

Curriculum Vitae

Fabio Patrizi

July 10, 2015

General Information

Full Name	Fabio Patrizi
Date of Birth	19/12/1978
Place of Birth	Rome, Italy
Marital Status	
Children	
Citizenship	
Permanent Address	
Mobile Phone Number	
E-mail	
Spoken Languages	Italian (mother tongue), English (Excellent), Spanish (Excellent)

Education

Type	Year	Institution	Notes (Degree, Experience,...)
PhD	2009	Sapienza University	-
PhD School "GAMES"	2009	European Science Foundation	-
Research Visit	2008	University of California, San Diego, Ca, USA	Jan - Jul 2008
PhD Summer School "ESSLLI"	2006	Malaga University (Spain)	-
Licensure in Engineering	2004	Ordine degli Ingegneri della Provincia di Roma	-
University Graduation	2003	Sapienza University	Final Mark: 107/110

Appointments

Academic Appointments

Start	End	Institution	Position
Oct 2014	Present	KRDB – Free University of Bozen-Bolzano	Research Fellow
Oct 2011	Sep 2014	DIAG – Sapienza University	Fixed-term Assistant Professor (RTD-A, art.1 comma 14 L. 230/05)
Aug 2011	Sep 2011	DIAG – Sapienza University	Research Associate
Sep 2010	Aug 2011	DoC – Imperial College, London, UK	Research Associate
Feb 2009	Sep 2010	DIAG – Sapienza University	Research Associate
Jan 2006	Oct 2006	DIAG – Sapienza University	Research Assistant
Apr 2005	Oct 2005	Udine University	Research Associate
Nov 2004	Mar 2005	DIAG – Sapienza University	Research Assistant
Feb 2004	Jul 2004	DIAG – Sapienza University	Research Assistant

Other Appointments

Start	End	Institution	Position
Jun 2007	Jul 2007	Toola Area S.r.l.	IT Consultant
Jul 2006	Jul 2006	Toola Area S.r.l.	Teacher of “Oracle Intermediate” at Sytel-Reply
Jan 2006	Mar 2006	Toola Area S.r.l.	Web Architecture and Web Services Consultant

Teaching Experience

Year	Institution	Lecture/Course
2014/2015	Sapienza University	Great Ideas in ICT (PhD course, Lecturer)
2013/2014	Sapienza University	Foundations of Programming (Course Leader)
2013/2014	Sapienza University	Great Ideas in ICT (PhD course, Lecturer)
2012/2013	Sapienza University	Foundations of Programming (Course Leader)
2011/2012	Sapienza University	Foundations of Programming (Lecturer)
2010/2011	Imperial College, London (UK)	Databases (Teaching Assistant) (Course Leader: Prof. P. Mc Brien)
2010/2011	Imperial College, London (UK)	Programming (Teaching Assistant) (Course Leader: Prof. A.J. Field)
2009/2010	Sapienza University	Software Design (Tutor) (Course Leader: Prof. G. De Giacomo)
2009/2010	Sapienza University	Formal Methods for Software and Services (Guest Lecturer) (Course Leader: Prof. G. De Giacomo)
2008/2009	Sapienza University	Software Design (Tutor) (Course Leader: Prof. G. De Giacomo)
2008/2009	Sapienza University	Formal Methods for Software and Services (Guest Lecturer) (Course Leader: Prof. G. De Giacomo)
2008/2009	Sapienza University	Elective in Software and Services (Guest Lecturer) (Course Leader: Prof. G. De Giacomo)
2007/2008	Sapienza University	Software Design I (Tutor) (Course Leader: Prof. G. De Giacomo)
2007/2008	Sapienza University	Seminars in Software Engineering (Guest Lecturer) (Course Leader: Prof. G. De Giacomo)
2006/2007	Sapienza University	Software Design I (Tutor) (Course Leader: Prof. M. Cadoli)
2006/2007	Sapienza University	Seminari di Ingegneria del Software (Guest Lecturer) (Course Leader: Prof. G. De Giacomo)
2005/2006	Sapienza University	Software Design I (Tutor) (Course Leader: Prof. M. Cadoli)
2005/2006	Sapienza University	Formal Methods (Guest Tutor) (Course Leader: Prof. M. Cadoli)

