

REPORT FROM THE ITALIAN CHAPTER

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ICTCS 2013

The 14th Italian Conference on Theoretical Computer Science (ICTCS 2013) was held at the University of Palermo, Italy, from the 9th to the 11th of September 2013.

ICTCS is the conference of the Italian Chapter of the European Association for Theoretical Computer Science and, besides being a forum of exchange of ideas, it provides the ideal environment where junior researchers and Ph.D. students meet senior researchers. ICTCS 2013 is also open to researchers from outside Italy, who are welcome to submit papers and attend the Conference.

During the General Assembly, Stefano Bistarelli, the Organizing Committee Chair of ICTCS 2014 gave an entertaining report on the location Perugia and the venue at the University of Perugia. The whole team in Perugia is looking forward to being a good host for ICTCS 2014.

IC-EATCS awards

As usual, during the conference, the President of the Italian Chapter gave up some awards.

Indeed, every year the Italian Chapter assigns an award for the two best Italian PhD theses in Theoretical Computer Science. For 2013, the Selection Committee, composed by professors Andrea Clementi (Univ. of Rome tor Vergata), Mimmo Parente (Univ. of Salerno) and Elena Zucca (Univ. of Genova) selected as recipients of the award

Jacopo Mauro (whose thesis is entitled *Constraints Meet Concurrency*)

and

Alessandra Scafuro (whose thesis is entitled *Secure Computation Under Network and Physical Attacks*).

Furthermore, for the first time, this year an award for the best young Italian researcher in Theoretical Computer Science has been established. The Selection Committee, composed by professors Mariangiola Dezani (Univ. of Turin), Luisa

Gargano (Univ. of Salerno) and Geppino Pucci (Univ. of Padua) selected as recipient of this new award

Luca Moscardelli (Univ. of Chieti-Pescara).

These three young researchers gave a talk to the ICTCS attendees describing their research area and summarizing their own results.

Appendix

Talks have been given in the following order:

- G.F. Italiano (Invited Talk): Strong bridges and strong articulation points of directed graphs.
- V. Lonati, D. Mandrioli, F. Panella, M. Pradella: Free grammars and languages.
- M. B. Abu Ayyash, E. Rodaro: A language theoretical approach to some problems on inverse semigroups.
- N. Beerenwinkel, S. Beretta, P. Bonizzoni, R. Dondi, Y. Pirola: Covering pairs in directed acyclic graphs.
- S. Bistarelli, S. Foley, F. Santini, F. Vicino: An introduction to consistently merging trust-networks with bipolar preferences.
- S. Brunetti, G. Cordasco, L. Gargano, E. Lodi, W. Quattrociocchi: Minimum weight multicolor dynamos.
- F. Mignosi, A. Langiu, M. Crochemore, C. Iliopoulos: On the multiple common substring problem.
- M. H. Ter Beek, F. Gadducci, F. Santini: Validating reconfigurations of Reo circuits.
- A. Frosini, S. Rinaldi, D. Battaglino, L. Vuillon, S. Socci, M. Bouvel: Pattern-avoiding polyominoes.
- E. Rodaro, R. Reis: Reset regular decomposition complexity of regular ideal languages.
- A. Bernini, S. Bilotta, R. Pinzani, V. Vajnovszki: Two Gray codes for q-ary k-generalized Fibonacci strings.
- V. V. Gusev, M. Maslennikova, E. V. Pribavkina, E. Rodaro: Language theoretic approach to synchronizing automata.
- E. Omodeo, A. Policriti, A. I. Tomescu: Bridging syllogistics with combinatorics.
- L. Aceto, D. Della Monica, A. Ingólfssdóttir, A. Montanari, G. Sciavicco: A complete classification of the expressiveness of interval logics of Allen's relations over dense linear orders.
- U. de'Liguoro: The approximation theorem for the Lambda-mu calculus.
- D. Ancona, P. Giannini, E. Zucca: Incremental rebinding.

- L. Moscardelli (Young Researcher in Theoretical Computer Science Award 2013): Convergence issues in congestion games.
- C. Barton, C. S. Iliopoulos, S. Pissis: Circular string matching revisited.
- A. Langiu, A. Alatabbi, M. S. Rahman, C. S. Iliopoulos: Computing the longest common abelian factor.
- M. M. Bersani, M. Rossi, P. San Pietro: Deciding in practice the satisfiability of continuous-time metric temporal logic.
- R. Gentilini: A SAT encoding for solving games with energy objectives.
- I. Bonacina, N. Galesi: Space complexity in algebraic proof systems.
- M. Bartoletti, P. Di Giamberardino, R. Zunino: Towards a linear contract logic.
- L. Bernardinello, C. Ferigato: On the composition of regional structures and their logics.
- M. Lenisa, F. Honsell, R. Redamalla: Polarized multigames.
- J. Mauro (Best Ph.D. Thesis in Theoretical Computer Science Award 2013): Constraints meet concurrency.
- A. Scafuro (Best Ph.D. Thesis in Theoretical Computer Science Award 2013): Secure computation under network and physical attacks.
- P. Degano (Invited Talk): A formal model of context-oriented programming.
- P. Cenciarelli, D. Gorla, I. Salvo: On two different forms of inefficiency in network design.
- L. Bernardinello, C. Ferigato, S. Haar, L. Pomello: Dynamically closed sets in occurrence nets.
- M. H. Ter Beek, A. Lluch Lafuente, M. Petrocchi: Combining declarative and procedural views in the feature-oriented specification and analysis of product families.
- E. Rodaro, R. Reis: The language of initially connected deterministic finite automata.
- M. Anselmo, D. Giammarresi, M. Madonia: Strong prefix codes of pictures.
- S. Crespi Reghizzi, P. San Pietro: Commutative consensual counter languages.
- J. Clément, L. Giamb Bruno: On the number of prefix and border tables.

THE ITALIAN CHAPTER

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