

# Curriculum Vitae

## Theodore Patkos

### PERSONAL INFORMATION

Date of Birth: July 12, 1980  
Place of Birth: Thessaloniki, Greece  
Citizenship: Greek  
Marital Status: Married  
Military Duties: Fulfilled

### CONTACT INFORMATION

E-mail: [patkos@csd.uoc.gr](mailto:patkos@csd.uoc.gr)  
Web-page: <http://www.csd.uoc.gr/~patkos>  
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#### *Office*

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### CURRENT AND PAST POSITIONS

#### *Current*

2013-today: Post-doctoral Researcher at the Foundation for Research and Technology – Hellas (FO.R.T.H.), Institute of Computer Science (I.C.S.), Information Systems Laboratory (I.S.L.).

#### *Past*

2011-2013: Post-doctoral Research Engineer at the Laboratoire Images Signaux & Systèmes Intelligents of the Institute of Technology of Créteil-Vitry et Université Paris Est Créteil

2004-2010: Research Assistant at the Foundation for Research and Technology – Hellas (FO.R.T.H.), Institute of Computer Science (I.C.S.), Information Systems Laboratory (I.S.L.).

### EDUCATION

2005-2010: Ph.D. in Computer Science, Computer Science Department, University of Crete  
Topic: “A Formal Theory for Reasoning about Action, Knowledge and Time”  
Supervisor: Professor Dimitris Plexousakis  
Scientific Areas: Cognitive Robotics, Ambient Intelligence, Action Theories, Context-aware Computing

2002-2004: M.Sc. in Information Systems, Computer Science Department, University of Crete  
Topic: “A Semantic Marketplace of Peers Hosting Negotiating Intelligent Agents”  
Supervisor: Associate Professor Dimitris Plexousakis  
Scientific Areas: Semantic Web, Intelligent Software Agents, Peer-to-peer Systems

1998-2002: BS in Computer Science, Department of Informatics, Aristotle University of Thessaloniki

### LANGUAGE CERTIFICATIONS

English: Certificate of Proficiency in English, Michigan University  
Certificate in Advanced English, Cambridge University

German: Zertifikat Deutsch als Fremdsprache (Grundstufe)

## AWARDS & SCHOLARSHIPS

- 2018 **Best Poster & Demo Award**, with Vangelis Kritsotakis, Yannis Roussakis and Maria Theodoridou, at the 14 SEMANTiCS 2018 European conference on Semantic Technologies and AI, for the contribution “Assistive Query Building for Semantic Data”.
- 2012 **Best Paper Award** with Abdelghani Chibani, Dimitris Plexousakis and Yacine Amirat) at the 6<sup>th</sup> International Symposium on Rules (RuleML'12), for the paper “A Production Rule-based Framework for Causal and Epistemic Reasoning”, which was invited for presentation in the Subarea Spotlight Track of the 26<sup>th</sup> Conference on Artificial Intelligence (AAAI'12)
- 2009-2010 **“Manasaki” Fellowship**, by the University of Crete, for excellence in doctoral studies.
- 2008 **Best Student Paper Award** (with Dimitris Plexousakis) at the 5<sup>th</sup> Hellenic Conference on Artificial Intelligence, SETN'08, for the paper “A Theory of Action, Knowledge and Time in the Event Calculus”.
- 2004-10 **Student/Researcher Scholarship** by the Institute of Computer Science, FORTH