Society Memberships, Awards and Honors

Year	Title
2011	RMIT Melbourne (Vic, AU) Visiting Researcher's Award
2013	Best Paper Award at the 7th International Conference on Web Reasoning and Rule Systems (RR-2013): Diego Calvanese, Giuseppe De Giacomo, Marco Montali and Fabio Patrizi, <i>Verification and Synthesis in Description Logic Based Dynamic Systems</i> .

Funding Information

Year	Title	Program	Grant Value
2014	Verification and Synthesis from Components of Processes that Manipulate Data (PI)	Mobilità di Ricercatori e Ricercatrici – Provincia Autonoma di Bolzano - Alto Adige	~ 130.000€ (2 years)

Research Activity

The research activity of Fabio Patrizi concerns theoretical, methodological, and practical aspects in different areas of **Computer Science** and **Artificial Intelligence**. He has developed tools and techniques based on **Formal Methods** for the solution of problems that arise in the areas of **Knowledge Representation** and **Reasoning about Action**, non-standard forms of **Planning in Artificial Intelligence**, **Service-oriented Computing**, and **Business Processes**. All the results of his research have been published in top-level conferences in relevant areas. He collaborates with internationally renowned researchers. His research activity has been carried out in Rome (Italy), London (UK), Bolzano (Italy), and San Diego (CA, USA) during a 6-month visit as a PhD student. His main research accomplishments are summarized below, together with the respective publication venues (see publication list for a fully comprehensive list of his publications).

Keywords	Brief Description
Behavior Composition	(AAAI'07, KR'08, PhD Thesis (2009), ICAPS'09, AAAI'10, AIJ (2013), ICAPS'14) Fabio Patrizi has proposed, together with Giuseppe De Giacomo (Sapienza University of Rome, Italy) and Sebastian Sardina (RMIT, Melbourne, VIC, AU), a formal framework and a solution technique for the problem of <i>behavior composition</i> . The problem consists in coordinating a set of available reactive agents with the aim of realizing a desired high-level procedure that would not be realizable by any of the available agents alone. This line of work is based on a bridge between AI and Formal Verification&Synthesis techniques, where temporal logics are used as a mean to express the requirements on the coordination of the agents, while the coordination strategy is obtained by applying synthesis techniques. The achieved results have led to the implementation of an actual system for the composition of smart devices in an intelligent house, in the context of the EU-funded STREP project SM4All (Smart homes for All).
Planning Programs	(AAMAS'10, ICAPS'11, AIJ (under review)) Fabio Patrizi is one of the proposers of a new form of declarative agent programming paradigm, known as <i>planning programs</i> . These are goal networks which provide a high-level representation of the desired behavior of some agent, in terms of the goals the agent needs to achieve and maintain, while operating in a dynamic domain. In a first foundational work, in collaboration with Giuseppe De Giacomo and Sebastian Sardina, he has devised a sound and complete solution technique for the general problem, based on the use of Formal Synthesis techniques. In a further work, co-authored with Alfonso Gerevini and Alessandro Saetti (Brescia University, Italy) he has devised an efficient planning-based technique, specialized for deterministic domains. Such works led to the submission of a further work to the <i>Artificial Intelligence Journal (AIJ)</i> , currently under its second review round.
Verification of Multi-Agent Systems for Artifact-Centric Scenarios	(IJCAI'11, KR'12, JAIR (2013)) He collaborates with Alessio Lomuscio (Imperial College, London, UK) and Francesco Belardinelli (Universit d'Evry, France), on the problem of model checking multi-agent systems against epistemic first-order extensions of temporal specifications, in the context of artifact-centric scenarios (where business processes are represented in a modular way, in terms of process fragments and data structures). This research, carried out as part of the EU-funded STREP project ACSI (Artifact-centric Service Interoperation), has shown that, in systems with an infinite number of states having a relational structure, a <i>boundedness condition</i> on the number of elements is sufficient to guarantee decidability of the verification task, in the case of a branching-time, first-order logic, with unrestricted use of quantifiers. This intuition and the corresponding approach proved useful, and have been exploited, also in other areas such as Reasoning about Action.

