

Francesco Santini

Curriculum Vitae

My current interests are oriented to Abstract Argumentation Frameworks, Argumentation Logic, Constraint (Logic) Programming, Concurrent/Coordination Models and Languages, and Trust and Reputation Systems and Cyber-security.

Education

- April 2009 **Ph.D. in Computer Science and Engineering**, *IMT Institute of Advanced Studies, Lucca.*
First Class Honours
- 2003 **Master in Computer Science and Technologies**, *University of Pisa.*
Specialisation in Networks
- 2001 **Bachelor in Computer Science**, *University of Pisa.*

Ph.D. Thesis

- Title *Soft constraints Tools for Quality Aspects: Languages, Frameworks and Aggregation Schemes*
- Advisors Prof. Stefano Bistarelli. Internal board: Dr. Fabio Martinelli and Prof. Ugo Montanari
- Description The aim of thesis is to provide expressive means (e.g., languages and frameworks) in order to model and solve preference-driven problems with the help of Soft Constraint Programming, benefiting from Artificial Intelligence techniques to tackle this kind of optimization problems.

Experience

- December 2016 - now **Assistant Professor**, (TENURED, "TD-B") DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE, UNIVERSITY OF PERUGIA, Perugia, Italy.
- June 2015 - November 2016 **Assistant Professor**, (NON-TENURED, "TD-A") DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE, UNIVERSITY OF PERUGIA, Perugia, Italy.

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- 2014 – 2015 **Research Fellow**, INSTITUTE OF INFORMATICS AND TELEMATICS, NATIONAL RESEARCH COUNCIL - (CNR), Pisa, Italy.
- 2012 – 2013 **ERCIM “Alain Bensoussan’ Fellow**, EQUIPE PROJET CONTRAINTES, INRIA-ROCQUENCOURT, Paris, France.
- 2011 – 2012 **ERCIM “Alain Bensoussan” Fellow**, CENTRUM VOOR WISKUNDE EN INFORMATICA (CWI), Amsterdam, The Netherlands.
- 2010 – 2011 **Research Fellow**, DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE, UNIVERSITY OF PERUGIA, Perugia, Italy.
- 2009 – 2010 **Research Fellow**, DEPARTMENT OF SCIENCE, UNIVERSITY “G. D’ ANNUNZIO”, Pescara, Italy.
- 2006 – 2009 **Ph.D Student**, IMT (INSTITUTE, MARKETS, TECHNOLOGIES) INSTITUTE OF ADVANCES STUDIES, Lucca, Italy.
- 2004 – 2006 **Research Programmer**, INSTITUTE OF INFORMATICS AND TELEMATICS, NATIONAL RESEARCH COUNCIL - (CNR), Pisa, Italy.

Visiting Periods

- 2016 **March 2016 - April 2016**, UNIVERSITY OF MELBOURNE AND ROYAL MELBOURNE INSTITUTE OF TECHNOLOGY, Melbourne, Australia.
- 2008 **December 2008 - May 2009**, CORK CONSTRAINT COMPUTATION CENTRE (4C), Cork, Ireland.

Publications in Journals

- 2016 **Residuation for bipolar preferences in soft constraints**, *F. Gadducci, F. Santini, Inf. Proc. Letters, vol. 118, Elsevier.*
- 2015 **A Comparative Test on the Enumeration of Extensions in Abstract Argumentation**, *S. Bistarelli, F. Rossi, F. Santini, Fundamenta Informaticae, IOS Press.*
- 2015 **Partially-Distributed Coordination with Reo and Constraint Automata**, *S-S.T.Q. Jongmans, F. Santini, F. Arbab, Service Oriented Computing and Applications, Springer.*
- 2015 **On Merging Two Trust-Networks in One with Bipolar Preferences**, *S. Bistarelli, F. Santini, Mathematical Structures in Computer Science, Cambridge University Press.*
- 2014 **Timed Soft Concurrent Constraint Programs: An Interleaved and a Parallel Approach**, *S. Bistarelli, M. Gabbrielli, M. C. Meo, F. Santini, Theory and Practice of Logic Programming.*
- 2013 **A Secure Non-monotonic Soft Concurrent Constraint Language**, *S. Bistarelli, F. Santini, Fundamamenta Informaticae 134(3-4): 261-285.*
- 2013 **Orchestrating Web Services using Reo: From Circuits and Behaviors to Automatically Generated Code**, *S-S.T.Q. Jongmans, F. Santini, M. Sargolzaei, F. Arbab, H. Afsarmanesh, Service Oriented Computing and Applications 8(4): 277-297, Springer.*