## RESEARCH ACTIVITIES

- 2019-today *CAP-A (NGI-Trust Open Call - 11)* The project will develop tools for empowering the role of human users in promoting privacy when using digital services.  
**Role (proposal-time):** Proposal Co-coordinator  
**Role (project time):** Scientific Coordinator of the project
- 2019-today *DebateLab (HFRI/EIΔIEK - 4195)* The project will develop theoretical and applied argumentation tools for use in the domain of eJournalism.  
**Role (proposal-time):** Proposal Co-coordinator  
**Role (project time):** Researcher in the fields of KR&R, Computational Argumentation and the Semantic Web.
- 2018-today *SoCoLA (HFRI/EIΔIEK - 188)* The project will develop intelligent agents with social and cognitive skills, within the field of Social Robotics.  
**Role (proposal-time):** Proposal Coordinator  
**Role (project time):** Principal Investigator of the project, involving 4 Researchers, 2 PhD students, 2 MSc students.
- 2015-2018 *VRE4EIC (H2020-EU.1.4.1.3.- 676247)*. The project aims to develop a reference architecture and prototypes to be used for future VREs including building blocks that can be used to improve existing VREs. The project addresses the key data and software challenges in supporting multidisciplinary data driven sciences.  
**Role (proposal-time):** Coordinated FORTH during proposal writing  
**Role (project time):** (as of June 2018) Scientific Coordinator of FORTH (before June 2018) Researcher – Design and Implementation of mapping methodologies for enhancing interoperability between diverse knowledge sources.
- 2013-2016 *Lifewatch (NSRF/ΕΣΠΔ - 384676)*. The overall objective of the project is to ally all the Greek scientific human potential working on Biodiversity data and data observatories, in Greece and abroad, in order to achieve a world-class excellence national LifeWatch Centre.  
**Role:** Researcher – Design and Implementation of a statistical analysis environment for parallel computing.
- 2013-2015 *EICOS - Foundations for perSONalized Cooperative Information Ecosystems* (funded by "Thalis" call of Ministry of Education, operation programme "Education and Lifelong Learning, NSRF 2007 -2013): The aim of EICOS was to provide the methodology, the theoretical and modeling foundations as well as the algorithmic techniques and the necessary software architecture that will facilitate the personalization, integration, and evolution management facilities for information ecosystems  
**Role:** Researcher – Design of modeling methodologies
- 2013-2015 *Multi-Context Reasoning in Heterogeneous Environments, Slovak-Greece Research and Development Cooperation (GGET 12SLO\_ET29\_1087)*. The aim of the project is the development of a framework for defeasible reasoning in multi-agent heterogeneous environments in the context of smart spaces.  
**Role:** Post-doctoral researcher – Knowledge Representation and Reasoning

- 2011-2013 *Predykot (ITEA 2 - 10035)*. The project aims to provide an innovative, modular and consistent suite to ensure that a policy (access control security, SLA etc) remains efficient whatever changes occur to it: administrative, contextual etc.  
**Role:** Researcher – Semantic Knowledge Representation and Reasoning with Formal Methods
- 2011-2013 *A2Nets (ITEA 2 - 09031)*. The project aims to apply autonomic computing and communication paradigms in the context of M2M networks and enable interoperability between different vertical domain M2M applications and services.  
**Role:** Researcher – Semantic Knowledge Representation and Reasoning
- 2011-2013 *Web of Objects (ITEA 2 - 10028)*. The project’s goal is to turn up the Internet of Things promises by simplifying object and application deployment, commissioning, maintenance, operation and service composition inside building infrastructures.  
**Role:** Researcher – Semantic Knowledge Representation and Reasoning
- 2007-2010 *Ambient Intelligence (Aml) Programme*. Served as workpackage leader and coordinator of WP5 “Information Representation and Management” in the multi-disciplinary Ambient Intelligence project. The responsibility of the group was to develop a semantics-based reasoning framework for context-aware smart spaces (other members were 2 Professors, 1 PhD candidate, 2 R&D engineers and several undergraduate and postgraduate students). Funded by the Foundation for Research and Technology, Hellas.  
**Role:** Researcher, WP leader
- 2009 *S-Cube*. I was involved in the European Network of Excellence in Software Services and Systems (S-Cube), which aims at establishing a research community to contribute in and reshape the field of software services and systems. Funded by the European Community's 7<sup>th</sup> Framework Programme FP7/2007-2013.
- 2003 *Crisatel*. As a post-graduate student I was involved in the “Conservation Restoration Innovation Systems for image capture and digital archiving to enhance Training, Education and longlife Learning” project, which aimed at developing a technology and information environment to preserve paintings and the created digital resources in long terms. Funded under EU-IST 5th Framework Programme.

