

Fabio Mogavero, Ph.D.

Assistant Professor

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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@unina.it

Current Positions and Qualifications

Date (since) December 29th, 2017
Qualification Assistant Professor
Field Theoretical Computer Science
Department Department of Electrical Engineering and Information Technologies
Institute Università degli Studi di Napoli Federico II
Address Via Claudio, 21, I-80125, Napoli, Italy

Dates (from - to) March 15th - September 30th, 2021
Qualification Scientific Collaborator
Field Computer Science Engineering
Institute CINI - Consorzio Interuniversitario Nazionale per l'Informatica
Address Via Ariosto, 25, I-00185, Rome, Italy

Dates (from - to) September 11th, 2019 - September 11th, 2028
Qualification National Scientific Habilitation to Associate Professorship (Italy)
Field Computer Science

Dates (from - to) September 6th, 2019 - September 6th, 2028
Qualification National Scientific Habilitation to Associate Professorship (Italy)
Field Mathematical Logic

Dates (from - to) December 5th, 2017 - December 5th, 2026
Qualification National Scientific Habilitation to Associate Professorship (Italy)
Field Computer Science Engineering

Research Interests

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

Former Positions

- Dates (from - to)** September 5th, 2017 - January 31st, 2019
Qualification Adjunct Professor
Field Mathematical Logic
Department Department of Computer Science
Institute Università degli Studi di Verona
- Dates (from - to)** July 1st, 2017 - December 28th, 2017
Qualification Postdoctoral Researcher
Field Theoretical Computer Science
Research program Formal Methods for Cyber-Physical Attack Identification in Internet of Things
Department Department of Computer Science
Institute Università degli Studi di Verona
Advisor Prof. Dr. Massimo Merro
- Dates (from - to)** July 1st, 2015 - June 30th, 2017
Qualification Research Assistant
Field Theoretical Computer Science
Research program Generating Plans From Proofs
Project “Proof-Driven Querying”
Department Department of Computer Science
Institute University of Oxford
Advisor Prof. Dr. Michael Benedikt
- 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 31st, 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

Educational Experiences

Typology Winter School
Course GAMES 2013
Dates (from - to) February 4-8, 2013
Location Champéry, Switzerland

Typology Summer School
Course GAMES 2009
Dates (from - to) May 31 - June 6, 2009
Location Bertinoro, Italy

Typology Summer School
Course ESSLLI 2008
Dates (from - to) August 3-18, 2009
Location Hamburg, Germany

Languages

Mother tongue Italian
Foreign language English (fluent)

Awards

[1] **Award** Best Italian PhD Theses in Theoretical Computer Science, 2011-2012
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 Research Projects 2020 (€3K)
 Role Principal investigator
 Topic Strategic Reasoning and Automatic Synthesis of Multi-Agent Systems
 Institute GNCS - INdAM
 Dates (from - to) February 12, 2020

- [2] **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** PERFORMINGRAIL (PERformance-based Formal modelling and Optimal tRaffic Management for movING-block RAILway signalling)
 Typology International project (H2020 - EU)
 Role Researcher - Task Leader T2.3 (Specifications for Safe and Reliable Moving-Block Signalling)
 Dates (from - to) December 2020 - June 2023

- [2] **Project** Strategic Reasoning and Automatic Synthesis of Multi-Agent Systems
 Typology Italian national project (GNCS)
 Role Principal investigator
 Dates 2020

- [3] **Project** Formal Methods for Combined Verification Techniques
 Typology Italian national project (GNCS)
 Role Researcher
 Dates 2019

- [4] **Project** Formal Methods for the Verification and Synthesis of Discrete and Hybrid Systems
 Typology Italian national project (GNCS)
 Role Researcher