- 2012 **Coalitions of Arguments: An Approach with Constraint Programming**, S. Bistarelli, F. Santini, *Fundamenta Informaticae*, 124(4): 383-401.
- 2012 **A Semiring-Based Framework for the Deduction/Abduction Reasoning in Access Control with Weighted Credentials**, S. Bistarelli, F. Martinelli, F. Santini, *Computer & Mathematics with Applications*, Elsevier.
- 2011 **Evaluation of complex security scenarios using defense trees and economic indexes**, S. Bistarelli, F. Fioravanti, P. Peretti, F. Santini, *Journal of Experimental & Theoretical Artificial Intelligence*.
- 2011 **Local Arc Consistency for Non-Invertible Semirings, with an Application to Multi-Objective Optimization**, S. Bistarelli, F. Gadducci, J. Larrosa, E. Rollon, F. Santini, *Expert Systems with Applications*, Elsevier.
- 2011 **A Nonmonotonic Soft Concurrent Constraint Language to Model the Negotiation Process**, S. Bistarelli, F. Santini, *Fundamenta Informaticae* 111(3): 257-279.
- 2010 **Unicast and Multicast QoS Routing with Soft Constraint Logic Programming**, S. Bistarelli, U. Montanari, F. Rossi, F. Santini, *accepted in Transaction on Computational Language*, *ACM Trans. Comput. Log.* 12(1): 5.
- 2010 **Semiring-based Frameworks for Trust Propagation in Small-World Networks and Coalition Formation Criteria**, S. Bistarelli, S. N. Foley, B. O'Sullivan, F. Santini, *Security and Communication Networks (Special Issue)*, Wiley and Sons.
- 2010 **Implementing and Testing a Formal Framework for Constraint-Based Routing over Scale-free Networks**, S. Bistarelli, F. Santini, *International Journal on Advances in Networks and Services*, vol. 2, issn: 1942-2644.
- 2007 **An Asymmetric Fingerprint Matching Algorithm for Java Card**, S. Bistarelli, F. Santini, A. Vaccarelli, *Pattern Analysis and Application Journal*, vol. 9, Issue 4, ISSN: 1433-754, Springer.

Publications in Workshop/Conferences

- 2017 **A Hasse Diagram for Weighted Sceptical Semantics**, S. Bistarelli, F. Santini: *14th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR)*, LNCS, Springer.
- 2017 **A Quantitative Partial Model-Checking Function and Its Optimisation**, S. Bistarelli, F. Martinelli, I. Matteucci, F. Santini: *International Conferences on Logic for Programming, Artificial Intelligence and Reasoning (LPAR)*, LNCS, Springer.
- 2017 **An End-to-end Voting-system Based on Bitcoin**, S. Bistarelli, M. Mantilacci, P. Santancini, F. Santini: *Symposium on Applied Computing (Trust, Recommendations, Evidence and other Collaboration Know-how Track)*, SAC, ACM.
- 2016 **Decomposing Global Quantitative Properties into Local Ones**, I. Matteucci, F. Santini: *Quantitative Aspects of Security, DPM/QASA@ESORICS 2016*, LNCS, Springer.
- 2016 **A Relaxation of Internal Conflict and Defence in Weighted Argumentation Frameworks**, S. Bistarelli, F. Rossi, F. Santini: *Logics in Artificial Intelligence - 15th European Conference (JELIA)*, LNAI, Springer.