## RESEARCH INTERESTS

- Ambient Intelligence
- Knowledge Representation and Reasoning
- Context-aware Computing
- Cognitive Robotics
- Action Theories
- Human-Robot Interaction
- Semantic Web
- Computational Argumentation
- Intelligent Software Agents
- Peer-to-peer Systems
- Logic-based Programming

## SCIENTIFIC ACTIVITIES

- Co-chair of the **RuleML+RR 2017 Doctoral Consortium**, held in London, UK, with Antonis Bikakis (UCL)
- Co-chair of the 12<sup>th</sup> **International Symposium on Logical Formalizations of Commonsense Reasoning** (Commonsense 2015) held in Stanford, California, with Leora Morgenstern (Leidos) and Robert Sloan (University of Illinois at Chicago).
- Co-chair of the **RuleML 2014 Challenge** (8<sup>th</sup> International Rule Challenge) held in Prague, Czech Republic, in collocation with the 21<sup>st</sup> European Conference on Artificial Intelligence, with Adam Wyner (University of Aberdeen, UK) and Adrian Giurca (Brandenburg University of Technology Cottbus–Senftenberg, Germany).
- Co-chair of the **Special Session on Action Languages**, held in the 8th Hellenic Conference on Artificial Intelligence SETN’14, with Alexander Artikis (NCSR Demokritos, Greece), Marco Montali (Free University of Bozen-Bolzano, Italy) and Stavros Vassos (Sapienza University of Rome, Italy).
- Co-chair of the **Sensing, Reasoning and Actuation in Ubiquitous Systems and Cloud Robotics** track of the 4th International Conference on Emerging Ubiquitous Systems and Pervasive Networks (EUSPN’13), with Abdelghani Chibani (University of Paris-Est, France) and Eric Matson (Purdue University, USA)

Member of the Hellenic Association for Artificial Intelligence (EETN) (since 2006)

Served as reviewer or external reviewer in numerous journals and conferences, including:

- The 13<sup>th</sup> International Symposium on Commonsense Reasoning (Commonsense-17)
- The 25<sup>th</sup> International Joint Conference on Artificial Intelligence (IJCAI-16)
- The 9<sup>th</sup> Hellenic Conference on Artificial Intelligence (SETN'16)
- The ACM Transactions on Autonomous and Adaptive Systems (TAAS 2015)
- The RuleML Special Issue of the Theory and Practice in Logic Programming (2015)
- The International Web Rule Symposium (RuleML '13,14,15)
- The 7<sup>th</sup> Multi-Disciplinary International Workshop on Artificial Intelligence (MIWAI'13)
- Special Issue on Ubiquitous Networked Robots (UNR) of Journal Annals of Telecommunications- Springer (2011)
- International Journal on Artificial Intelligence Tools - IJAIT (2010)
- Annals of Mathematics and Artificial Intelligence (2009)
- Ontologies, DataBases, and Applications of Semantics (ODBASE'10)
- The IEEE International Conference on Web Services (ICWS'07)
- The IEEE Joint Conference on E-Commerce Technology (CEC'06) and Enterprise Computing, E-Commerce and E-Services (EEE'06)
- The 5<sup>th</sup> International Workshop on Agents and Peer-to-Peer Computing (AP2PC 2006)
- The 6<sup>th</sup> International Conference on Web Information Systems Engineering (WISE-05)
- The 2<sup>nd</sup> European Semantic Web Conference (ESWC-05)

Translated in Greek the second edition of Grigoris Antoniou and Frank van Harmelen's "A Semantic Web Primer", Klidarithmos edt. 2009 (in cooperation with PhD Student Stratos Kontopoulos).

