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RCRA 2016

Proceedings of the 23rd RCRA International Workshop on Experimental Evaluation of Algorithms for Solving Problems with Combinatorial Explosion

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Preface

This volume contains the papers presented at RCRA 2016, the 23rd RCRA International Workshop on “Experimental Evaluation of Algorithms for Solving Problems with Combinatorial Explosion” held on November 28, 2016 in Genova.

Since the 2005 edition, the RCRA workshops have focused on the theme of algorithms in artificial intelligence, proposing benchmarks to compare them and study their efficiency through experimental evaluation. Since then, the conference was organized in Udine (Italy), Reggio Emilia (Italy), Bologna (Italy), Barcelona (Spain), Rome (Italy), Vienna (Austria), Pisa (Italy), and Ferrara (Italy).

There were 13 submissions. Each submission was reviewed by at least four program committee members. The committee decided to accept all 13 papers for presentation at RCRA 2016. Among them 7 are original papers and are included in this volume.

We would like to thank Program Committee members and the external reviewers of RCRA 2016 for their work, as well as to the authors who submitted their articles to the conference.

We also would like to thank the Department of Informatics, Bioengineering, Robotics and Systems Engineering, DIBRIS, of the University of Genova and the organizers of AI*IA 2016, for hosting RCRA 2016.

Finally we acknowledge the EasyChair team and CEUR-WS.org that helped us in organizing the conference and producing the proceedings.

November 2016
Genova

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Completion of disjunctive logic programs

Mario Alviano, Carmine Dodaro.

Appeared in S. Kambhampati, (Ed.): Proceedings of the Twenty-Fifth International Joint Conference on Artificial Intelligence, IJCAI 2016, pp. 886–892. AAAI Press

Anytime answer set optimization via unsatisfiable core shrinking

Mario Alviano, Carmine Dodaro.

Appeared in Theory and Practice of Logic Programming, 16(5-6), pp. 533–551, 2016. Cambridge University Press

ASPQ: an ASP-based 2QBF solver

Giovanni Amendola, Carmine Dodaro, Francesco Ricca.

Appeared in Proceedings of the 4th International Workshop on Quantified Boolean Formulas (QBF 2016). CEUR Workshop Proceedings vol. 1719, pp. 49–54. 2016

A privacy-preserving model for the multi-agent propositional planning problem

Andrea Bonisoli, Alfonso Emilio Gerevini, Alessandro Saetti, Ivan Serina.

Appeared in Proceedings of the 2nd Workshop on Distributed and Multi-Agent Planning of 24th International Conference on Automated Planning and Scheduling, pp. 25–29, 2014.

I-DLV: the new intelligent grounder of DLV

Francesco Calimeri, Davide Fuscà, Simona Perri, Jessica Zangari.

*Appeared in Proceedings of XV Conference of the Italian Association for Artificial Intelligence, AI*IA 2016.*

A Framework for easing the development of applications embedding answer set programming

Davide Fuscà, Stefano Germano, Jessica Zangari, Marco Anastasio, Francesco Calimeri, Simona Perri.

Appeared in Proceedings of the 18th International Symposium on Principles and Practice of Declarative Programming, PPDP 2016, pp. 38–49, 2016. ACM