- 2016 **Graded Justification of Arguments via Internal and External Endogenous Features**, *F. Santini: International Conference on Scalable Uncertainty Management (SUM 2016), LNCS.*
- 2016 **ConArg: A Tool for Classical and Weighted Argumentation**, *S. Bistarelli, F. Rossi, F. Santini: 6th International Conference on Computational Models of Argument. COMMA 2016, IOS.*
- 2016 **A Collective Defence Against Grouped Attacks for Weighted Abstract Argumentation Frameworks**, *S. Bistarelli, F. Rossi, F. Santini: The 29th International FLAIRS Conference FLAIRS 2016, AAAI Press.*
- 2016 **Robustness in Abstract Argumentation Frameworks**, *S. Bistarelli, F. Faloci, F. Santini, C. Taticchi: The 29th International FLAIRS Conference FLAIRS 2016, AAAI Press.*
- 2016 **From Arguments and Reviewers to their Simulation: Reproducing a Case-Study**, *S. Gabbriellini, F. Santini: International Conference on Agents and Artificial Intelligence, ICAART 2016. Scitepress.*
- 2016 **From Reviews to Arguments and from Arguments Back to Reviewers' Behaviour**, *S. Gabbriellini, F. Santini: International Conference on Agents and Artificial Intelligence, ICAART 2016. Revised Selected Papers, LNCS, Springer.*
- 2016 **Automated Adaptation via Quantitative Partial Model Checking**, *S. Bistarelli, F. Martinelli, I. Matteucci, F. Santini: Symposium on Applied Computing (Coordination Models, Languages and Applications Track), SAC 2016, ACM.*
- 2016 **A Multi-Criteria Ranking of Security Countermeasures**, *A. Bondavalli, A. Ceccarelli, F. Di Giandomenico, I. Matteucci, N. Nostro, F. Santini: Symposium on Applied Computing (Dependable and Adaptive Distributed Systems Track), SAC 2016, ACM.*
- 2015 **There Are Two Sides to Every Question - Controller vs Attacker -**, *F. Martinelli, I. Matteucci, F. Santini: Programming Languages with Applications to Biology and Security. Colloquium in Honor of Pierpaolo Degano on the Occasion of His 65th Birthday, LNCS.*
- 2015 **A Micro Study on the Evolution of Arguments in Amazon.com's Reviews**, *S. Gabbriellini, F. Santini: Principles and Practice of Multi-Agent Systems (PRIMA 2015), LNCS/LNAI.*
- 2015 **Quantitative Analysis of Network Security with Abstract Argumentation**, *F. Santini, A. Yautsiukhin: QASA 2015, 4th International Workshop on Quantitative Aspects of Security Assurance, LNCS.*
- 2015 **Towards Visualising Security with Arguments**, *S. Bistarelli, F. Rossi, F. Santini, C. Taticchi: Convegno Italiano Logica Computazionale, CILC 2015. EPTCS.*
- 2015 **Network Security Supported by Arguments**, *F. Martinelli, F. Santini, A. Yautsiukhin: Conference on Privacy Security and Trust, PST 2015. IEEE.*
- 2015 **A Labelled Semantics for Soft Concurrent Constraint Programming**, *F. Gadducci, F. Santini, Luis F. Pino, Frank D. Valencia: 17th IFIP International Conference on Coordination Models and Languages (COORDINATION). LNCS.*