#### TEACHING EXPERIENCE

2017-2019	Visiting Professor, Instructor of the post-graduate course HY-567 Knowledge Representation and Reasoning, Computer Science Department, University of Crete.
2014-2016	Visiting Professor, co-instructor (with Prof. Dimitris Plexousakis) of the post-graduate course HY-567 Knowledge Representation and Reasoning, Computer Science Department, University of Crete.
2003-2010	Teaching Assistant in several courses related to Database Management Systems, Logic, Business Process and Workflow Management Systems, Data Structures, Discrete Mathematics and Programming in the Computer Science Department, University of Crete.
2008	Served as guest speaker in the seminar of KEK Training schools of Iraklio's Chamber in cooperation with the University of Crete titled "Business Process Management and e-Services" organized by the Regional Innovation Pole of Crete (September 2008).

Invited Lecturer at the 3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup> Next-Generation Enterprise Modelling in the Age of Internet of Things – Nemo Summer School (2016, 2017, 2018).

#### STUDENT SUPERVISION

##### *PhD*

2019-now	<b>Filippos Gouidis</b> (PhD Student). Co-supervised with Prof. Dimitris Plexousakis, Prof. Antonis Argyros and Dr. Giorgos Flouris. Topic (tentative): Towards coupling Machine Vision with symbolic AI to achieve Visual Intelligence
2019-now	<b>Alexandros Vassiliades</b> (PhD Student). Co-supervised with Prof. Nick Bassiliades, Prof. Dimitris Plexousakis. Topic (tentative): Exploiting knowledge from the Semantic Web to promote cognitive and argumentative behavior of agents in the field of Social Robotics
2013-now	<b>Dimitra Zografistou</b> (PhD Student). Co-supervised with Prof. Dimitris Plexousakis and Dr. Giorgos Flouris. Topic: ArgQL A Query Language for Computational Argumentation

##### *Postgraduates*

2018-2019	<b>Nena Basina</b> (MSc Student) Co-supervised with Prof. Dimitris Plexousakis and Dr. Giorgos Flouris. Topic: An Event-Calculus Visual Assistant Environment
2018-2019	<b>Konstantinos KREATSOULAS</b> (MSc Student) Co-supervised with Prof. Dimitris Plexousakis and Dr. Giorgos Flouris. Topic: A Community Portal for Expressing Privacy Concerns and Expectations