Verification of Action Theories	(KR'12, IJCAI'13, ECAI'14, AAMAS'14, <i>Studia Logica</i> (2015), AIJ (under review)) In this line of work, a boundedness condition has been exploited for verification purposes in the context of Action Theories expressed in Situation Calculus. Together with Giuseppe De Giacomo and Yves L�esp�rance (York University, Toronto, CA), he has developed an abstraction technique for the verification of first-order mu-calculus specifications used to characterize the models of a given theory. The boundedness condition and related notions isolated in previous work proved particularly useful also in this context.
Progression of Action Theories	(IJCAI'13, KR'14, JELIA'14) Together with Stavros Vassos (Sapienza University), he has identified a class of practically-relevant progressable action theories, expressed in the Situation Calculus. This research was inspired by the boundedness condition isolated in previous work and has contributed to broadening the set of known progressable action theories, in addition to drawing a clear picture of their classification.
Synthesis of infinite plans	(KR'10, IJCAI'11, IJCAI'13): he has investigated the problem of automatically building infinite plans that satisfy specifications expressed in temporal logics, and devised corresponding solution techniques. He has contributed to devising two approaches to encode the problem as standard (classical or nondeterministic) planning, with the aim of making state-of-the-art solvers available for their solution. Together with Hector Geffner (Universitat Pompeu Fabra, Barcelona, Spain) and Nir Lipovetzky (University of Melbourne, Vic, AU), he has devised a translation scheme that allows to transform the search for an infinite plan satisfying an LTL property (in nondeterministic domains) into an instance of standard conditional planning. This work contributed to put forward planning as a viable alternative to solve problems, such as Formal Synthesis, arising in other areas than AI.
Service Composition	(IJFCS (2008), IEEE Data Eng. Bulletin (2008), ICWS'07, WS-FM'09, Web Services Foundations (2014)): he has worked on this line of research during his PhD, following the work previously initiated by his group, which led to the definition of the so-called Roman Model. In his PhD thesis, he has generalized previous results by proposing a solution technique based on the notion of simulation between transition systems. This improved the previous techniques in term of time complexity and robustness. This approach has laid the bases of the results achieved in the context of Behavior Composition
Data Abstraction Techniques for Verification and Synthesis	(ICDT'09, ICSOC'11, ICSOC'12, RR'13, IJCAI'15): he started working on this topic as a visiting scholar at UCSD, during his PhD, when he collaborated with Alin Deutch, Victor Vianu (UCSD, San Diego, CA, USA), and Rick Hull (IBM Watson Research Center, Hawthorne, NY, Usa) to a work on the verification of artifact-centric business processes. The resulting paper, published at ICDT 2009, is one of his most cited ones (172 citations, according to Google Scholar, July 2015). He has kept working on this topic in connection with many of the research lines mentioned above, such as Behavior Composition, Verification of MAS and Action theories, and Service Composition. This research is having a practical impact on the formal analysis, verification and synthesis in so called <i>Artifact-based Business Processes</i> . Recently, the abstraction approach has been applied also to dynamic systems whose state is described in terms of an ontology (expressed in Description Logic). The work describing this extension, co-authored with Giuseppe De Giacomo, Diego Calvanese and Marco Montali (Free University of Bozen-Bolzano) was awarded Best Paper at RR'13.
Constraint Satisfaction Problems	(ISMIS'06, ECAI'06, CPAIOR'06, Annals OR (2009), Constraints (2008)): in the beginning of his PhD, together with Marco Cadoli and Toni Mancini (Sapienza University), he has focussed on problems related to CSP, in particular on comparing different solution approaches based on the use of ASP engines, SAT, and commercial solvers, and investigated the possibility of decomposing a problem into smaller and easier ones, in order to obtain performance improvements.