- 2015 **Defeasible Logic Programming in Satisfiability Modulo CHR**, *F. Santini: 14th Conference of the Italian Association for Artificial Intelligence. LNCS/LNAI.*
- 2015 **Semiring-based Specification Approaches for Quantitative Security**, *F. Martinelli, I. Matteucci, F. Santini: 13th International Workshop on Quantitative Aspects of Programming Languages and Systems 2015, EPTCS.*
- 2014 **Debating Security or Securing a Debate?**, *F. Martinelli, F. Santini: International Symposium on Foundations & Practice of Security, FPS 2014, LNCS.*
- 2014 **Efficient Solution for Credulous/sceptical Acceptance in Lower-order Dung's Semantics**, *S. Bistarelli, F. Rossi, F. Santini: International Conference on Tools with Artificial Intelligence, ICTAI 2014, IEEE.*
- 2014 **A First Comparison of Abstract Argumentation Reasoning-Tools**, *S. Bistarelli, F. Rossi, F. Santini: European Conference on Artificial Intelligence, ECAI 2014, IOS.*
- 2014 **Benchmarking Hard Problems in Random Abstract AFs: The Stable Semantics**, *S. Bistarelli, F. Rossi, F. Santini: Computational Models of Arguments, COMMA 2014, IOS.*
- 2014 **Enumerating Extensions on Random Abstract-AFs with ArgTools, Aspartix, ConArg2, and Dung-O-Matics**, *S. Bistarelli, F. Rossi, F. Santini: Computational Logic in Multi-Agent Systems, CLIMA 2014, LNCS.*
- 2014 **An Improved Role-based Access to Android Applications with JCHR**, *S. Bistarelli, G. Costantino, F. Martinelli, F. Santini: International Workshop on Security of Mobile Applications, IWSMA 2014.*
- 2014 **Two Trust Networks in One: Using Bipolar Structures to Fuse Trust and Distrust**, *S. Bistarelli, F. Santini: Conference on Privacy Security and Trust, PST 2014, IEEE.*
- 2014 **Partially Distributed Coordination with Reo**, *Sung-Shik T. Q. Jongmans, Francesco Santini, Farhad Arbab: International Conference on Parallel, Distributed, and Network-based Processing (PDP), Special Session on Formal Approaches to Parallel and Distributed Systems (4PAD).*
- 2013 **Combining Recommender and Reputation Systems mto Produce Better Online Advice**, *A. Jøsang, G. Guo, M. S. Pini, F. Santini, Y. Xu: MDAI 2013, Springer (to appear).*
- 2013 **A Tool for Behaviour-based Discovery of Approximately Matching Web Services**, *M. Sargolzaei, F. Santini, F. Arbab, H. Afsarmanesh: SEFM 2013, 152-166, Springer.*
- 2013 **Validating Configurations of Reo circuits in an e-Banking Scenario**, *M. H. ter Beek, F. Gadducci, F. Santini: International Symposium on Architecting Critical Systems (ISARCS), ACM, 2013.*
- 2012 **Automatic Code Generation for the Orchestration of Web Services with Reo**, *S.-S. T. Q. Jongmans, F. Santini, M. Sargolzaei, F. Arbab, H. Afsarmanesh: European Conference on Service Oriented and Cloud Computing, ESOC 2012, Springer, vol 7592.*

