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Theoretical Computer Science

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Editorial

The Italian Conference on Theoretical Computer Science



The Italian Conference on Theoretical Computer Science (ICTCS) is organized by the Italian Chapter of the European Association for Theoretical Computer Science (EATCS). Its objective is to favor the dissemination and promotion of scientific research in all fields of theoretical computer science in Italy, by involving both national and international experts in the area.

The 19th edition of the conference took place in Urbino, on September 18–20, 2018. The scientific program included 25 contributed papers.

This volume contains a selection of extended versions of 8 papers presented at the conference. All included papers were accepted only after being reviewed according to the journal standards.

The paper by Bozzelli, Molinari, Montanari, Peron, and Woeginger considers the timeline-based approach to planning by focusing on decidability and complexity issues. Giordano and Policriti explore the relations existing between Description Logics and Set Theory. Murano, Parente, Rubin, and Sorrentino introduce an extension of Computation Tree Logic dealing with finite paths and capable of counting the number of such paths.

The work by Amato, Meo, and Scozzari elaborates on abstract interpretation theory and collecting semantics. Castiglioni, Loreti, and Tini propose notions of behavioral metrics both in linear-time and branching-time approaches. Dal Lago and Vanoni study randomised reduction strategies for the lambda calculus. The paper by Matos, Paolini, and Roversi analyzes fixed-point problems of the programming language SRL. Finally, Bilò and Vinci investigate in the setting of algorithmic game theory properties of affine congestion games.

We would like to thank the authors, the reviewers, and all the people who contributed to the conference and this special issue.

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