

Fabio Mogavero, Ph.D.

Postdoctoral Researcher

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*“Thought is only a flash between two long nights,
but this flash is everything.” - Henri Poincare*

Personal Information

Surname & Name Mogavero Fabio
Birth date May 31st, 1983
Nationality Italian
Email fabio.mogavero@cs.ox.ac.uk

Current Position

Date (since) July 1st, 2015
Qualification Research Assistant
Field Theoretical Computer Science
Research program Generating Plans From Proofs
Project “Proof-Driven Querying”
Department Department of Computer Science
Institute Oxford University
Address Wolfson Building, Parks Road, OX1 3QD, Oxford, UK
Advisor Prof. Dr. Michael Benedikt

Research Interests

Topics Formal specification, verification, and synthesis of systems; Database theory; Decidability and undecidability of logic languages; Temporal and strategic logics; Games in theoretical computer science; Automata on finite and infinite objects.

Former Positions

Dates (from - to) November 11th, 2014 - January 15th, 2016
Qualification Free Postdoctoral Researcher
Field Theoretical Computer Science
Department Department of Mathematics and Applications
Institute Università degli Studi di Napoli Federico II

Dates (from - to) November 1st, 2012 - October 31st, 2014
Qualification Postdoctoral Researcher
Field Theoretical Computer Science
Research program Techniques for Software Verification and Validation
Project “Embedded Systems”
Department Department of Physics
Institute Università degli Studi di Napoli Federico II
Advisor Prof. Dr. Aniello Murano

- Dates (from - to)** November 1st, 2011 - October 31st, 2012
Qualification Postdoctoral Researcher
Field Theoretical Computer Science
Research program Logics of Strategy
Department Department of Physics
Institute Università degli Studi di Napoli Federico II
Advisor Prof. Dr. Aniello Murano
- Dates (from - to)** July 15th - October 15th, 2011
Qualification Scholar
Field Education in Science and Technologies
Research program Scientific Communication and Permanent Learning of Science
 Project “Lifelong Learning Programme”
Department Department of Physics
Institute Università degli Studi di Napoli Federico II
Advisor Prof. Dr. Aniello Murano
- Dates (from - to)** February 16th - March 12th, 2010
Qualification Visiting Scholar
Field Theoretical Computer Science
Department School of Computer Science and Engineering
Institute Hebrew University, Jerusalem, Israel
Advisors Prof. Dr. Orna Kupferman, Prof. Dr. Moshe Y. Vardi
- Dates (from - to)** August 18th - December 18th, 2008
Qualification Visiting Scholar
Field Theoretical Computer Science
Department Department of Computer Science
Institute Rice University, Houston, Texas, USA
Advisor Prof. Dr. Moshe Y. Vardi
- Dates (from - to)** November 1st, 2007 - February 28th, 2008
Qualification Researcher Collaborator
Field Theoretical Computer Science
Research program Policy Specification, Enforcement, and Integration
 Network of Excellence “REWERSE” (Reasoning on the Web)
Department Department of Physics
Institute Università degli Studi di Napoli Federico II
Advisor Prof. Dr. Piero A. Bonatti

Education Degrees

Academic degrees

- Dates (from - to)** November, 2007 - October, 2010
Degree Doctorate (Ph.D.)
Field Computational and Informatics Sciences (Computer Science)
Institute Università degli Studi di Napoli Federico II, Naples, Italy
Accomplishment January 21st, 2011
Final mark Summa cum laude

Thesis Logics in Computer Science
Supervisor Prof. Dr. Aniello Murano

Dates (from - to) September, 2005 - October, 2007
Degree Master Degree
Field Computer Science Engineering
Institute Università degli Studi di Napoli Federico II, Naples, Italy
Accomplishment October 29th, 2007
Final mark Magna cum laude (110/110 with great honor)
Thesis Branching-Time Temporal Logics (Theoretical Issues and a Computer Science Application)
Supervisor Prof. Dr. Aniello Murano
Advisors Prof. Dr. Adriano Peron and Prof. Dr. Carlo Sansone

Dates (from - to) September, 2002 - September, 2005
Degree Bachelor Degree
Field Computer Science Engineering
Institute Università degli Studi di Napoli Federico II, Naples, Italy
Accomplishment September 29th, 2005
Final mark Cum laude (110/110 with honor)
Thesis Sui Metodi e gli Algoritmi di Fattorizzazione
Supervisor Prof. Dr. Vincenzo Ferone

High school diploma

Dates (from - to) September, 1997 - July, 2002
Degree Scientific Diploma
Institute Liceo Scientifico “Giovanni da Procida”
Accomplishment July 2nd, 2002
Final mark 100/100