- 2016-2018 **Nikolas Zourbakis** (MSc Student) Co-supervised with Prof. Dimitris Plexousakis. Topic: Solving Simulated Application Scenarios with the use of Commonsense Reasoning.
- 2016-2017 **Tsabanaki Nikoleta** (MSc Student) Co-supervised with Prof. Dimitris Plexousakis and Dr. Giorgos Flouris. Topic: A Commonsense-Driven Model of Belief Revision for Dynamic Domains using the Event Calculus
- 2016-2017 **Lilitsis Prodrimos** (MSc Student) Co-supervised with Prof. Dimitris Plexousakis and Dr. Giorgos Flouris. Topic: Travel Companion: A mobile system for trip assistance relying on Artificial Intelligence and Augmented Reality
- 2015-2016 **Ymerali Elisiana** (MSc Student) Co-supervised with Prof. Dimitris Plexousakis and Dr. Giorgos Flouris. Topic: A Web-based Platform for the Analysis of Structured Dialogues
- 2013-2015 **Filippos Gouidis** (MSc Student), Co-supervised with Prof. Dimitris Plexousakis and Dr. Giorgos Flouris. Topic: Algorithms for Plan Repairing
- 2010-2011 **Xrysi Fillipaki** (MSc Student). Co-supervised with Prof. Grigoris Antoniou and Assist. Prof. Ioannis Tsamardinos. Topic: Rule-based Complex Event Detection.
- 2008-2009 **Ioannis Androulakis**, Co-supervised with Prof. Dimitris Plexousakis. Topic: A Semantic Peer-to-Peer Marketplace Hosting Trusted Negotiations Among Intelligent Agents.
- 2008-2009 **Lito Kriara** (MSc Student). Co-supervised with Prof. Dimitris Plexousakis, Prof. Grigoris Antoniou, Assist. Prof. Maria Papadopouli, PhD Student Antonis Bikakis. Topic: Experimenting with the Fingerprinting Method Using Signal-based Measurements for Providing Positioning Information to Location-based Applications.
- 2007-2008 **Maria Michou** (MSc Student). Co-supervised with Prof. Dimitris Plexousakis, Prof. Grigoris Antoniou, PhD Student Antonis Bikakis. Topic: A Semantics-based User Model for the Support of Personalized, Context-aware Navigation Services.
- 2007-2008 **Emmanouil Nikoloudakis** (MSc Student). Co-supervised with Prof. Dimitris Plexousakis, Prof. Grigoris Antoniou, PhD Student Antonis Bikakis. Topic: Semantics-based User Tracking and Dynamic Re-planning for a Contextual Guide.
- 2007-2008 **Emmanouil Kristotakis** (MSc Student). Co-supervised with Prof. Dimitris Plexousakis, Prof. Grigoris Antoniou, PhD Student Antonis Bikakis. Topic: Semantics-based Navigation for a Contextual Guide.
- Graduates*
- 2017 **Manolis Dermitzakis** (BSc Student). Co-supervised with Dr. Giorgos Flouris and Prof. Dimitris Plexousakis. Topic: A semantics-enabled publication management portal.
- 2017 **Vaggelis Theodorakopoulos** (BSc Student) Co-supervised with Prof. Dimitris Plexousakis. Topic: An ASP University Scheduler
- 2015 **Georgios Smyrnaio**s (BSc Student). Co-supervised with Prof. Dimitris Plexousakis, Dr. Giorgos Flouris, Dr Irini Fundulaki and Dr Panagiotis Papadacos
- 2015 **Ioannis Moschon**as (BSc Student). Co-supervised with Prof. Dimitris Plexousakis, Dr. Giorgos Flouris, Dr Irini Fundulaki and Dr Panagiotis Papadacos
- 2015 **Nikoleta Tsabanaki** (BSc Student). Co-supervised with Prof. Dimitris Plexousakis. Le Sommelier - A prioritised Multi-Criteria Recommendation System for Wine Matching Using ASP.
- 2011 **Spyros Roussogiannakis** (BSc Student). Co-supervised with Prof. Dimitris Plexousakis, Topic: An Event Calculus Planner on top of DECReasoner.
- 2010 **Elena Epitropaki** (BSc Student). Co-supervised with Prof. Grigoris Antoniou and MSc Student Maria Michou. Topic: Rule-based context guide for portable devices.
- 2010 **Stavros Kirikos** (BSc Student). Co-supervised with Prof. Dimitris Plexousakis, Topic: Presentation and Benchmarking of DL Reasoners.

## PUBLICATIONS

### *Book Chapters*

- Abdelghani Chibani, Antonis Bikakis, Theodore Patkos, Yacine Amirat, Sofiane Bouznad, Naouel Ayari, Lyazid Sabri, “**Using Cognitive Ubiquitous Robots for Assisting Dependent People in Smart Spaces**”, Intelligent Assistive Robots, Springer Tracts in Advanced Robotics 106, pp 297-316, 2015.

