

# ICTCS 2018

## 19th Italian Conference on Theoretical Computer Science

### Program day 1

Tuesday 18 September 2018

Aula Magna Collegio Raffaello

Piazza della Repubblica 13, second floor

- 8:50 – 9:20 **Registration**
- 9:20 – 9:30 **Opening** [greetings: Vilberto Stocchi – Rector U. Urbino Carlo Bo]
- 9:30 – 10:30 **Invited talk** (IC-EATCS Young Researcher Award) [chair: Angelo Montanari]
  - \* Nicola Prezza (U. Pisa): *String Attractors: A Unifying Theory of Repetitiveness.*
- 10:30 – 11:00 **Coffee break** (courtyard of Collegio Raffaello)
- 11:00 – 12:50 **Session 1: Games and Distributed Algorithms** [chair: Antonio Caruso]
  - \* 11:00 – 11:30 Gianpiero Monaco, Luca Moscardelli and Yllka Velaj: *Hedonic Games with Social Context.*
  - \* 11:30 – 12:00 Felix C. Rodrigues, Eduardo Xavier and Guido Schaefer: *On the Effectiveness of Connection Tolls in Fair Cost Facility Location Games.*
  - \* 12:00 – 12:30 Vittorio Bilò and Cosimo Vinci: *The Price of Anarchy of Affine Congestion Games with Similar Strategies.*
  - \* 12:30 – 12:50 Emilio Cruciani, Emanuele Natale, André Nusser and Giacomo Scornavacca: *On the Emergent Behavior of the 2-Choices Dynamics.*
- 12:50 – 14:20 **Lunch** (Caffè degli Archi c/o Circolo Cittadino, Piazza della Repubblica 12)
- 14:20 – 15:50 **Session 2: Graphs** [chair: Alberto Policriti]
  - \* 14:20 – 14:50 Gennaro Cordasco, Luisa Gargano and Adele Rescigno: *Threshold-Bounded Dominating Set with Incentives.*
  - \* 14:50 – 15:10 Serafino Cicerone, Mattia D’Emidio and Daniele Frigioni: *On Mining Distances in Large-Scale Dynamic Graphs.*
  - \* 15:10 – 15:30 Shima Moghtasedi: *Finding Time Period Based Similar Trajectories on Graphs.*
  - \* 15:30 – 15:50 Ivano Salvo, Daniele Gorla and Pietro Cenciarelli: *Graph Theoretic Detection of Potential Inefficiency in Network Models.*
- 15:50 – 16:20 **Coffee break** (courtyard of Collegio Raffaello)
- 16:20 – 18:00 **Panel** [moderator: Angelo Montanari – President of IC-EATCS, U. Udine]
  - \* Past and future of the VQR, Italy’s national research assessment.  
Panelists: Paola Inverardi (Rector U. L’Aquila), Vilberto Stocchi (Rector U. Urbino Carlo Bo), Ciriaco Andrea D’Angelo (U. Roma Tor Vergata), Andrea Marin (U. Venezia Ca’ Foscari).