Technology Skills

Skill Imperative Programming Languages: Assembler (x86 & 68k), C/C++, Java, Visual Basic

Skill Functional/Logical Programming Languages: Haskell, OCaml, Prolog

Skill Markup Languages: \LaTeX 2 ϵ & \TeX , HTML & XHTML, MathML, XML

Skill Mathematical Software: MATLAB, Derive

Skill Computer-Aided Design Software: AutoCAD, Eagle

Skill Operative Systems: Unix & Linux, Windows

Languages

Mother tongue Italian
Foreign language English (fluent)

Awards

- [1] **Award** Best Italian PhD Theses in Theoretical Computer Science, 2012
Award entitled to the memory of Prof. Nadia Busi
 Institute Italian Chapter of the EATCS
 Date September 20th, 2012

Fellowships

- [1] **Fellowship** Short Visit Grant n.3339 as Visiting Scholar
 Institute ESF GAMES Project
 Dates (from - to) February 16th - March 12th, 2010
- [2] **Fellowship** Visiting Scholar
 Institute Rice University, Houston, Texas, USA
 Dates (from - to) August 18th - December 18th, 2008
- [3] **Fellowship** Ph.D. Student
 Institute Università degli Studi di Napoli Federico II, Napoli, Italy
 Dates (from - to) November 1st, 2007 - October 31st, 2010

Fundings

- [1] **Funding** GNCS Young Researchers 2014 (€1.5K)
 Role Principal investigator
 Topic From Strategy Logic to First-Order Logic and Back Again
 Institute GNCS - INdAM
 Dates (from - to) January 16th, 2015 - January 15th, 2016

Research Projects

- [1] **Project** Proof-Driven Querying
 Typology U.K. national project (EPSRC)
 Dates (from - to) July 2015 - June 2017
- [2] **Project** Automata, Games, and Temporal Logics for the Verification and Synthesis of Controller for Safety-Critical Systems
 Typology Italian national project (GNCS)
 Dates 2014
- [3] **Project** Extended Game Logics
 Typology Italian national project (GNCS)
 Dates 2013
- [4] **Project** Vigevani Project Prize
 Typology International project
 Dates (from - to) 2010 - 2011
- [5] **Project** Logics, Automata, and Games for the Formal Verification of Complex Systems

Typology Italian national project (GNCS)

Dates 2010

[6] **Project** Network of Excellence “REWERSE” (Reasoning on the Web)

Typology International project

Dates (from - to) December 2007 - February 2008

Event Organizations

[1] **Role** Co-chair

Event 3rd International Workshop on Strategic Reasoning (SR 2015), Oxford, United Kingdom, September 21-22, 2015

[2] **Role** Co-chair

Event 2nd International Workshop on Strategic Reasoning (SR 2014), Grenoble, France, April 5-6, 2014

[3] **Role** Co-chair

Event 1st International Workshop on Strategic Reasoning (SR 2013), Rome, Italy, March 16-17, 2013

[4] **Role** Organizing member

Event 5th Workshop of the ESF Networking Programme on Games for Design and Verification (GAMES 2012), Naples, Italy, September 7-12, 2012

[5] **Role** Organizing member

Event 1st International Symposium on Games, Automata, Logics and Formal Verification (GANDALF 2010), Minori, Italy, June 17-18, 2010

Community Services

[1] **Activities** Program Committee Member: CILC

Journal Reviewer: ACM Transactions on Computational Logic (ToCL)

Conference Reviewer: CSL, ICALP, and TACAS

Year 2017

[2] **Activities** Program Committee Member: AAMAS

Journal Reviewer: Information and Computation (I&C)

Conference Reviewer: AAMAS, FOSSACS, GANDALF, and LICS

Year 2016

[3] **Activities** Program Committee Member: SR

Journal Reviewer: Journal of Logic and Computation (JLC)

Conference Reviewer: AAI, FSTTCS, SAC, and SR

Year 2015

[4] **Activities** Journal Reviewer: ACM Transactions on Computational Logic (ToCL)

Conference Reviewer: AAMAS, CSL-LICS, and ECAI

Year 2014

[5] **Activities** Program Committee Member: SR

Journal Reviewer: Logical Methods in Computer Science (LMCS)

Conference Reviewer: FSTTCS, LICS, SR, and TACAS

Year 2013

- [6] **Activities** Journal Reviewer: IEEE Transactions on Computers (TC)
 Conference Reviewer: CAV and GANDALF
 Year 2011
- [7] **Activity** Conference Reviewer: CSL, FORMATS, and LICS
 Year 2010
- [8] **Activity** Conference Reviewer: IJCAI
 Year 2009