*Peer-reviewed Journals, Conferences, Workshops*

**2019**

- Nikoleta Tsampanaki, Theodore Patkos, Giorgos Flouris, Dimitris Plexousakis, “**Revising event calculus theories to recover from unexpected observations**”, *Annals of Mathematics and Artificial Intelligence*, <https://doi.org/10.1007/s10472-019-09663-5>, 2019
- Dimitris Arampatzis, Maria Doulgeraki, Michalis Giannoulis, Evropi Stefanidi, Theodore Patkos, “**EduBAI: An Educational Platform for Logic-Based Reasoning**”. In: MacIntyre J., Maglogiannis I., Iliadis L., Pimenidis E. (eds) *Artificial Intelligence Applications and Innovations. AIAI 2019, IFIP AICT 559*, pp. 464–472, 2019

**2018**

- Filippos Gouidis, Theodore Patkos, Giorgos Flouris, Dimitris Plexousakis, “**Dynamic Repairing A\*: a Plan-Repairing Algorithm for Dynamic Domains**”, In proceedings of the 10<sup>th</sup> International Conference on Agents and Artificial Intelligence, 2018.
- Dimitra Zografistou, Giorgos Flouris, Theodore Patkos, Dimitris Plexousakis, “**Implementing the ArgQL Query Language**”, in *Proceedings of the 7<sup>th</sup> International Conference on Computational Models of Argument (Comma-18)*, pp. 241-248, 2018
- Vangelis Kritsotakis, Yannis Roussakis, Theodore Patkos, Maria Theodoridou, “**Assistive Query Building for Semantic Data**”, in *Poster/Demo Proceedings of the 14<sup>th</sup> European conference on Semantic Technologies and AI (SEMANTiCS-18)*, 2018  
(*Received a Best Demo and Poster Award*) (*blind review*)
- Prodormos Lilitsis, Theodore Patkos, Giorgos Flouris, Dimitris Plexousakis, “**Travel Companion: A mobile system for trip assistance relying on Artificial Intelligence and Augmented Reality**”, *Poster Session in the 10<sup>th</sup> Hellenic Conference on Artificial Intelligence (SETN-18)*, Patras 9-12 July, 2018.
- Giorgos Flouris, Theodore Patkos, Ioannis Chrysakis, Ioulia Konstantinou, Nikolay Nikolov, Panagiotis Papadakis, Jeremy Pitt, Dumitru Roman, Alexantru Stan, Chrysostomos Zeginis, “**Towards a Collective Awareness Platform for Privacy Concerns and Expectations**”, *Confederated International Conferences: CoopIS, C&TC, and ODBASE 2018*, Valletta, Malta, October 22-26, 2018

**2017**

- Elisjana Ymeralli, Giorgos Flouris, Theodore Patkos, Dimitris Plexousakis. “**APOPSIS: A Web-based Platform for the Analysis of Structured Dialogues**”. In *Proceedings of the 16<sup>th</sup> International Conference on Ontologies, DataBases, and Applications of Semantics (ODBASE-17)*, 2017.
- Nikoleta Tsabanaki, Giorgos, Flouris, Theodore Patkos, “**Steps Towards Commonsense-Driven Belief Revision in the Event Calculus**”, In *Proceedings of the 13<sup>th</sup> International Symposium on Commonsense Reasoning (Commonsense-17)*, 2017.
- Ioannis Chrysakis, Emmanouil Dermitzakis, Giorgos Flouris, Theodore Patkos, Dimitris Plexousakis. “**PRESS: A Publication REpository Semantic System**”. In *Poster/Demo Proceedings of the 13<sup>th</sup> International Conference on Semantic Systems (SEMANTiCS-17)*, 2017.
- Giorgos Flouris, Theodore Patkos, Ilia Adami, Antonis Bikakis, Manos Dimitrakis, George Mathioudakis, Giannis Roussakis, Dimitris Plexousakis. “**Methinks: Enabling Sophisticated Comment Management in the Social Web**”. In *Poster/Demo Proceedings of the 13<sup>th</sup> International Conference on Semantic Systems (SEMANTiCS-17)*, 2017.
- Keith G. Jeffery, Carlo Meghini, Cesare Concordia, Theodore Patkos, Valerie Brasse, Jacco von Osssenbruck, Yannis Marketakis, Nikos Minadakis, Eda Marchetti “**A Reference Architecture for Virtual Research Environments**”, in the *Proceedings of the 15<sup>th</sup> International Symposium of Information Science (ISI 2017)*, pages 76-88, 2017.

