and Eugenio Omodeo A graphical representation of relational formulae with complementation

17.30 - 19.30 Meeting of IC_EATCS, **Aula Arangio Ruiz**

Social Dinner at Villa Fornari

FRIDAY 17TH SEPTEMBER

Aula Arangio Ruiz

- 9.00 - 10.00 *Rossella Petreschi*
Is there something more to say about L(2,1)-coloring of graphs?
- 10.00 - 10.40 *Blerina Sinimeri*
Structures of Diversity
- 10.40 - 11.00 **Coffee Break**

	Aula Arangio Ruiz Track A - Algorithms on Graphs	Aula Cantelmo Pasqui Track B - Constrained Systems
11.00 - 11.25	<i>Gianlorenzo D'Angelo, Daniele Frigioni</i> and Vinicio Maurizio An experimental study of distributed algorithms for shortest paths on real networks	Stefano Bistarelli , Paola Campli and Francesco Santini Finding Coalitions of Arguments with CSPs
11.25 - 11.50	Andrea Frosini , Simone Rinaldi, Khalil Tawbeh and Laurent Vuillon Reconstruction of \mathbb{Z}^2 -convex polyominoes	Clara Bertolissi and Maribel Fernandez Rewrite Specifications of Access Control Policies in Distributed Environments

11.50 - 12.15	<i>Domenico Cantone and Simone Faro</i> Presented by Emanuele Giaquinta Fast Shortest Paths Algorithms in the Presence of Few Negative Arcs	M. Carmen Ruiz , <i>Diego Perez Leandrez, J. Jose Pardo and Diego Cazorla</i> BAL Tool: what else?
12.15 - 12.40	Blerina Sinimeri and <i>Tiziana Calamoneri</i> L(2,1)-Labeling of Oriented Planar Graphs	<i>Daniela Briola, Maurizio Martelli and Viviana Mascardi</i> Specification, simulation and verification of negotiation protocols in a unified agent-based framework

12.40 - 14.30 **Lunch**

	Aula Arangio Ruiz Track A - Algorithms	Aula Cantelmo Pasqui Track B - Formal Languages
14.30 - 14.55	<i>Carlo Cafaro, Sonia L'Innocente, Cosmo Lupo and Stefano Mancini</i> On Performance Quantifiers for Quantum Error Correcting Codes	<i>Alberto Carraro and Antonino Salibra</i> Easy Lambda-terms are not Always Simple
14.55 - 15.20	Sumit Ganguly and <i>Purushottam Kar</i> Estimating first frequency moment of data stream in nearly optimal space and time	<i>Fabio Gadducci, Alberto Lluch Lafuente and Andrea Vandin</i> Counterpart Semantics for a Second-Order mu-Calculus
15.20 - 15.45	Salvatore Spinella , <i>Eva Sciacca and Paola Giannini</i> Protein Sequence-Function Analysis Using Annotated Context-Free Grammars	<i>Giovanna D'Agostino, Eugenio Omodeo, Alberto Policriti and Alexandru Tomescu</i> Mapping Hypersets into numbers
15.45 - 16.05	<i>Sara Brunetti, Elena Lodi and Walter Quattrociocchi</i> Stubborn Entities in Colored Toroidal Meshes	<i>Dario Colazzo and Carlo Sartiani</i> Precision and Complexity of X

16.05 **Closing**