CV-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

[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)	Novermber 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