

Antonio Di Stasio

Personal Information

Name & Surname Antonio Di Stasio

Research Interests

Topics Game Theory, Parity Games, Formal Aspects of System Specification, Verification, Synthesis, and Automated Planning.

Experiences

Date (from - to) July 1, 2020 - present

Qualification Post-doctoral researcher

Project WhiteMech

Institute "La Sapienza" University of Rome

Advisor Prof. Dr. Giuseppe De Giacomo

Date (from - to) June 1, 2019 - May 31, 2020

Qualification Post-doctoral researcher

Project Metodi e tecniche di supporto alla creatività digitale

Institute "La Sapienza" University of Rome

Advisor Prof. Dr. Massimo Mecella

Date (from - to) Aug 3, 2015 - Oct 31, 2015

Qualification Research Scholarship

Project Formal methods based on game theory

Institute University of Naples "Federico II", Italy

Supervisor Prof. Aniello Murano

Former Positions

Date (from - to) November 5, 2017 - May 21, 2018

Qualification Visiting Scholar

Department Department of Computer Science

Institute Rice University, Houston, Texas, USA

Supervisor Prof. Moshe Y. Vardi

Education Degrees

Date (from - to)	November 2015 - February 2019
Qualification	Doctorate (Ph.D.)
Field	Computer Science
Institute	University of Naples "Federico II", Italy
Supervisor	Prof. Aniello Murano
Date (from - to)	2011 - 2015
Degree	Master Degree in Computer Science (Class LM-18)
Institute	University of Naples "Federico II", Italy
Obtained on	March 16th, 2015
Final mark	110/110 cum laude
Thesis	An Accelerated Algorithm for log-color parity games
Supervisor	Prof. Aniello Murano
Date (from - to)	2006 - 2011
Degree	Bachelor Degree in Computer Science (Class 26)
Institute	University of Naples "Federico II", Italy
Obtained on	March 23rd, 2011
Final mark	106/110
Thesis	Studio, elaborazione ed implementazione di un algoritmo di ranking per giochi di parità
Supervisor	Prof. Aniello Murano
	High school diploma
Date (from - to)	2001 - 2006
Degree	Industrial Technical Institute Diploma
Institute	Istituto Tecnico Industriale A.Righi VIII - Naples, Italy
Obtained on	July 4th, 2006
Final mark	82/100

Technology Skills

Languages:	C/C++, Java, OCaml
Markup Languages:	XML, HTML, Latex
Operative Systems:	Windows, Linux, Mac OS

Languages

Mother tongue	Italian
Foreign language	English

Publications

- [1] Antonio Di Stasio, Paolo Domenico Lambiase, Vadim Malvone, and Aniello Murano. Dynamic Escape Game (Demonstration). In *AAMAS 2018*, pages 1806–1808, 2018.
- [2] Antonio Di Stasio, Aniello Murano, and Moshe Y. Vardi. Solving Parity Games: Explicit vs Symbolic. In *CIAA 2018*, pages 159–172, 2018.
- [3] Giuseppe De Giacomo, Aniello Murano, Sasha Rubin, and Antonio Di Stasio. Imperfect-Information Games and Generalized Planning. In *IJCAI 2016*, pages 1037–1043, 2016.
- [4] Antonio Di Stasio, Aniello Murano, Giuseppe Perelli, and Moshe Y. Vardi. Solving Parity Games Using an Automata-Based Algorithm. In *CIAA 2016*, pages 64–76, 2016.
- [5] Antonio Di Stasio, Aniello Murano, Vincenzo Prignano, and Loredana Sorrentino. Solving Parity Games in Scala. In *FACS 2014*, pages 145–161, 2014.
- [6] Giuseppe De Giacomo, Antonio Di Stasio, Francesco Fuggitti, and Antonio Di Stasio. Pure-past linear temporal and dynamic logic on finite traces. In *IJCAI 2020*, pages 4959–4965.
- [7] Giuseppe De Giacomo, Antonio Di Stasio, Moshe Y. Vardi, and Shufang Zhu. Two-stage technique for ltlf synthesis under LTL assumptions. In *KR 2020*, pages 304–314, 2020.
- [8] Giuseppe De Giacomo, Antonio Di Stasio, Giuseppe Perelli, and Shufang Zhu. Synthesis with mandatory stop actions. In *KR 2021*, pages 237–246, 2021.
- [9] Giuseppe De Giacomo, Antonio Di Stasio, Lucas M. Tabajara, Moshe Y. Vardi, and Shufang Zhu. Finite-trace and generalized-reactivity specifications in temporal synthesis. In *IJCAI 2021*, pages 1852–1858, 2021.
- [10] Antonio Di Stasio. LTLf synthesis under environment specifications. In *ICTCS 2022*. to appear.
- [11] Giuseppe De Giacomo, Suguman Bansal Antonio Di Stasio, Yong Li, Moshe Y. Vardi, and Shufang Zhu. Compositional Safety LTL Synthesis. In *VSTTE 2022*. to appear.