Summary of Scientific Achievements

Product type	Number
International Journal Papers	7
International Conference Papers	31
International Workshop Papers	9
Edited Works	1
Contributions to Scientific Books	2
National Journal Papers	1
National Conference Papers	2

Impact Measures

According to Google Scholar, as of Jul 9, 2015, including all products from 2005.

Type	Value
Total Citations	768
Average Citations per Product	20.21
H-index	15
Normalized H-index*	3

* = (H-Index/academic seniority), with academic seniority defined as in the call (largest integer number of years contained in the period from date of PhD to expiration of call).

National Habilitation Requirements

According to Scopus, as of Jul 9, 2015, Fabio Patrizi's indicators meet 100% of the requirements (necessary conditions) to obtain the Scientific Habilitation as Associate Professor:

Indicator	Value	Required Value (01/B1)
Normalized # of Citations	19.09	9.15
Contemporary H-index*	6	5

*Computed according to the official ANVUR definition.

Research Projects

Fabio Patrizi is, or has been, involved in the following research projects:

Title	Role	Funding Agency
Verification and Synthesis from Components of Processes that Manipulate Data	Principal Investigator	Provincia Autonoma di Bolzano - Alto Adige
Artifact-centric service interoperation	Participant	EU Commission
SM4All (SMart homes for All)	Participant	EU Commission

Moreover, in 2002-2004, as an undergraduate student, he has been member of the robotic soccer team, led by Prof. Daniele Nardi, “SPQR-Legged” at DIAG - Sapienza Università di Roma. As a team member, he has participated in the following international competitions: RoboCup 2002 (Fukuoka, Giappone); RoboCup 2003 (Padova, Italia); RoboCup 2004 (Lisbona, Portogallo). Further, he has carried out research and software development activities, concerning, in particular, probabilistic planning and robotic vision.

Professional Service

Fabio Patrizi is regularly involved in the main events and activities organized by the scientific community, related to his research areas.

Conference and Workshop Organization

Event	Role
ICSOC 2013 (11th International Conference on Service Oriented Computing)	PhD Symposium co-chair
CILC’12 (9th Italian Convention on Computational Logic)	Organizing Committee Chair

PC Membership

Fabio Patrizi is regularly invited as a PC member in various editions of several top-level conferences: AAI, IJCAI, ICDT, AAMAS, ECAI, KR, ICAPS, BPM, IROS, ICSOC.

Journal Reviewing and Editorial Service

Fabio Patrizi has been involved as a reviewer in the following top-level international journals: JAIR, JODS, IJFCS, TKDE, JLC, TODS, TSC, TWEB, JINFCO.

He has served as a Guest Editor for the international journal “Computing”.

Paper Presentations

He has presented the results of his research at the following events:

Year	Event	Paper
2014	14th European Conference on Logics in Artificial Intelligence (JELIA'14)	Action Theories over Generalized Databases with Equality Constraints
2013	23rd International Joint Conference on Artificial Intelligence (IJCAI'13)	Fair LTL Synthesis for Non-Deterministic Systems using Strong Cyclic Planners
2012	10th International Conference on Service-oriented Computing (ICSOC'11)	Verification of GSM-based Artifact-Centric Systems Through Finite Abstraction
2011	22nd International Joint Conference on Artificial Intelligence (IJCAI'11)	Computing Infinite Plans for LTL Goals Using a Classical Planner
2010	12th International Conference on the Principles of Knowledge Representation and Reasoning (KR'10)	Generalized Planning with Loops under Strong Fairness Constraints
2009	6th International Workshop on Web Services and Formal Methods (WS-FM'09)	Automated Composition of Nondeterministic Stateful Services
2009	4th European Young Researchers Workshop on Service-oriented Computing (YRSOC'09)	An Introduction to Simulation-based Techniques for Automated Service Composition
2007	IEEE 2007 International Conference on Web Services (ICWS 2007)	Automatic Workflows Composition of Mobile Services
2006	3rd International Conference on Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems	On the separability of subproblems in Benders decompositions