- 2012 **Preference and Similarity-based Behavioral Discovery of Services**, F. Arbab, F. Santini. *9th International Workshop on Web Services and Formal Methods (WS-FM) 2012*, 118-133, Springer.
- 2012 **Modelling and Simulation of Selected Operational IT Risks in the Banking Sector**, C. Brandt, F. Santini, N. Kokash, F. Arbab: *26th European Simulation and Modelling Conference (ESM 2012)*.
- 2012 **Towards a Similarity-based Web Service Discovery through Soft Constraint Satisfaction Problems**, F. Arbab, S. Bistarelli, D. Pirolandi, F. Santini. *2nd International Workshop on Semantic Search over the Web (SSW12)*, ACM (to appear).
- 2012 **ConArg: Argumentation with Constraints**, S. Bistarelli, F. Santini: *First Conference on Agreement Technologies, AT 2012*, 197-198.
- 2012 **Securely Accessing Shared Resources with Concurrent Constraint Programming**, S. Bistarelli, F. Santini: *Software Engineering and Formal Methods (SEFM 2012)*, Springer, vol 7594.
- 2012 **Solving Fuzzy Distributed CSPs: An approach with Naming Games**, S. Bistarelli, G. Gosti, F. Santini, *Workshop on Declarative Agent Languages and Technologies, DALT 2012*, 116-135, LNAI Springer..
- 2012 **A Secure Coordination of Agents with Nonmonotonic Soft Concurrent Constraint Programming**, S. Bistarelli, P. Campli, F. Santini, *SAC 2012, Track CM - Coordination Models, Languages and Applications*, ACM, isbn 978-1-4503-0857-1.
- 2012 **Solving and Testing Argumentation Frameworks with a Constraint-based Tool: ConArg**, S. Bistarelli, F. Santini, *First International Workshop on the Theory and Applications of Formal Argumentation (TFAFA)*, LNAI.
- 2011 **Finding Partitions of Arguments with Dung's Properties via SCSPs**, S. Bistarelli, P. Campli, F. Santini, *SAC 2011, Track CSP - Constraint Solving and Programming*, ACM.
- 2011 **Solving Fuzzy DCSPs with Naming Games**, S. Bistarelli, G. Gosti, F. Santini, *Annual ERCIM Workshop on Constraint Solving and Constraint Logic Programming, CSCLP 2011*.
- 2011 **ConArg: A Constraint-based Computational Framework for Argumentation Systems**, S. Bistarelli, F. Santini, *International Conference on tools for Artificial Intelligence, ICTAI 2011*, IEEE.
- 2011 **Solving Fuzzy DCSPs with Naming Games**, S. Bistarelli, G. Gosti, F. Santini, *International Conference on tools for Artificial Intelligence, ICTAI 2011*, IEEE.
- 2011 **Negotiation on mobile devices using Weighted RTML Credentials**, S. Bistarelli, F. Martinelli, F. Roperti, F. Santini, to appear in *LNCS*, ItAIS 2011.
- 2010 **A Common Computational Framework for Semiring-based Argumentation Systems**, S. Bistarelli, F. Santini, *European Conference on Artificial Intelligence, ECAI 2010*.
- 2010 **Deduction and Abduction with Soft Constraints**, S. Bistarelli, F. Martinelli, F. Santini, *5th Multidisciplinary Workshop on Advances in Preference*.

- 2010 **Computing Coalition of Arguments with CSPs**, S. Bistarelli, P. Campli, F. Santini, *Italian Conference on Theoretical Computer Science (ICTCS) 2010*.
- 2010 **A Formal Framework for Trust Policy Negotiation in Autonomic Systems: Abduction with Soft Constraints**, S. Bistarelli, P. Campli, F. Santini, S. Bistarelli, F. Martinelli, F. Santini, *Autonomous and Trusted Computing (ATC2010)*, Springer LNCS.
- 2010 **Solving Weighted Argumentation Frameworks with Soft Constraints**, S. Bistarelli, D. Pirolandi, F. Santini *CILC 2010 - Italian Conference on Computational Logic*.
- 2010 **Solving Weighted Argumentation Frameworks with Soft Constraints**, S. Bistarelli, D. Pirolandi, F. Santini, *Recent Advances in Constraints 2009, Revised Selected Papers*. Springer LNCS.
- 2010 **Extending Soft Arc Consistency to Non-Invertible Semirings**, S. Bistarelli, F. Gadducci, E. Rollon and F. Santini, *9th Mexican International Conference on Artificial Intelligence, MICAI-2010*, to appear in *LNAI Springer*.
- 2010 **Argumentation-based Interactions among Agents: Solving Weighted and Bipolar Frameworks with Soft CSPs**, S. Bistarelli, D. Pirolandi, F. Santini, *SoFT'10 - 10th Workshop on Preferences and Soft Constraints*.
- 2009 **C-semirings for Minimum Spanning Tree Problems**, S. Bistarelli, F. Santini, *Recent Trends in Algebraic Development Techniques, WADT'08*, LNCS vol. 5486, pages 56-70, ISBN 978-3-642-03428-2.
- 2009 **Soft Constraints for Dependable Service-Oriented Architectures**, S. Bistarelli, F. Santini, *Architecting Dependable Systems VI*, LNCS vol. 5835, pages 76-97, ISBN: 978-3-642-10247-9. 2009.
- 2009 **Soft Constraints for Quality Aspects in Service Oriented Architectures**, S. Bistarelli, F. Santini, *YR-SOC 2009, EPTCS 2*: 51-65.
- 2009 **Constraint-based Languages to Model the Blood Coagulation Cascade**, S. Bistarelli, M. Bottalico, F. Santini, *Logic-based approaches in Bioinformatics*.
- 2009 **Generalizing Soft Arc Consistency Algorithms through an LCD-based Semiring Transformation**, S. Bistarelli, F. Gadducci, E. Rollon and F. Santini, *24-esimo Convegno Italiano di Logica Computazionale*.
- 2008 **Propagating Multitrust within Trust Networks**, S. Bistarelli, F. Santini, *Track on "Trust, Recommendations, Evidence and other Collaboration Know-how"*, SAC 2008, ACM.
- 2008 **From Marriages to Coalitions: A Soft CSP Approach**, S. Bistarelli, S. N. Foley, B. O'Sullivan, F. Santini, *Recent Advances in Constraints 2008, Revised Selected Papers. Lecture Notes in Computer Science 5655 Springer 2009*, pages 1-15, ISBN 978-3-642-03250-9.
- 2008 **Weighted Datalog and Levels of Trust**, S. Bistarelli, F. Martinelli, F. Santini, *Advances in Policy Enforcement (APE 2008) @ ARES 2008*, IEEE.
- 2008 **SCLP for Trust Propagation in Small-World Networks**, S. Bistarelli, F. Santini, *"Recent Advances in Constraints"*, LNAI vol. 5129, Springer.