Scientific Communications

Conference talks

Title LTLf Synthesis Under Environment Specifications
Date September 7, 2022
Event ICTCS 2022, Rome

Title LTLf Synthesis Under Environment Specifications (Invited Talk)
Date August 31, 2022
Event VardiFest 2022, Haifa, Israel

Title Two-Stage Technique for LTLf Synthesis Under LTL Assumptions
Date September 15, 2020
Event Highlights 2021, Online

Title Two-Stage Technique for LTLf Synthesis Under LTL Assumptions
Date September 18, 2020
Event KR 2020, Online

Title Solving Parity Games: Explicit vs Symbolic
Date July 8, 2018
Event 6th International Workshop on Strategic Reasoning (SR 2018), Oxford, UK

Title Solving Parity Games Using An Automata-Based Algorithm
Date July 22, 2016
Event 21st International Conference on Implementation and Application of Automata (CIAA 2016), Seoul, South Korea

Title Solving parity games in scala
Date October 10, 2014
Event Formal Aspects of Component Software (FACS 2014), Bertinoro, Italy

Event Organization

Organizing Committee member ICTCS 2017, CILC 2017

Community Services

Activities Program Committee Member: ECAI 2020, AAAI 2021, IJCAI Survery Track 2021, AAMAS 2021, AAMAS 2022, IJCAI Survery Track 2021, IJCAI Survery Track 2022
 Subreviewer: MFCS 2017, ICTCS 2017, AAMAS 2018, IJCAI 2018
 Journal Reviewer: Fundamenta Informaticae

Teaching Activities

Course Game-Theoretic Approach to Planning and Synthesis (Phd Course)
Date (from - to) 4-8 July 2022
Institute Sapienza University of Rome

Teaching Assistant

Tutor for the course Programming - Lab.
Date (from - to) September 2018 - December 2018
Institute University of Naples "Federico II", Italy
Principal Instructor Prof. Aniello Murano

Tutor for the course Algorithms and data structures - Lab.
Date (from - to) March 2017 - October 2018
Institute University of Naples "Federico II", Italy
Principal Instructor Prof. Aniello Murano

Tutor for the course Mathematics
Date (from - to) November 2016 - February 2017
Institute University of Naples "Federico II", Italy
Principal Instructor Prof. Livia D'Apuzzo

Tutor for the course Algorithms and data structures - Lab.
Date (from - to) March 2016 - February 2017
Institute University of Naples "Federico II", Italy
Principal Instructor Prof. Aniello Murano

References

Reference Prof. Aniello Murano
Institute University of Naples "Federico II", Italy
Email murano@na.infn.it

Reference Prof. Moshe Y. Vardi
Institute Rice University, Houston, TX, USA
Email vardi@cs.rice.edu

Reference Prof. Giuseppe De Giacomo
Institute University of Rome "La Sapienza", Italy
Email degiacomo@diag.uniroma1.it