**2016**

- Theodore Patkos, Giorgos Flouris, Antonis Bikakis, “**A Multi-Aspect Evaluation Framework for Comments on the Social Web**”, in the *15<sup>th</sup> International Conference on Principles of Knowledge Representation and Reasoning (KR’16)*, pages 593-596, 2016.
- Theodore Patkos, Dimitris Plexousakis, Abdelghani Chibani, Yacine Amirat, “**An Event Calculus Production Rule System for Reasoning in Dynamic and Uncertain domains**”, in *Theory and Practice of Logic Programming (TPLP) Volume 16, Issue 3*, pp. 325-352, 2016.
- Theodore Patkos, Giorgos Flouris, Antonis Bikakis, “**Symmetric Multi-Aspect Evaluation of Comments - Extended Abstract**”, *European Conference on Artificial Intelligence (ECAI’16)*, pp. 1672-1673, 2016.

- Yannis Tzitzikas, Carlo Allocca, Chryssoula Bekiari, Yannis Marketakis, Pavlos Fafalios, Martin Doerr, Nikos Minadakis, Theodore Patkos, Leonardo Candela, “**Unifying heterogeneous and distributed information about marine species through the top level ontology MarineTLO**”, Emerald Group Publishing Limited, Program, Vol. 50:1, pp. 16 - 40, 2016.
- Constantinos Varsos, Theodore Patkos, Anastasis Oulas, Christina Pavloui, Alexandros Gougousis, Umer Zeeshan Ijaz, Irene Filiopoulou, Nikolaos Pattakos, Edward Vanden Berghe, Antonio Fernández-Guerra, Sarah Faulwetter, Eva Chatzinikolaou, Evangelos Pafilis, Chryssoula Bekiari, Martin Doerr, Christos Arvanitidis, “**Optimized R functions for analysis of ecological community data using the R virtual laboratory (RvLab)**”, Biodiversity Data Journal, 2016

#### 2015

- Martin Homola, Theodore Patkos, Giorgos Flouris, Jozef Frtus, Alexander Simko, Jan Sefranek, Dimitra Zografistou, Martin Balaz, “**Resolving Conflicts in Knowledge for Ambient Intelligence**”, The Knowledge Engineering Review (KER), Vol. 30:5, Cambridge University Press, pp. 455-513, 2015.
- Martin Homola, Theodore Patkos “**Different Types of Conflicting Knowledge in Aml Environments**”, In the 19<sup>th</sup> International Conference on Knowledge Engineering and Knowledge Management (EKWA 2014) Satellite Events, pp 52-63, 2015.
- Dimitra Zografistou, Giorgos Flouris, Theodore Patkos, Dimitris Plexousakis, Martin Baláz, Martin Homola and Alexander Simko, “**A dialogical model for collaborative decision making based on compromises**”, In the 12<sup>th</sup> European Conference on Multi-Agent Systems (EUMAS'14), pp 414-423, 2015.
- T. Patkos, G. Flouris, P. Papadakos, A. Bikakis, P. Casanovas, J. González-Conejero, R. Varela, A. Hunter, G. Idir, G. Ioannidis, M. Kacprzyk-Murawska, A. Nowak, J. Pitt, D. Plexousakis, A. Rychwalska, A. Stan, “**Privacy-by-Norms, Privacy Expectations in Online Interactions**”, 3<sup>rd</sup> IEEE International Workshop on Self-Adaptive and Self-Organising Systems (SASOW), pp 1-6, Cambridge, September 25, 2015.