- 2008 **Timed Soft Concurrent Constraint Programs**, *S. Bistarelli, M. Gabbrielli, M. C. Meo, F. Santini, COORDINATION 2008, vol. 5052, Springer.*
- 2008 **A Semantic Foundation for Trust Management Languages with Weights: An Application to the RT Family**, *S. Bistarelli, F. Martinelli, F. Santini, Autonomic and Trusted Computing (ATC-08), volume 5060, Springer.*
- 2008 **Managing Quality of Service with Soft Constraints**, *F. Santini, Doctoral Consortium at AAAI-08, AAAI press, isbn: 978-1-57735-368-3.*
- 2008 **A Nonmonotonic Soft Concurrent Constraint Language for SLA Negotiation**, *S. Bistarelli, F. Santini, Views on Designing Complex Architectures (VODCA'08), ENTCS.*
- 2008 **Managing Quality of Service with Soft Constraints**, *F. Santini, ICLP 2008, vol. 5366, LNCS Springer.*
- 2007 **A Nonmonotonic Soft Concurrent Constraint Language for SLA Negotiation**, *S. Bistarelli, F. Santini, Views on Designing Complex Architectures (VODCA'08), ENTCS.*
- 2007 **Modelling Multicast QoS routing by Using Best-Tree Search in AND-OR Graphs and Soft Constraint Logic Programming**, *S. Bistarelli, U. Montanari, F. Rossi, F. Santini, ENTCS volume 190 issue 3, pp 111-127, Quantitative Aspects of Programming Languages, QAPL 2007.*
- 2006 **An Asymmetric Fingerprint Matching Algorithm for Java Card**, *S. Bistarelli, F. Santini, A. Vaccarelli, Audio- and Video-Based Biometric Person Authentication, AVBPA 2005, LNCS vol. 3546, Springer.*

Projects, Groups, and Support

- 2016 MSCA-RISE "GEO-SAFE" (691161), Geospatial based Environment for Optimisation Systems Addressing Fire Emergencies.
- 2016–present Member of Italian Cyber Security National Lab (node of Perugia <http://www.dmi.unipg.it/cybersecuritylab/index.html>).
- 2016 Project "Bitcoin", funded by Banca d'Italia.
- 2016 Project Viscolla ("Visualization of co-atorship"), funded by Fondazione Cassa Risparmi di Perugia.
- 2015 GNCS project: "Efficient Methods for Argumentation-based Decision Support (EMADS)".
- 2014-2015 MIUR-PRIN (Ministry of Education, Universities and Research): "Security Horizons".
- 2014-2016 Member of COST Action IC1205: Computational Social Choice, WG3: Information Merging.
- 2012-2014 European Network for Social Intelligence (SINTELNET), WG5: Social Coordination.
- 2009-2012 Member of COST Action IC0602: Algorithmic Decision Theory, WG3: Preference in Reasoning and Decision.
- 2009-2012 Member of COST Action IC0801: Agreement Technologies, WG4: Argumentation & Negotiation, and WG5: Trust.