# ICTCS 2018

## 19th Italian Conference on Theoretical Computer Science

### Program day 2

Wednesday 19 September 2018

Aula Magna Collegio Raffaello

Piazza della Repubblica 13, second floor

- 9:00 – 10:00 **Invited talk** [chair: Marco Bernardo]
  - \* Davide Sangiorgi (U. Bologna): *Coinductive Techniques as Unique Solutions of Equations.*
- 10:00 – 10:30 **Coffee break** (courtyard of Collegio Raffaello)
- 10:30 – 12:30 **Session 3: AI, Complexity and Decidability** [chair: Michele Loreti]
  - \* 10:30 – 11:00 Ugo Dal Lago and Gabriele Vanoni: *On Randomised Strategies in the  $\lambda$ -calculus.*
  - \* 11:00 – 11:30 Riccardo Focardi and Flaminia Luccio: *Neural Cryptanalysis of Classical Ciphers.*
  - \* 11:30 – 12:00 Laura Bozzelli, Alberto Molinari, Angelo Montanari, Adriano Peron and Gerhard Woeginger: *Timeline-based Planning over Dense Temporal Domains with Trigger-less Rules is NP-complete.*
  - \* 12:00 – 12:30 Armando B. Matos, Luca Paolini and Luca Roversi: *The Fixed Point Problem for General and for Linear SRL Programs is Undecidable.*
- 12:30 – 14:00 **Lunch** (Caffè degli Archi c/o Circolo Cittadino, Piazza della Repubblica 12)
- 14:00 – 15:50 **Session 4: Logics and Constraints** [chair: Marino Miculan]
  - \* 14:00 – 14:30 Pietro Sala: *Metric Right Propositional Neighborhood Logic with an Equivalence Relation.*
  - \* 14:30 – 15:00 Loredana Sorrentino, Sasha Rubin and Aniello Murano: *GCTL\* over Finite Paths.*
  - \* 15:00 – 15:30 Laura Giordano and Alberto Policriti: *Power (Set) ALC.*
  - \* 15:30 – 15:50 Giovanni Amendola, Francesco Ricca and Mirek Truszczyński: *Random Models of Very Hard 2QBF and Disjunctive Programs: An Overview.*
- 15:50 – 16:20 **Coffee break** (courtyard of Collegio Raffaello)
- 16:20 – 19:00 **Events** [chair: Angelo Montanari – President of IC-EATCS, U. Udine]
  - \* IC-EATCS award ceremony:
    - *Best young researcher*: Nicola Prezza, U. Pisa.
    - *Best PhD thesis (Mattia Gastaldello award)*: Michele Ciampi, U. Edinburgh, and Luisa Siniscalchi, U. Salerno (ex aequo).
    - *Best master thesis*: Francesco Dagnino, U. Genova.
  - \* IC-EATCS annual meeting.
- 20:30 **Social dinner** (Ristorante Il Cortegiano, Via Puccinotti 13)

# ICTCS 2018

## 19th Italian Conference on Theoretical Computer Science

### Program day 3

Thursday 20 September 2018

Aula Magna Collegio Raffaello

Piazza della Repubblica 13, second floor

- 9:00 – 10:00 **Invited talk** [chair: Alessandro Aldini]
  - \* Rossella Petreschi (U. Roma Sapienza): *On Pairwise Compatibility Graphs.*
- 10:00 – 10:30 **Coffee break** (courtyard of Collegio Raffaello)
- 10:30 – 12:30 **Session 5: Formal Languages and Static Analysis** [chair: Ivano Salvo]
  - \* 10:30 – 11:00 Antonio Caruso and Stefano Bistarelli: *Preliminary Results on the Modeling of System Level Diagnosis Problems with Abstract Argumentation.*
  - \* 11:00 – 11:30 Paolo Massazza: *On the Generating Functions of Languages Accepted by Deterministic One-reversal Counter Machines.*
  - \* 11:30 – 11:50 Bruno Guillon, Giovanni Pighizzini and Luca Prigioniero: *On Some Succinct Representations of Regular Languages.*
  - \* 11:50 – 12:10 Bruno Guillon and Luca Prigioniero: *Linear-Time Limited Automata.*
  - \* 12:10 – 12:30 Gianluca Amato, Maria Chiara Meo and Francesca Scozzari: *A Taxonomy of Program Analyses.*
- 12:30 – 13:45 **Lunch** (Caffè degli Archi c/o Circolo Cittadino, Piazza della Repubblica 12)
- 13:45 – 14:45 **Event**
  - \* Seminar in honour of Corrado Böhm.  
Speakers: Ugo de' Liguoro (U. Torino) and Benedetto Intrigila (U. Roma Tor Vergata).
- 15:00 – 16:50 **Session 6: Concurrency** [chair: Stefano Bistarelli]
  - \* 15:00 – 15:30 Alessio Mansutti and Marino Miculan: *Deciding Hedged Bisimilarity.*
  - \* 15:30 – 16:00 Silvia Crafa and Daniele Varacca: *On the Reactive Nature of Financial Networks.*
  - \* 16:00 – 16:30 Tommaso Padoan: *Relating some Logics for True Concurrency.*
  - \* 16:30 – 16:50 Valentina Castiglioni, Michele Loreti and Simone Tini: *Trace Metrics on Non-deterministic Probabilistic Processes.*
- 16:50 – 17:00 **Closing**