Teaching Activities

- [1] **Typology** Tutor & Teaching Assistant
 Course Computer Aided Formal Verification
 Dates (from - to) October - December, 2016
 Institute University of Oxford
- [2] **Typology** Tutor & Teaching Assistant
 Course Computer Aided Formal Verification
 Dates (from - to) October - December, 2015
 Institute University of Oxford
- [3] **Typology** Teacher
 Course Strategic Reasoning (ESSLLI 2013 Summer School)
 Dates (from - to) August 5-9, 2013
 Institute Heinrich Heine University of Düsseldorf
- [4] **Typology** Teaching Assistant
 Course Computability and Complexity
 Dates (from - to) March - July, 2012
 Institute Università degli Studi di Napoli Federico II
- [5] **Typology** Teaching Assistant
 Course Computability and Complexity
 Dates (from - to) March - July, 2011
 Institute Università degli Studi di Napoli Federico II
- [6] **Typology** Teaching Assistant
 Course Computability and Complexity
 Dates (from - to) March - July, 2010
 Institute Università degli Studi di Napoli Federico II

Advised Students

Doctoral degree

- [1] **Student** Daniele Dell'Erba
 Date (since) November 2016
 Institute Università degli Studi di Napoli Federico II, Napoli, Italy
 Note co-advised with Prof. Dr. Massimo Benerecetti

Master's degree

- [1] **Student** Daniele Dell'Erba
 Dates (from - to) April 2014 - July 2015
 Institute Università degli Studi di Napoli Federico II, Napoli, Italy
 Final mark Cum laude (110/110 with honor)
 Thesis Solving Parity Games using Priority Promotion Techniques
 Note co-advised with Prof. Dr. Massimo Benerecetti
- [2] **Student** Vadim Malvone
 Dates (from - to) April 2013 - July 2014
 Institute Università degli Studi di Napoli Federico II, Napoli, Italy
 Final mark Cum laude (110/110 with honor)
 Thesis Graded Modalities in Strategic Reasoning
 Note co-advised with Prof. Dr. Aniello Murano

References

- [1] **Reference** Prof. Dr. Moshe Y. Vardi
 Institute Rice University
 Email vardi@cs.rice.edu
 Homepage <http://www.cs.rice.edu/~vardi/>
- [2] **Reference** Prof. Dr. Massimo Benerecetti
 Institute Università degli Studi di Napoli Federico II
 Email bene@na.infn.it
 Homepage <http://people.na.infn.it/~bene/>
- [3] **Reference** Prof. Dr. Michael Benedikt
 Institute University of Oxford
 Email michael.benedikt@cs.ox.ac.uk
 Homepage <http://www.cs.ox.ac.uk/michael.benedikt/>

Scientific Communications

Invited talks

- [1] **Title** Solving Parity Games via Priority Promotion
 Date February 1st, 2017
 Location Institute of Science and Technology Austria (IST Austria)
- [2] **Title** Logics in Computer Science
 Date September 20th, 2012
 Event 13th Italian Conference on Theoretical Computer Science (ICTCS 2012), Varese, Italy, September 19-21, 2012

Seminar talks

- [1] **Title** Solving Parity Games via Priority Promotion
 Date May 25th, 2016
 Location University of Oxford, Department of Computer Science, Oxford, UK

- [2] **Title** Strategy Logic
 Date November 23rd, 2012
Location Università degli Studi di Roma “La Sapienza”, Department of Computer, Control, and Management Engineering, Rome, Italy
- [3] **Title** On the Satisfiability of Alternating-Time Temporal Logics
 Dates October 3rd, 10th, 17th - December 9th, 2008
Location Rice University, Department of Computer Science, Houston, Texas, USA