Dates 2018

- [5] **Project** Proof-Driven Querying
 Typology U.K. national project (EPSRC)
 Role Researcher
Dates (from - to) July 2015 - June 2017
- [6] **Project** Automata, Games, and Temporal Logics for the Verification and Synthesis of Controller for Safety-Critical Systems
 Typology Italian national project (GNCS)
 Role Researcher
 Dates 2014
- [7] **Project** Extended Game Logics
 Typology Italian national project (GNCS)
 Role Researcher
 Dates 2013
- [8] **Project** Embedded Systems in Critical Domains
 Typology Italian regional project (CeRICT)
 Role Researcher
Dates (from - to) 2012 - 2014
- [9] **Project** Hierarchical Games and their Applications in Reasoning about Reactive Systems
 Typology International project (Vigevani Research Project Prize)
 Role Researcher
Dates (from - to) 2010 - 2011
- [10] **Project** Logics, Automata, and Games for the Formal Verification of Complex Systems
 Typology Italian national project (GNCS)
 Role Researcher
 Dates 2010
- [11] **Project** Network of Excellence “REVERSE” (Reasoning on the Web)
 Typology International project (FP6 - EU)
 Role Researcher
Dates (from - to) November 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: IJCAI (SPC), ICTCS, OVERLAY
Conference Reviewer: CSL

Year 2021

[2] **Activities** Program Committee Member: AAMAS, ASPAI, and IJCAI
Journal Reviewer: Journal of Ambient Intelligence and Humanized Computing (AIHC), Information Processing Letters (IPL), Transactions on Computational Logic (ToCL)
Conference Reviewer: CONCUR, CSL

Year 2020

[3] **Activities** Project Evaluator: DIBRIS SEED Grant - Università degli Studi di Genova
Program Committee Member: AAMAS, ASPAI, FMBC, and IJCAI
Journal Reviewer: Logical Methods in Computer Science (LMCS), Artificial Intelligence (AI)
Conference Reviewer: AAI, LICS, CILC

Year 2019

[4] **Activities** Journal Reviewer: Journal of Symbolic Logic (JSL) and Theory of Computing Systems (TOCS)
Conference Reviewer: RuleML+RR, STACS, and TACAS

Year 2018

[5] **Activities** Program Committee Member: CILC
Journal Reviewer: Acta Informatica (ActInf), Information Processing Letters (IPL), and ACM Transactions on Computational Logic (ToCL)
Conference Reviewer: CILC, CSL, ICALP, and TACAS

Year 2017

[6] **Activities** Program Committee Member: AAMAS
Journal Reviewer: Information and Computation (I&C)
Conference Reviewer: AAMAS, FOSSACS, GANDALF, and LICS

Year 2016

[7] **Activities** Program Committee Member: SR
Journal Reviewer: Journal of Logic and Computation (JLC)
Conference Reviewer: AAI, FSTTCS, SAC, and SR

Year 2015

[8] **Activities** Journal Reviewer: ACM Transactions on Computational Logic (ToCL)
Conference Reviewer: AAMAS, CSL-LICS, and ECAI

Year 2014

[9] **Activities** Program Committee Member: SR
Journal Reviewer: Logical Methods in Computer Science (LMCS)
Conference Reviewer: FSTTCS, LICS, SR, and TACAS

- Year 2013
- [10] **Activities** Journal Reviewer: IEEE Transactions on Computers (TC)
Conference Reviewer: CAV and GANDALF
Year 2011
- [11] **Activity** Conference Reviewer: CSL, FORMATS, and LICS
Year 2010
- [12] **Activity** Conference Reviewer: IJCAI
Year 2009