Invited Talks

He has been invited to give the following talks at various national and international institutions:

Date	Inviting Institution	Title
May 2014	Free University of Bozen/Bolzano (Italy)	Action Theories over Generalized Databases with Equality Constraints
Dec 2011	Verification of Deployed Artifact Systems via Data Abstraction	RMIT University, Melbourne, Vic (AU)
Nov 2011	Free University of Bozen/Bolzano (Italy)	Verification of Deployed Artifact Systems via Data Abstraction
Feb 2010	University of Brescia (Italy)	Two-player Game Structures for Service Composition, Synthesis and Generalized Planning
Feb 2010	University of Brescia (Italy)	Automated Service Composition and Synthesis
Feb 2008	University of California, San Diego (CA, USA)	Automatic Composition of Services

Conference Tutorials

Fabio Patrizi has been selected as a tutorial lecturer at the 24th International Joint Conference on Artificial Intelligence (IJCAI'15), to be held in Jul 2015. Tutorial Title: *Automatic Synthesis & Composition of Agent Behaviors*.

Other Activities

From Jun 2015, Fabio Patrizi is co-responsible for the selection of the papers submitted to the Artificial Intelligence section of the well-known *Computing Research Repository* (*CORR*, <http://arxiv.org/corr/home>).

Selected Publications

The publications selected by the candidate for qualitative evaluation are those appearing in the list of publications below, marked with the symbol *.

Publications

International Journals

- [IJ7] Giuseppe De Giacomo, Yves Lespérance, Fabio Patrizi, Stavros Vassos. Progression and Verification of Situation Calculus Agents with Bounded Beliefs. *Studia Logica*, to appear (2015).
Impact Factor 2014: 0.342
- [IJ6] * Francesco Belardinelli, Alessio Lomuscio, Fabio Patrizi. Verification of Agent-Based Artifact Systems. *J. Artif. Intell. Res. (JAIR)*, 51: 333-376 (2014), 196: 106-142. Elsevier. 2014.
Impact Factor 2014: 0.904
- [IJ5] * Giuseppe De Giacomo, Fabio Patrizi, Sebastian Sardina. Automatic Behavior Composition Synthesis. *Artificial Intelligence (AIJ)*, 196: 106-142. Elsevier. 2013.
Impact Factor 2014: 3.371.
- [IJ4] Marco Cadoli e Fabio Patrizi. On the separability of subproblems in Benders decompositions. *Annals of Operations Research*, 171:27–43. Springer Netherlands. 2009.
Impact Factor 2014: 1.217.
- [IJ3] Daniela Berardi, Fahima Cheikh, Giuseppe De Giacomo, Fabio Patrizi. Automatic service composition via simulation. *International Journal of Foundations of Computer Science*, 19(2):429–451. World Scientific. 2008.
Impact Factor 2014: 0.459.
- [IJ2] Diego Calvanese, Giuseppe De Giacomo, Maurizio Lenzerini, Massimo Mecella, Fabio Patrizi. Automatic Service Composition and Synthesis: the Roman Model. *IEEE Data Engineering Bulletin*, 31(3):18–22. IEEE Computer Society. 2008.
Impact Factor 2014: n/a.
- [IJ1] * Toni Mancini, Davide Micaletto, Fabio Patrizi, Marco Cadoli. Evaluating ASP and commercial solvers on the CSPLib. *Constraints*, 13(4):407–436. Springer Netherlands. 2008.
Impact Factor 2014: 1.152.

International Conferences (For each entry, the corresponding ranking according to the GII-GRIN conference rating is reported – see <http://www.consortio-cini.it:8080/consultazioneclassificazioni/>.)