Conference talks

- [1] **Title** Solving Parity Games via Priority Promotion
 Date July 23rd, 2016
Event 28th International Conference on Computer Aided Verification, Toronto, Canada, July 17-23, 2016
- [2] **Title** Binding Forms in First-Order Logic
 Date September 10th, 2015
Event 24th EACSL Annual Conference on Computer Science Logic, Berlin, Germany, September 7-10, 2015
- [3] **Title** On the Remarkable Features of Binding Forms
 Date September 5th, 2014
Event 2nd Highlights of Logic, Games, and Automata (Highlights 2014), Paris, France, September 2-5, 2014
- [4] **Title** Beyond One-Goal Strategy Logic
 Date September 5th, 2014
Event 2nd Highlights of Logic, Games, and Automata (Highlights 2014), Paris, France, September 2-5, 2014
- [5] **Title** Substructure Temporal Logic
 Date June 27th, 2013
Event 28th Annual ACM/IEEE Symposium on Logic in Computer Science (LICS 2013), New Orleans, Louisiana, USA, June 25-28, 2013
- [6] **Title** On the Boundary of Behavioral Strategies
 Date June 26th, 2013
Event 28th Annual ACM/IEEE Symposium on Logic in Computer Science (LICS 2013), New Orleans, Louisiana, USA, June 25-28, 2013
- [7] **Title** Strategy Logic
 Date September 9th, 2012
Event 5th Workshop of the ESF Networking Programme on Games for Design and Verification (GAMES 2012), Naples, Italy, September 7-12, 2012
- [8] **Title** What Makes ATL* Decidable? A Decidable Fragment of Strategy Logic
 Date September 5th, 2012
Event 23rd International Conference on Concurrency Theory (CONCUR 2012), Newcastle upon Tyne, England, UK, September 3-8, 2012
- [9] **Title** The Strategy Logic Saga
 Date September 3th, 2012
Event 4th Workshop on Games for Design, Verification, and Synthesis (GASICS 2012), Newcastle upon Tyne, England, UK, September 3, 2012
- [10] **Title** Reasoning About Strategies

- Date** December 15th, 2010
Event 30th IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS 2010), Chennai, India, December 15-18, 2010
- [11] **Title** Relentful Strategic Reasoning in Alternating-Time Temporal Logic
Date September 21st, 2010
Event 3rd Workshop of the ESF Networking Programme on Games for Design and Verification (GAMES 2010), Oxford, England, UK, September 20-23, 2010
- [12] **Title** Balance Games on Colored Graphs
Date September 14th, 2009
Event 2nd Workshop of the ESF Networking Programme on Games for Design and Verification (GAMES 2009), Udine, Italy, September 14-17, 2009
- [13] **Title** Graded Computation Tree Logic
Date August 14th, 2009
Event 24th Annual IEEE Symposium on Logic in Computer Science (LICS 2009), Los Angeles, California, USA, August 11-14, 2009
- [14] **Title** Branching-Time Temporal Logics with Minimal Model Quantifiers
Date July 1st, 2009
Event 13th International Conference on Developments in Language Theory (DLT 2009), Stuttgart, Germany, June 30 - July 3, 2009

Publications

Books

- [1] F. Mogavero. *Logics in Computer Science (A Study on Extensions of Temporal and Strategic Logics)*, volume 3 of *Atlantis Studies in Computing*. Atlantis Press, 2013. doi:10.2991/978-94-91216-95-4, ISSN:2212-8557, ISBN:978-94-91216-94-7.

Journal editorships

- [1] F. Mogavero, A. Murano, and M.Y. Vardi, editors. *Special Issue: 2nd International Workshop on Strategic Reasoning (SR'14)*, volume ? of *Information and Computation*. Elsevier, 2016. In press. doi:10.1016/j.ic.2016.10.005, ISSN:0890-5401.
- [2] F. Mogavero, A. Murano, and M.Y. Vardi, editors. *Special Issue: 1st International Workshop on Strategic Reasoning (SR'13)*, volume 242 of *Information and Computation*. Elsevier, 2015. doi:10.1016/j.ic.2015.03.008, ISSN:0890-5401.

Conference editorships

- [1] F. Mogavero, A. Murano, and M.Y. Vardi, editors. *Proceedings 2nd International Workshop on Strategic Reasoning (SR'14), Grenoble, France, April 5-6, 2014.*, EPTCS 146, 2014. doi:10.4204/EPTCS.146, ISSN:2075-2180.
- [2] F. Mogavero, A. Murano, and M.Y. Vardi, editors. *Proceedings 1st International Workshop on Strategic Reasoning (SR'13), Rome, Italy, March 16-17, 2013.*, EPTCS 112, 2013. doi:10.4204/EPTCS.112, ISSN:2075-2180.

Journals

- [1] V. Malvone, F. Mogavero, A. Murano, and L. Sorrentino. Reasoning about Graded Strategy Quantifiers. *Information and Computation*. To be published.
- [2] P. Čermák, A. Lomuscio, F. Mogavero, and A. Murano. Practical Verification of Multi-Agent Systems against SLK Specifications. *Information and Computation*. To be published.
- [3] F. Mogavero, A. Murano, G. Perelli, and M.Y. Vardi. Reasoning About Strategies: On the Satisfiability Problem. *Logical Methods in Computer Science*, 13(1:9):1-37, 2017. First published online: December 2016. doi:10.23638/LMCS-13(1:9)2017, ISSN:1860-5974.