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- 2010 MIUR-PRIN 2010-FP79LR project: “Logical Methods of Information Management”.
- 2008 MIUR PRIN 2008-9M932N: “Innovative and multi-disciplinary approaches for constraint and preference reasoning”.
- 2005 MIUR-PRIN 2005-015491, title: “Multidisciplinary Novel Approaches for Reasoning with constraints and preferences”.

Services for the scientific community

- 2017 Editor of *Fundamenta Informatica* Special Issue on Knowledge Representation and Reasoning Track @SAC 2017.
- 2017 PC-member of International Joint Conference on Artificial Intelligence (IJCAI 2017).
- 2017 PC-member of AAAI Conference on Artificial Intelligence (AAAI 2017).
- 2017 PC-member of International Conference on Agents and Artificial Intelligence (ICAART 2017).
- 2017 PC-member of International Conference on Formal Aspects of Component Software (FACS 2017).
- 2017 Co-chair of Knowledge Representation and Reasoning track, Symposium on Applied Computing (SAC 2017).
- 2016 PC-member of International Conference on Formal Aspects of Component Software (FACS 2016).
- 2016 PC-member of International Joint Conference on Artificial Intelligence (IJCAI 2016).
- 2016 PC-member of International Conference on Computational Models of Argument (COMMA 2016).
- 2016 PC-member of International Conference on Agents and Artificial Intelligence (ICAART 2016).
- 2015 PC-member of International Conference on Principles and Practice of Multi-Agent Systems (PRIMA 2015).
- 2015 PC-member of International Workshop on “Experimental Evaluation of Algorithms for solving problems with combinatorial explosion” (RCRA 2015).
- 2015 PC-member of International Joint Conference on Artificial Intelligence (IJCAI).
- 2015 PC-member of IEEE Trust Security and Privacy in Computing and Communications - TrustCom (Security Track).
- 2015 PC-member of 22nd RCRA International Workshop on Experimental Evaluation of Algorithms for solving problems with combinatorial explosion (AI*IA).
- 2014 PC-member of Italian Conference on Theoretical Computer Science (ICTCS).
- 2013 PC-member of International Joint Conference on Artificial Intelligence (IJCAI).
- 2011 Member of the organization committee in 17th International Conference on Principles and Practice of Constraint Programming (2011), taking care also of the local sponsorships.
- 2010–present Program Committee (PC) member of the Symposium on Applied Computing (SAC), track on “Constraint Solving and Programming and Knowledge Representation and Reasoning”.

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- 2010 Chair of Soft 2011, 11th Workshop on Preferences and Soft Constraints (co-located with CP2011).
- 2008–present I have been involved in the review process of the following conferences and workshops CP, IJCAI, AAI, ECAI, ICLP, COORDINATION, MFCS, TGC, WS-FM, ESOC, SAC (track on Service Oriented Architectures and Programming), PPDP, CSCLP, IFIPTM, ESORICS; and following journals, Self-Organizing Coordination for the Science of Computer Programming, special issue of AI Communications dedicated to RCRA 2011, RAIRO-Operations Research and Theory and Practice of Logic Programming (TPLP) journal, Argument & Computation - Special Issue on Applications of Logical Approaches to Argumentation, Knowledge Engineering Review journal.