Teaching Activities

- [1] **Typology** Teacher
Course Laboratory of Algorithms and Data Structures
Dates (from - to) March - July, 2021
Institute Università degli Studi di Napoli Federico II
- [2] **Typology** Teacher
Course Laboratory of Algorithms and Data Structures
Dates (from - to) March - July, 2020
Institute Università degli Studi di Napoli Federico II
- [3] **Typology** Teacher
Course Laboratory of Algorithms and Data Structures
Dates (from - to) March - July, 2019
Institute Università degli Studi di Napoli Federico II
- [4] **Typology** Teaching Assistant
Course System Verification
Dates (from - to) March - July, 2018
Institute Università degli Studi di Napoli Federico II
- [5] **Typology** Teaching Assistant
Course Laboratory of Algorithms and Data Structures
Dates (from - to) March - July, 2018
Institute Università degli Studi di Napoli Federico II
- [6] **Typology** Teacher
Course Logic
Dates (from - to) October 2017 - January, 2018
Institute Università degli Studi di Verona
- [7] **Typology** Tutor & Teaching Assistant
Course Computer Aided Formal Verification
Dates (from - to) October - December, 2016
Institute University of Oxford
- [8] **Typology** Tutor & Teaching Assistant
Course Computer Aided Formal Verification

- Dates (from - to)** October - December, 2015
Institute University of Oxford
- [9] **Typology** Teacher
Course Strategic Reasoning (ESSLLI 2013 Summer School)
Dates (from - to) August 5-9, 2013
Institute Heinrich Heine University of Düsseldorf
- [10] **Typology** Teaching Assistant
Course Computability and Complexity
Dates (from - to) March - July, 2012
Institute Università degli Studi di Napoli Federico II
- [11] **Typology** Tutor & Teaching Assistant
Course Programming I (Lifelong Learning)
Dates (from - to) July - October, 2011
Institute Università degli Studi di Napoli Federico II
- [12] **Typology** Teaching Assistant
Course Computability and Complexity
Dates (from - to) March - July, 2011
Institute Università degli Studi di Napoli Federico II
- [13] **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
Dates (from - to) November 2016 - October 2019
Institute Università degli Studi di Napoli Federico II, Napoli, Italy
Final mark Excellent
Thesis Solving Infinite Games on Graphs via Quasi Dominions
Note co-advised with Prof. Dr. Massimo Benerecetti

Master's degree

- [1] **Student** Dylan Bellier
Dates (from - to) January - June, 2020
Institute École Normale Supérieure de Rennes (ENS Rennes)
Thesis Extension of QPTL Semantics for Strategies with Specified Dependencies
Note co-advised with Prof. Dr. Sophie Pinchinat and Prof. Dr. François Schwarzentruber
- [2] **Student** Luigi Libero Lucio Starace
Dates (from - to) July - December, 2018
Institute Università degli Studi di Napoli Federico II, Napoli, Italy
Final mark Cum laude (110/110 with honor)
Thesis Model-Based Testing and Model Checking for Safety-Critical Hierarchical Systems

Note co-advised with Prof. Dr. Massimo Benerecetti and Prof. Dr. Adriano Peron

- [3] **Student** Orlando Aprea
Dates (from - to) January - December, 2018
Institute Università degli Studi di Napoli Federico II, Napoli, Italy
Final mark Cum laude (110/110 with honor)
Thesis Algoritmi Simbolici per la Generazione e Risoluzione di Giochi di Parità
Note co-advised with Prof. Dr. Massimo Benerecetti and Prof. Dr. Marco Faella
- [4] **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
- [5] **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

Internships

- [1] **Student** Dylan Bellier
Dates (from - to) May 20 - July 19, 2019
Institute École Normale Supérieure de Rennes (ENS Rennes)

Scientific Communications

Invited talks

- [1] **Title** Solving Infinite Games on Graphs via Quasi-Dominions
Date January 22nd, 2020
Location Università degli Studi di Udine, Department of Mathematics, Computer Science, and Physics, Udine, Italy
- [2] **Title** Satisfiability in Strategy Logic can be Easier than Model Checking
Date December 19th, 2018
Event Dynamics of MultiAgent Systems (DynaMAS 2018), Leiden, Netherlands, December 17-21, 2018
- [3] **Title** Solving Parity Games via Priority Promotion
Date February 1st, 2017
Location Institute of Science and Technology Austria (IST Austria)
- [4] **Title** Strategy Logic
Date November 23rd, 2012
Location Università degli Studi di Roma "La Sapienza", Department of Computer, Control, and Management Engineering, Rome, Italy
- [5] **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** Herbrand Property, Finite Quasi-Herbrand Models, and a Chandra-Merlin Theorem for Quantified Conjunctive Queries