- [4] F. Mogavero, A. Murano, and M.Y. Vardi. Relentful Strategic Reasoning in Alternating-Time Temporal Logic. *Journal of Logic and Computation*, 26(5):1663–1695, 2016. First published online: September 2014. doi:10.1093/logcom/exu052, ISSN:1465–363X.
- [5] M. Benerecetti, F. Mogavero, and A. Murano. Reasoning About Substructures and Games. *Transactions on Computational Logic*, 16(3):25:1–46, 2015. doi:10.1145/2757286, ISSN:1529–3785.
- [6] F. Mogavero, A. Murano, and L. Sorrentino. On Promptness in Parity Games. *Fundamenta Informaticae*, 139:1–29, 2015. doi:10.3233/FI-2015-1235, ISSN:0169–2968.
- [7] F. Mogavero, A. Murano, G. Perelli, and M.Y. Vardi. Reasoning About Strategies: On the Model-Checking Problem. *Transactions on Computational Logic*, 15(4):34:1–42, 2014. doi:10.1145/2631917, ISSN:1529–3785.
- [8] B. Aminof, F. Mogavero, and A. Murano. Synthesis of Hierarchical Systems. *Science of Computer Programming*, 83:56–79, 2014. First published online: July 2013. doi:10.1016/j.scico.2013.07.001, ISSN:0167–6423.
- [9] A. Bianco, F. Mogavero, and A. Murano. Graded Computation Tree Logic. *Transactions on Computational Logic*, 13(3):25:1–53, 2012. doi:10.1145/2287718.2287725, ISSN:1529–3785.
- [10] A. Bianco, M. Faella, F. Mogavero, and A. Murano. Quantitatively Fair Scheduling. *Theoretical Computer Science*, 413(1):160–175, 2012. First published online: June 2011. doi:10.1016/j.tcs.2011.06.029, ISSN:0304–3975.
- [11] A. Bianco, M. Faella, F. Mogavero, and A. Murano. Exploring the Boundary of Half-Positionality. *Annals of Mathematics and Artificial Intelligence*, 62(1-2):55–77, 2011. doi:10.1007/s10472-011-9250-1, ISSN:1012–2443.

Conferences

- [1] M. Benedikt, E.V. Kostylev, F. Mogavero, and E. Tsamoura. Reformulating Queries: Theory and Practice. In *26th International Joint Conference on Artificial Intelligence (IJCAI’17), August 19-25, 2017, Melbourne, Australia*, pages ?–?. AAAI Press/International Joint Conference on Artificial Intelligence, 2017. doi:?, ISSN:?, ISBN:?
- [2] S. Bova and F. Mogavero. Herbrand Property, Finite Quasi-Herbrand Models, and a Chandra-Merlin Theorem for Quantified Conjunctive Queries. In *32nd International Symposium on Logic in Computer Science (LICS’17), June 20-23, 2017, Reykjavik, Iceland*, pages ?–?. Association for Computing Machinery/IEEE Computer Society, 2017. doi:?, ISSN:1043–6871, ISBN:?
- [3] M. Benerecetti, D. Dell’Erba, and F. Mogavero. Improving Priority Promotion for Parity Games. In *12th Haifa Verification Conference (HVC’16), November 14-17, 2016, Haifa, Israel*, volume 10028 of *LNCS*, pages 1–17. Springer, 2016. doi:10.1007/978-3-319-49052-6_8, ISSN:0302-9743, ISBN:978-3-319-49051-9.
- [4] M. Benerecetti, D. Dell’Erba, and F. Mogavero. A Delayed Promotion Policy for Parity Games. In *7th International Symposium on Games, Automata, Logics and Formal Verification (GANDALF’16), September 14-16, 2016, Catania, Italy*, volume 226 of *EPTCS*, pages 30–45, 2016. doi:10.4204/EPTCS.226.3, ISSN:2075–2180.
- [5] G. Fontaine, F. Mogavero, A. Murano, G. Perelli, and L. Sorrentino. Cycle Detection in Computation Tree Logic. In *7th International Symposium on Games, Automata, Logics and Formal Verification (GANDALF’16), September 14-16, 2016, Catania, Italy*, volume 226 of *EPTCS*, pages 164–177, 2016. doi:10.4204/EPTCS.226.12, ISSN:2075–2180.
- [6] M. Benerecetti, D. Dell’Erba, and F. Mogavero. Solving Parity Games via Priority Promotion. In *28th International Conference on Computer Aided Verification (CAV’16), July 17-23, 2016, Toronto, Ontario, Canada*, volume 9780 (Part II) of *LNCS*, pages 270–290. Springer, 2016. doi:10.1007/978-3-319-41540-6_15, ISSN:0302-9743, ISBN:978-3-319-41540-6.
- [7] V. Malvone, F. Mogavero, A. Murano, and L. Sorrentino. On the Counting of Strategies. In *22nd International Symposium on Temporal Representation and Reasoning (TIME’15)*,

September 23-25, 2015, Kassel, Germany, pages 170–179. IEEE Computer Society, 2015. doi:10.1109/TIME.2015.19, ISSN:1530-1311.