- [IC31] Diego Calvanese, Giuseppe De Giacomo, Marco Montali, Fabio Patrizi. Description Logic Based Dynamic Systems: Modeling, Verification, and Synthesis. In *Proceedings of the 24th International Joint Conference on Artificial Intelligence (IJCAI'15)*, to appear. 2015. GII-GRIN conference rating: A++.
- [IC30] Giuseppe De Giacomo, Valsamis Ntouskos, Fabio Patrizi, Stavros Vassos, Davide Aversa Service Composition in Virtual Environments Based on Videogame Engines In *Proceedings of the 8th IEEE International Conference on Service Oriented Computing & Applications (SOCA'15)*, to appear. 2015. GII-GRIN conference rating: W.

- [IC29] Fabio Patrizi, Stavros Vassos. Action Theories over Generalized Databases with Equality Constraints. In *Proceedings of the 14th European Conference on Logics in Artificial Intelligence (JELIA'14)*, pp. 472-485. Springer. 2014. GII-GRIN conference rating: B.
- [IC28] Giuseppe De Giacomo, Yves Lespérance, Fabio Patrizi, Stavros Vassos. LTL Verification of Online Executions with Sensing in Bounded Situation Calculus. In *Proceedings of 21st European Conference on Artificial Intelligence (ECAI'14)*, pp. 369-374. IOS Press. 2014. GII-GRIN conference rating: A.
- [IC27] Giuseppe De Giacomo, Fabio Patrizi, Sebastian Sardina. Building Virtual Behaviors from Partially Controllable Available Behaviors in Nondeterministic Environments. In *Proceedings of the 24th International Conference on Automated Planning and Scheduling (ICAPS'14)*, pp. 523,526. AAAI Press. 2014. GII-GRIN conference rating: A.
- [IC26] Fabio Patrizi, Stavros Vassos. Action Theories over Generalized Databases with Equality Constraints (Extended Abstract). In *Proceeding of the 14th International Conference on the Principles of Knowledge Representation and Reasoning (KR'14)*, (Electronic Proceedings). AAAI Press. 2014. GII-GRIN conference rating: A+.
- [IC25] * Giuseppe De Giacomo, Yves Lespérance, Fabio Patrizi, Stavros Vassos. Progression and Verification of Situation Calculus Agents with Bounded Beliefs. In *Proceedings of the 13th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2014)*, pp. 141–148. IFAA-MAS/ACM. 2014. GII-GRIN conference rating: A++.
- [IC24] * Fabio Patrizi, Nir Lipovetzky, Hector Geffner. Fair LTL Synthesis for Non-Deterministic Systems using Strong Cyclic Planners. In *Proceedings of the 23rd International Joint Conference on Artificial Intelligence (IJCAI'13)*, pp. 2343-2349. AAAI Press. 2013. GII-GRIN conference rating: A++.
- [IC23] * Giuseppe De Giacomo, Yves Lespérance, Fabio Patrizi. Bounded Epistemic Situation Calculus Theories. In *Proceedings of the 23rd International Joint Conference on Artificial Intelligence (IJCAI'13)*, pp. 846-853. AAAI Press. 2013. GII-GRIN conference rating: A++.
- [IC22] * Stavros Vassos, Fabio Patrizi. A Classification of First-Order Progressable Action Theories in Situation Calculus. In *Proceedings of the 23rd International Joint Conference on Artificial Intelligence (IJCAI'13)*, pp. 1132-1138. AAAI Press. 2013. GII-GRIN conference rating: A++.
- [IC21] Diego Calvanese, Giuseppe De Giacomo, Marco Montali, Fabio Patrizi. Verification and Synthesis in Description Logic Based Dynamic Systems (Best Paper Award). In *Proceedings of the 7th International Conference on Web Reasoning and Rule Systems (RR'13)*, pp. 50-64. Springer. 2013. (Best Paper Award). GII-GRIN conference rating: W.
- [IC20] Francesco Belardinelli, Alessio Lomuscio, Fabio Patrizi. Verification of GSM-based Artifact-Centric Systems Through Finite Abstraction. In *Proceedings of the 10th International Conference on Service-Oriented Computing (ICSOC'12)*, pp. 17-31. Springer. 2012. GII-GRIN conference rating: A-.
- [IC19] Matteo Leonetti, Luca Iocchi, Fabio Patrizi. Automatic Generation and Learning of Finite-State Controllers. In *Proceedings of the 15th International Conference on Artificial Intelligence: Methodology, Systems, and Applications (AIMSA'12)* pp. 135-144. Springer. 2012. GII-GRIN conference rating: W.
- [IC18] Francesco Belardinelli, Alessio Lomuscio, Fabio Patrizi. An Abstraction Technique for the Verification of Artifact-Centric Systems. In *Proceeding of the 13th International Conference on the Principles of Knowledge Representation and Reasoning (KR'12)*, pp. 319-328. AAAI Press. 2012. GII-GRIN conference rating: A+.
- [IC17] Giuseppe De Giacomo, Yves Lespérance, Fabio Patrizi. Bounded Situation Calculus Action Theories and Decidable Verification. In *Proceeding of the 13th International Conference on the Principles of Knowledge Representation and Reasoning (KR'12)*, pp. 467-477. AAAI Press. 2012. GII-GRIN conference rating: A+.