Teaching

- 2016-2017 COMPUTER PROGRAMMING I, 68 hours teaching. Bachelor in Computer Science, University of Perugia.
- 2016-2017 INTRODUCTION TO COMPUTER SCIENCE, 30 hours teaching. Bachelor in Obstetrics, University of Perugia.
- 2016-2017 INTRODUCTION TO COMPUTER SCIENCE, 32 hours teaching. Bachelor in Dentistry, University of Perugia.
- 2015-2016 COMPUTER PROGRAMMING I, 68 hours teaching. Bachelor in Computer Science, University of Perugia.
- 2015-2016 INFORMATICS II, 62 hours teaching. Bachelor in Mathematics, University of Perugia.
- 2015-2016 INTRODUCTION TO COMPUTER SCIENCE, 30 hours teaching. Bachelor in Obstetrics, University of Perugia.
- 2015-2016 INTRODUCTION TO COMPUTER SCIENCE, 32 hours teaching. Bachelor in Dentistry, University of Perugia.
- 2014-2015 INTRODUCTION TO COMPUTER SCIENCE, 30 hours teaching. Bachelor in Obstetrics, University of Perugia.
- 2009-2010 LAB. OF WEB TECHNOLOGIES, 40 hours teaching. Bachelor in "Computer Science for Economics", Faculty of Economics, University "G. d'Annunzio" di Chieti-Pescara (lectures covered XHTML and CSS).
- 2009-2010 PLANNING AND ASSESSING SECURITY IN COMPUTER SCIENCE, 10 hours support to Master in Computer Science, University of Perugia.
- 2009-2010 CONSTRAINT SYSTEMS, 10 hours support to Master in Computer Science, University of Perugia.

Supervision of students

- 2015-now Supervision of bachelor and master thesis in Computer Science (University of Perugia).
- 2012-now Co-supervision of Mahdi Sargolzaei, PhD student at Universiteit van Amsterdam, together with Prof. Hamideh Afsarmanesh and Prof. Farhad Arbab.

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Invited talks

- 2016 Title: "Relaxation of Internal Conflict and Defence in Weighted Argumentation Frameworks ", Department of Mathematics and Computer Science, University Renee-Descartes, Paris, France. (ref. Prof. Pavlos Moraitis)
- 2013 Title: "Computational Models and Tools to Solve Abstract Argumentation Frameworks", Department of Computer Science University of Tulane, New Orleans, Louisiana, USA. (ref. Prof. Brent Venable)

Summer schools

- 2011 6th International School on Constraint Programming "Hybrid Methods for Constraint Programming" (ACP school), Turunc, Turkey.
- 2010 1st International School on Constraint Handling Rules (CHR), Leuven, Belgium.
- 2008 8th International School on Foundations of Security Analysis and Design (FOSAD 2008), Bertinoro Italy.
- 2007 3rd International School on Constraint Programming (ACP school), Lloret de Mar, Spain.
- 2006 Participation to the 6th International School on Foundations of Security Analysis and Design (FOSAD 2006), Bertinoro Italy.



Grants and Awards

- 2016 Microsoft Azure Research Award on Data Analytics.
- 2008 Grant from Gruppo Nazionale per il Calcolo Scientifico (GNCS) to support my presence at FLAIRS 2015.
- 2015 FP7 Marie Curie Award (from the FP7 Marie Curie action team).
- 2015 Micro Travel Grant from the Marie Curie Alumni Association.
- 2011 IJCAI Travel Grant Program to support my presence at IJCAI 2011.
- 2010 European Coordinating Committee for Artificial Intelligence to support my presence at ECAI 2010.
- 2010 "Progetto Giovani Ricercatori" prize, Gruppo Nazionale per il Calcolo Scientifico (GNCS).
- 2008 Grant from Gruppo Nazionale per il Calcolo Scientifico (GNCS) to support my presence at SAC 2008.
- 2008 Grant from Association for the Advancement of Artificial Intelligence (AAAI) to support my presence at AAAI 2008.

Administrative duties

- 2015-2016 Member of the steering committee of the Bachelor and Master in Computer Science, Department of Mathematics and Computer Science, Perugia

Certifications

- 2016 Qualification a Maitre de conferences.
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 <https://sites.google.com/site/santinifrancesco/>

- 2004 Qualification for the (Italian) Engineer Profession.
- 2009 Executive Master in Project Management.