- [8] F. Mogavero and G. Perelli. Binding Forms in First-Order Logic. In *24th International Conference on Computer Science Logic (CSL'15), September 7-10, 2015, Berlin, Germany*, volume 41 of *LIPICs*, pages 648–665. Leibniz-Zentrum fuer Informatik, 2015. doi:10.4230/LIPICs.CSL.2015.648, ISSN:1868-8969, ISBN:978-3-939897-90-3.
- [9] F. Mogavero, A. Murano, and L. Sauro. A Behavioral Hierarchy of Strategy Logic. In *15th International Workshop on Computational Logic in Multi-Agent Systems (CLIMA'14), August 18-19, 2014, Prague, Czech Republic*, volume 8624 of *LNCS*, pages 148–165. Springer, 2014. doi:10.1007/978-3-319-09764-0_10, ISSN:0302-9743, ISBN:978-3-319-09763-3.
- [10] P. Čermák, A. Lomuscio, F. Mogavero, and A. Murano. MCMAS-SLK: A Model Checker for the Verification of Strategy Logic Specifications. In *26th International Conference on Computer Aided Verification (CAV'14), July 18-22, 2014, Vienna, Austria*, volume 8559 of *LNCS*, pages 524–531. Springer, 2014. doi:10.1007/978-3-319-08867-9_34, ISSN:0302-9743, ISBN:978-3-319-08866-2.
- [11] F. Mogavero, A. Murano, and L. Sauro. Strategy Games: A Renewed Framework. In *13th International Conference on Autonomous Agents and MultiAgent Systems (AAMAS'14), May 5-9, 2014, Paris, France*, pages 869–876. International Foundation for Autonomous Agents and Multiagent Systems, 2014. ISBN:978-1-4503-2738-1.
- [12] F. Mogavero, A. Murano, and L. Sorrentino. On Promptness in Parity Games. In *19th International Conference on Logic for Programming Artificial Intelligence and Reasoning (LPAR'13), December 14-19, 2013, Stellenbosch, South Africa*, volume 8312 of *LNCS*, pages 601–618. Springer, 2013. doi:10.1007/978-3-642-45221-5_40, ISSN:0302-9743, ISBN:978-3-642-45220-8.
- [13] M. Benerecetti, F. Mogavero, and A. Murano. Substructure Temporal Logic. In *28th International Symposium on Logic in Computer Science (LICS'13), June 25-28, 2013, New Orleans, Louisiana, USA*, pages 368–377. IEEE Computer Society, 2013. doi:10.1109/LICS.2013.43, ISSN:1043-6871, ISBN:978-1-4799-0413-6.
- [14] F. Mogavero, A. Murano, and L. Sauro. On the Boundary of Behavioral Strategies. In *28th International Symposium on Logic in Computer Science (LICS'13), June 25-28, 2013, New Orleans, Louisiana, USA*, pages 263–272. IEEE Computer Society, 2013. doi:10.1109/LICS.2013.32, ISSN:1043-6871, ISBN:978-1-4799-0413-6.
- [15] F. Mogavero, A. Murano, G. Perelli, and M.Y. Vardi. What Makes ATL* Decidable? A Decidable Fragment of Strategy Logic. In *23rd International Conference on Concurrency Theory (CONCUR'12), September 3-8, 2012, Newcastle upon Tyne, England, UK*, volume 7454 of *LNCS*, pages 193–208. Springer, 2012. doi:10.1007/978-3-642-32940-1_15, ISSN:0302-9743, ISBN:978-3-642-32939-5.
- [16] B. Aminof, F. Mogavero, and A. Murano. Synthesis of Hierarchical Systems. In *8th International Symposium on Formal Aspects of Component Software (FACS'11), September 14-16, 2011, Oslo, Norway*, volume 7253 of *LNCS*, pages 42–60. Springer, 2011. doi:10.1007/978-3-642-35743-5_4, ISSN:0302-9743, ISBN:978-3-642-35742-8.
- [17] F. Mogavero, A. Murano, and M.Y. Vardi. Reasoning About Strategies. In *30th International Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS'10), December 15-18, 2010, Chennai, India*, volume 8 of *LIPICs*, pages 133–144. Leibniz-Zentrum fuer Informatik, 2010. doi:10.4230/LIPICs.FSTTCS.2010.133, ISSN:1868-8969, ISBN:978-3-939897-23-1.
- [18] A. Bianco, F. Mogavero, and A. Murano. Graded Computation Tree Logic with Binary Coding. In *19th International Conference on Computer Science Logic (CSL'10), August 23-27, 2010, Brno, Czech Republic*, volume 6247 of *LNCS*, pages 125–139. Springer, 2010. doi:10.1007/978-3-642-15205-4_13, ISSN:0302-9743, ISBN:978-3-642-15204-7.
- [19] A. Bianco, M. Faella, F. Mogavero, and A. Murano. Exploring the Boundary of Half Positionality. In *11th International Workshop on Computational Logic in Multi-Agent*