- [IC16] Francesco Belardinelli, Alessio Lomuscio, Fabio Patrizi. Verification of Deployed Artifact Systems via Data Abstraction. In *Proceedings of the 9th International Conference on Service-Oriented Computing (ICSOC'11)*, pp. 142-156. Springer. 2011. GII-GRIN conference rating: A-.
- [IC15] *Francesco Belardinelli, Alessio Lomuscio, Fabio Patrizi. A Computationally-Grounded Semantics for Artifact-Centric Systems and Abstraction Results. In *Proceedings of the 22nd International Joint Conference on Artificial Intelligence (IJCAI'11)*, pp. 738-743. AAAI Press. 2011. GII-GRIN conference rating: A++.
- [IC14] *Fabio Patrizi, Nir Lipovetzky, Giuseppe De Giacomo, Hector Geffner. Computing Infinite Plans for LTL Goals Using a Classical Planner. In *Proceedings of the 22nd International Joint Conference on Artificial Intelligence (IJCAI'11)*, pp. 2003-2008. AAAI Press. 2011. GII-GRIN conference rating: A++.
- [IC13] Alfonso E. Gerevini, Fabio Patrizi, Alessandro Saetti. An Effective Approach to Realizing Planning Programs. In *Proceedings of the 21st International Conference on Automated Planning and Scheduling (ICAPS'11)*, pp. 323-326. AAAI Press. 2011. GII-GRIN conference rating: A.
- [IC12] *Giuseppe De Giacomo, Paolo Felli, Fabio Patrizi, Sebastian Sardina. Two-Player Game Structures for Generalized Planning and Agent Composition. In *Proceedings of the 24th AAAI Conference on Artificial Intelligence (AAAI'10)*, pp. 297-302. AAAI Press. 2010. GII-GRIN conference rating: A++.
- [IC11] Giuseppe De Giacomo, Fabio Patrizi, Sebastian Sardina. Generalized Planning with Loops under Strong Fairness Constraints. In *Proceedings of the 12th International Conference on the Principles of Knowledge Representation and Reasoning (KR'10)*, pp. 351-361. AAAI Press. 2010. GII-GRIN conference rating: A+.
- [IC10] *Giuseppe De Giacomo, Fabio Patrizi, Sebastian Sardina. Agent Programming via Planning Programs. In *Proceedings of the 9th International Conference on Autonomous Agents and Multiagent Systems (AAMAS'10)*, pp. 491-498. IFAAMAS, 2010. GII-GRIN conference rating: A++.
- [IC9] Riccardo De Masellis, ClaudioDi Ciccio, Massimo Mecella, Fabio Patrizi. Smart Home Planning Programs. In *Proceedings of the 7th International Conference on Service Systems and Service Management (ICSSSM'10)*, pp. 377-382. IEEE Society. 2010. GII-GRIN conference rating: W.
- [IC8] Giuseppe De Giacomo, Riccardo De Masellis, Fabio Patrizi. Composition of Partially Observable Services Exporting their Behaviour. In *Proceedings of the 19th International Conference on Automated Planning and Scheduling (ICAPS'09)*, pp. 90-97. AAAI Press. 2009. GII-GRIN conference rating: A.
- [IC7] *Alin Deutsch, Rick Hull, Fabio Patrizi, Victor Vianu. Automatic Verification of Data-Centric Business Processes. In *Proceedings of the 12th International Conference on Database Theory (ICDT'09)*, pp. 252-267. ACM. 2009. GII-GRIN conference rating: A.
- [IC6] Sebastian Sardina, Fabio Patrizi, Giuseppe De Giacomo. Behavior Composition in the Presence of Failure. In *Proceedings of the 11th International Conference on Principles of Knowledge Representation and Reasoning (KR'08)*, pp. 640-650. AAAI Press. 2008. GII-GRIN conference rating: A+.
- [IC5] Giuseppe De Giacomo, Fabio Patrizi, Sebastian Sardina. Automatic Synthesis of a Global Behavior from Multiple Distributed Behaviors. In *Proceedings of the 22nd Conference on Artificial Intelligence (AAAI'07)*, pp. 1063-1069. AAAI Press. 2007. GII-GRIN conference rating: A++.
- [IC4] Giuseppe De Giacomo, Massimiliano de Leoni, Massimo Mecella, Fabio Patrizi. Automatic Workflows Composition of Mobile Services. In *Proceedings of the 2007 IEEE Conference on Web Services (ICWS'07)*, pp. 823-830. IEEE Society. 2007. GII-GRIN conference rating: A-.
- [IC3] Marco Cadoli, Toni Mancini, Fabio Patrizi. SAT as an Effective Solving Technology for Constraint Problems. In *Proceedings of the 16th International Symposium on Methodologies for Intelligent Systems (ISMIS'06)*, pp. 540-549. Springer. 2006. GII-GRIN conference rating: B-.