Date October 5th, 2017

Location Università degli Studi di Verona, Department of Computer Science, Verona, Italy

[2] **Title** Solving Parity Games via Priority Promotion

Date May 25th, 2016

Location University of Oxford, Department of Computer Science, Oxford, UK

[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** On the Decidability of Linear Bounded Periodic Cyber-Physical Systems

Date April 16th, 2019

Event 22nd ACM International Conference on Hybrid Systems: Computation and Control (HSCC 2019), Montreal, Canada, April 16-18, 2019

[2] **Title** Herbrand Property, Finite Quasi-Herbrand Models, and a Chandra-Merlin Theorem for Quantified Conjunctive Queries

Date September 15th, 2017

Event 5th Highlights of Logic, Games, and Automata (Highlights 2017), London, England, UK, September 12-15, 2017

[3] **Title** Solving Parity Games via Priority Promotion

Date July 23rd, 2016

Event 28th International Conference on Computer Aided Verification (CAV 2016), Toronto, Canada, July 17-23, 2016

[4] **Title** Binding Forms in First-Order Logic

Date September 10th, 2015

Event 24th EACSL Annual Conference on Computer Science Logic (CSL 2015), Berlin, Germany, September 7-10, 2015

[5] **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

[6] **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

[7] **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

[8] **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
- [9] **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
- [10] **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
- [11] **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
- [12] **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
- [13] **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
- [14] **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
- [15] **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
- [16] **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 254 of *Information and Computation*. Elsevier, 2016. 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] M. Benerecetti, D. Dell'Erba, and F. Mogavero. Robust Worst Cases for Parity Games Algorithms. *Information and Computation*, 272:1–18, 2019. doi:10.1016/j.ic.2019.104501, ISSN:0890-5401.
- [2] M. Benerecetti, D. Dell'Erba, and F. Mogavero. A Delayed Promotion Policy for Parity Games. *Information and Computation*, 262(2):265–279, 2018. doi:10.1016/j.ic.2018.09.005, ISSN:0890-5401.
- [3] G. Fontaine, F. Mogavero, A. Murano, G. Perelli, and L. Sorrentino. Cycle Detection in Computation Tree Logic. *Information and Computation*, 262(2):221–240, 2018. doi:10.1016/j.ic.2018.09.007, ISSN:0890-5401.
- [4] M. Benerecetti, D. Dell'Erba, and F. Mogavero. Solving Parity Games via Priority Promotion. *Formal Methods in System Design*, 52(2):193–226, 2018. doi:10.1007/s10703-018-0315-1, ISSN:0925-9856.
- [5] P. Čermák, A. Lomuscio, F. Mogavero, and A. Murano. Practical Verification of Multi-Agent Systems against SLK Specifications. *Information and Computation*, 261(3):588–614, 2018. First published online: September 2017. doi:10.1016/j.ic.2017.09.011, ISSN:0890-5401.
- [6] V. Malvone, F. Mogavero, A. Murano, and L. Sorrentino. Reasoning about Graded Strategy Quantifiers. *Information and Computation*, 259(3):390–411, 2018. First published online: August 2017. doi:10.1016/j.ic.2017.08.010, ISSN:0890-5401.
- [7] 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.
- [8] 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.
- [9] 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.
- [10] 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.
- [11] 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.
- [12] 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.
- [13] 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.

- [14] 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.
- [15] 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] P. Pareti, G. Konstantinidis, F. Mogavero, and T.J. Norman. SHACL Satisfiability and Containment. In *19th International Semantic Web Conference (ISWC'20), November 2-6, 2020, Athens, Greece (Virtual)*, volume 12506 of *LNCS*, pages 1–20. Springer, 2020. doi:10.1007/978-3-030-62419-4_27, ISSN:0302-9743, ISBN:?
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