Systems (CLIMA'10), August 16-17, 2010, Lisbon, Portugal, volume 6245 of *LNAI*, pages 171–185. Springer, 2010. doi:10.1007/978-3-642-14977-1_14, ISSN:0302-9743, ISBN:978-3-642-14976-4.

- [20] F. Mogavero, A. Murano, and M.Y. Vardi. Relentful Strategic Reasoning in Alternating-Time Temporal Logic. In *16th International Conference on Logic for Programming Artificial Intelligence and Reasoning (LPAR'10)*, April 25 - May 1, 2010, Dakar, Senegal, volume 6355 of *LNAI*, pages 371–386. Springer, 2010. doi:10.1007/978-3-642-17511-4_21, ISSN:0302-9743, ISBN:978-3-642-17510-7.
- [21] A. Bianco, M. Faella, F. Mogavero, and A. Murano. Quantitative Fairness Games. In *8th International Workshop on Quantitative Aspects of Programming Languages (QAPL'10)*, March 27-28, 2010, Paphos, Cyprus, volume 28 of *EPTCS*, pages 48–63, 2010. doi:10.4204/EPTCS.28.4, ISSN:2075-2180.
- [22] A. Bianco, M. Faella, F. Mogavero, and A. Murano. Balanced Paths in Colored Graphs. In *34th International Symposium on Mathematical Foundations of Computer Science (MFCS'09)*, August 24-28, 2009, Novy Smokovec, High Tatras, Slovakia, volume 5734 of *LNCS*, pages 149–161. Springer, 2009. doi:10.1007/978-3-642-03816-7_14, ISSN:0302-9743, ISBN:978-3-642-03815-0.
- [23] A. Bianco, F. Mogavero, and A. Murano. Graded Computation Tree Logic. In *24th International Symposium on Logic in Computer Science (LICS'09)*, August 11-14, 2009, Los Angeles, California, USA, pages 342–351. IEEE Computer Society, 2009. doi:10.1109/LICS.2009.28, ISSN:1043-6871, ISBN:978-0-7695-3746-7.
- [24] F. Mogavero and A. Murano. Branching-Time Temporal Logics with Minimal Model Quantifiers. In *13th International Conference on Developments in Language Theory (DLT'09)*, June 30 - July 3, 2009, Stuttgart, Germany, volume 5583 of *LNCS*, pages 396–409. Springer, 2009. doi:10.1007/978-3-642-02737-6_32, ISSN:0302-9743, ISBN:978-3-642-02736-9.
- [25] P.A. Bonatti and F. Mogavero. Comparing Rule-Based Policies. In *9th International Symposium on Policies for Distributed Systems and Networks (POLICY'08)*, June 2-4, 2008, Palisades, New York, USA, pages 11–18. IEEE Computer Society, 2008. doi:10.1109/POLICY.2008.16, ISBN:978-0-7695-3133-5.