- [IC2] Marco Cadoli, Toni Mancini, Fabio Patrizi. Evaluating ASP and commercial solvers on the CSPLib. In *Proceedings of the 17th European Conference on Artificial Intelligence (ECAI'06)*, pp. 68–72. IOS Press. 2006. GII-GRIN conference rating: A.
- [IC1] Marco Cadoli, Fabio Patrizi. On the Separability of subproblems in Benders Decompositions. In *Proceedings of the 3rd International Conference on Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems (CP-AI-OR'06)*, pp. 74–88. Springer. 2006. GII-GRIN conference rating: B-.

International Workshops

- [IW9] Diego Calvanese, Marco Montali, Fabio Patrizi, Andrey Rivkin. Implementing Data-Centric Dynamic Systems over a Relational DBMS. In *Proceedings of the 9th Alberto Mendelzon International Workshop on Foundations of Data Management*. CEUR Workshop Proceedings. 2015.
- [IW8] Diego Calvanese, Giuseppe De Giacomo, Marco Montali, Fabio Patrizi. Dynamic Systems Based on Description Logics: Formalization, Verification, and Synthesis. In *Proceedings of the 26th International Workshop on Description Logics (DL'13)*, pp. 573–586. CEUR Workshop Proceedings. 2013.
- [IW7] Giuseppe De Giacomo, Fabio Patrizi. Automated composition of nondeterministic stateful services. In *Proceedings of the 6th International Workshop on Web Services and Formal Methods (WS-FM'09)*. 2009.
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Rome,

Sincerely,

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