

Mario Alviano

Associate Professor, Ph.D.

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Research Interests

Keywords Artificial Intelligence, Knowledge Representation and Reasoning, Logic Programming, Nonmonotone Reasoning, Combinatorial Search, Combinatorial Optimization

Subfields Answer Set Programming, MaxSAT, Datalog, Fuzzy Logic

Software WASP, MAXINO, CIRCUMSCRIPTINO, DLV, PYGLAF, FASP2SMT

Skills Scientific writing, concept abstraction, theoretical analysis, pragmatic approach, coding

Experience

2017–today **Associate Professor**, *Computer Science*, University of Calabria (UNICAL), Italy.
Master classes of *Knowledge Representation and Semantic Web*, and *Secure Software Design*.

2013–2016 **Researcher**, *Computer Science*, UNICAL.

2011–2012 **PostDoc**, *Computer Science*, UNICAL.

Education

2007–2010 **Ph.D.**, *Computer Science*, UNICAL, ECCAI Honourable Mention.

2005–2007 **Master**, *Computer Science*, UNICAL, cum laude and honorable mention.

2002–2005 **Bachelor**, *Computer Science*, UNICAL, cum laude and honorable mention.

Awards (selection)

2017 **AI*IA Marco Somalvico Award**, assigned by the Italian Association for Artificial Intelligence to young researchers (under 35) for their personal contribution to AI.

2016 **ICLP Best Paper**, *Anytime answer set optimization via unsatisfiable core shrinking*, co-authored with Carmine Dodaro.

2015 **ICLP Best Paper**, *Complexity and compilation of GZ-aggregates in answer set programming*, co-authored with Nicola Leone.

2012 **ECCAI Honourable Mention**, assigned by the European Coordinating Committee for Artificial Intelligence to the three best European doctoral dissertations in AI.

2008 **AI*IA Best Master Thesis Award**, assigned by the Italian Association for Artificial Intelligence to the best thesis in AI.

Visits to foreign universities

2015 **Vienna University of Technology**, collaboration with Andreas Pieris, March–June.

2014 **University of Oxford**, collaboration with Andreas Pieris, March–June.

2009 **Vienna University of Technology**, collaboration with Wolfgang Faber, April–May.

2005 **Vienna University of Technology**, Bachelor Thesis supervised by Giovambattista Ianni and Thomas Eiter, April–May.

Short visits by invitation

2019 **Mindanao State University and University of Science and Technology of Southern Philippines**, lecture series on Artificial Intelligence.

2017 **University of Helsinki**, collaboration with Matti Järvisalo.

2016 **University of Potsdam**, collaboration with Torsten Schaub.

2015 **University of Klagenfurt**, collaboration with Konstantin Schekotihin.

2014 **University of Huddersfield**, collaboration with Wolfgang Faber.

Partecipation in Committees (selection)

2019 **Program Chair of AI*IA 2019**, *the 18th International Conference of the Italian Association for Artificial Intelligence*, Rende (CS), Italy, 19-22 November.

2019 **Program Chair of DATALOG 2.0 2019**, *the 3rd International Workshop on the Resurgence of Datalog in Academia and Industry*, Philadelphia, PA (USA), 3-5 June.

2019 **Workshops Chair of LPNMR 2019**, *the 15th International Conference on Logic Programming and Nonmonotonic Reasoning*, Philadelphia, PA (USA), 3-7 June.

2011-2019 **PC member**, AAI 2017-2019; IJCAI 2011, 2015-2019; KR 2018; ICLP 2017-2019; JELIA 2019; RuleML 2015, 2017; PADL 2016, 2019; LNMR 2015 .

Publications (selection)

- 1 Mario Alviano, Wolfgang Faber, Gianluigi Greco, Nicola Leone: **Magic Sets for disjunctive Datalog programs**. *Artif. Intell.* 187: 156-192 (2012)
- 2 Mario Alviano, Francesco Calimeri, Wolfgang Faber, Nicola Leone, Simona Perri: **Unfounded Sets and Well-Founded Semantics of Answer Set Programs with Aggregates**. *J. Artif. Intell. Res.* 42: 487-527 (2011)
- 3 Mario Alviano, Carmine Dodaro: **Anytime answer set optimization via unsatisfiable core shrinking**. *TPLP* 16(5-6): 533-551 (2016)
- 4 Mario Alviano, Nicola Leone: **Complexity and compilation of GZ-aggregates in answer set programming**. *TPLP* 15(4-5): 574-587 (2015)
- 5 Mario Alviano, Carmine Dodaro, Francesco Ricca: **Anytime Computation of Cautious Consequences in Answer Set Programming**. *TPLP* 14(4-5): 755-770 (2014)
- 6 Mario Alviano, Carmine Dodaro, Francesco Ricca: **A MaxSAT Algorithm Using Cardinality Constraints of Bounded Size**. *IJCAI* 2015: 2677-2683
- 7 Mario Alviano, Carmine Dodaro, Nicola Leone, Francesco Ricca: **Advances in WASP**. *LPNMR* 2015: 40-54
- 8 Paul Saikko, Carmine Dodaro, Mario Alviano, Matti Järvisalo: **A Hybrid Approach to Optimization in Answer Set Programming**. *KR* 2018: 32-41
- 9 Mario Alviano, Wolfgang Faber, Hannes Strass: **Boolean Functions with Ordered Domains in Answer Set Programming**. *AAAI* 2016: 879-885
- 10 Mario Alviano, Andreas Pieris: **Default Negation for Non-Guarded Existential Rules**. *PODS* 2015: 79-90