Workshop notes

- [1] M. Benerecetti, D. Dell'Erba, and F. Mogavero. Solving Parity Games via Priority Promotion. 3rd Highlights of Logic, Games, and Automata (Highlights'15), September 15-18, 2015, Prague, Czech Republic.
- [2] V. Malvone, F. Mogavero, A. Murano, and L. Sorrentino. Reasoning about Graded Modalities in Strategy Logic. 3rd Highlights of Logic, Games, and Automata (Highlights'15), September 15-18, 2015, Prague, Czech Republic.
- [3] F. Mogavero and G. Perelli. On the Remarkable Features of Binding Forms. 2nd Highlights of Logic, Games, and Automata (Highlights'14), September 2-5, 2014, Paris, France.
- [4] F. Mogavero, A. Murano, and L. Sauro. Beyond One-Goal Strategy Logic. 2nd Highlights of Logic, Games, and Automata (Highlights'14), September 2-5, 2014, Paris, France.
- [5] F. Mogavero, A. Murano, and L. Sauro. On the Conjunctive and Disjunctive Fragments of Strategy Logic. 7th Workshop on Logical Aspects of Multi-Agent Systems (LAMAS'14), May 5, 2014, Paris, France.
- [6] F. Mogavero, A. Murano, and L. Sauro. On the Boundary of Behavioral Strategies. 1st Highlights of Logic, Games, and Automata (Highlights'13), September 18-21, 2013, Paris, France.
- [7] F. Mogavero, A. Murano, and L. Sorrentino. On Promptness in Parity Games. 1st Highlights of Logic, Games, and Automata (Highlights'13), September 18-21, 2013, Paris, France.
- [8] M. Benerecetti, F. Mogavero, and A. Murano. Substructure Temporal Logic. 5th Workshop of the ESF Networking Programme on Games for Design and Verification (GAMES'12), September 7-12, 2012, Naples, Italy.

- [9] F. Mogavero, A. Murano, G. Perelli, and M.Y. Vardi. Strategy Logic Fragments. 5th Workshop of the ESF Networking Programme on Games for Design and Verification (GAMES'12), September 7-12, 2012, Naples, Italy.
- [10] F. Mogavero, A. Murano, and M.Y. Vardi. Strategy Logic. 5th Workshop of the ESF Networking Programme on Games for Design and Verification (GAMES'12), September 7-12, 2012, Naples, Italy.
- [11] F. Mogavero, A. Murano, G. Perelli, L. Sauro, and M.Y. Vardi. The Strategy Logic Saga. 4th Workshop on Games for Design, Verification, and Synthesis (GASICS'12), September 3, 2012, Newcastle upon Tyne, England, U.K.
- [12] B. Aminof, F. Mogavero, and A. Murano. Synthesis of Hierarchical Systems from a Library. 4th Workshop of the ESF Networking Programme on Games for Design and Verification (GAMES'11), August 31 - September 3, 2011, Paris, France.
- [13] A. Bianco, F. Mogavero, and A. Murano. Graded Computation Tree Logic. 3rd Workshop of the ESF Networking Programme on Games for Design and Verification (GAMES'10), September 20-23, 2010, Oxford, England, U.K.
- [14] F. Mogavero, A. Murano, and M.Y. Vardi. Relentful Strategic Reasoning in Alternating-Time Temporal Logic. 3rd Workshop of the ESF Networking Programme on Games for Design and Verification (GAMES'10), September 20-23, 2010, Oxford, England, U.K.
- [15] A. Bianco, M. Faella, F. Mogavero, and A. Murano. Balance Games on Colored Graphs. 2nd Workshop of the ESF Networking Programme on Games for Design and Verification (GAMES'09), September 14-17, 2009, Udine, Italy.

Theses

- [1] F. Mogavero. Logics in Computer Science. PhD thesis, Università degli Studi di Napoli Federico II, Italy, January 2011.
- [2] F. Mogavero. Branching-Time Temporal Logics (Theoretical Issues and a Computer Science Application). Master's thesis, Università degli Studi di Napoli Federico II, Italy, October 2007.
- [3] F. Mogavero. Sui Metodi e gli Algoritmi di Fattorizzazione. Bachelor's thesis, Università degli Studi di Napoli Federico II, Italy, September 2005.

Technical reports

- [1] F. Mogavero and G. Perelli. On the Remarkable Features of Binding Forms. Technical Report 1404.1531, arXiv, April 2014.
- [2] P. Cermák, A. Lomuscio, F. Mogavero, and A. Murano. MCMAS-SLK: A Model Checker for the Verification of Strategy Logic Specifications. Technical Report 1402.2948, arXiv, February 2014.
- [3] F. Mogavero, A. Murano, G. Perelli, and M.Y. Vardi. A Decidable Fragment of Strategy Logic. Technical Report 1202.1309, arXiv, February 2012.
- [4] F. Mogavero, A. Murano, G. Perelli, and M.Y. Vardi. Reasoning About Strategies: On the Model-Checking Problem. Technical Report 1112.6275, arXiv, December 2011.
- [5] A. Bianco, F. Mogavero, and A. Murano. Graded Computation Tree Logic. Technical Report 21, Università degli Studi di Napoli Federico II, Italy, April 2008.
- [6] P.A. Bonatti and F. Mogavero. Formal Policy Analysis Techniques for Comparison and Validation. Technical Report I2-D14, Università degli Studi di Napoli Federico II, Italy, April 2008.