#### 2014

- Filippos Gouidis, Theodore Patkos, Giorgos Flouris, Dimitris Plexousakis, “**Declarative Reasoning Approaches for Agent Coordination**”, 8th Hellenic Conference on Artificial Intelligence (SETN-14), pp. 489-503, Ioannina, May 15-17, 2014.
- Martin Homola, Theodore Patkos “**Different Types of Conflicting Knowledge in Aml Environments**”, In the 6th International Workshop on Acquisition, Representation and Reasoning about Context with Logic (ARCOE-Logic), 2014.
- Fedor Lehocki, Martin Homola, Theodore Patkos, “**Continuous Blood Pressure Monitoring in Telemedical Hypertension Application**”, Workshop on Smart Healthcare and Healing Environments in conjunction with the European Conference on Ambient Intelligence (Aml'14), Eindhoven, The Netherlands, 2014.

#### 2013

- Jiefei Ma, Rob Miller, Leora Morgenstern, Theodore Patkos, “**An Epistemic Event Calculus for ASP-based Reasoning About Knowledge of the Past, Present and Future**”, in the 19<sup>th</sup> International Conference on Logic for Programming, Artificial Intelligence and Reasoning (LPAR-19), Stellenbosch, South Africa, 2013.
- Rob Miller, Leora Morgenstern, Theodore Patkos, “**Reasoning About Knowledge and Action in an Epistemic Event Calculus**”, in the 11<sup>th</sup> International Symposium on Logical Formalizations of Commonsense Reasoning (Commonsense'13), 2013.
- Dimitris Plexousakis, Theodore Patkos, “**Calculi for Reasoning about Action and Knowledge**”, in the 9<sup>th</sup> Panhellenic Logic Symposium (PLS9), 2013.
- Yannis Tzitzikas, Carlo Allocca, Chryssoula Bekiari, Yannis Marketakis, Pavlos Fafalios, Martin Doerr, Nikos Minadakis, Theodore Patkos, and Leonardo Candela “**Integrating Heterogeneous and Distributed Information about Marine Species through a Top Level Ontology**”, in the 7<sup>th</sup> Metadata and Semantics Research Conference (MTRS'13), pp. 289-301, 2013.

#### 2012

- Theodore Patkos, Abdelghani Chibani, Dimitris Plexousakis and Yacine Amirat, “**A Production Rule-based Framework for Causal and Epistemic Reasoning**”, in the 6<sup>th</sup> International Symposium on Rules (RuleML'12), pp. 120-135, 2012.  
(Received a Best Paper Award)

- Beibei Hu, Theodore Patkos, Abdelghani Chibani and Amirat Yacine, “**Rule-based Context Assessment in Smart Cities**”, in the 6<sup>th</sup> International Conference on Web Reasoning and Rule Systems (RR'12), pp. 221-224, 2012.
- 2011**
- Theodore Patkos, Dimitris Plexousakis, “**Epistemic Reasoning for Ambient Intelligence**”, in Proceedings of 3<sup>rd</sup> International Conference on Agents and Artificial Intelligence (ICAART'11), pp. 242-248, 2011. (*blind review*)
  - Theodore Patkos, Dimitris Plexousakis, “**Efficient Epistemic Reasoning in Partially Observable Dynamic Domains Using Hidden Causal Dependencies**”, in the 9<sup>th</sup> International Workshop on Nonmonotonic Reasoning, Action and Change (NRAC 2011), pp 55-62, Barcelona, Spain, 2011.
- 2010**
- Theodore Patkos, Ioannis Chrysakis, Antonis Bikakis, Dimitris Plexousakis, Grigoris Antoniou, “**A Reasoning Framework for Ambient Intelligence**”, in Proceedings of 6<sup>th</sup> Hellenic Conference on Artificial Intelligence (SETN 10), S. Konstantopoulos et al. (Eds.), LNAI 6040, Springer-Verlag pp. 213–222, Athens Greece, May 4-7, 2010. (*Nominated for Best Student Paper Award*) (*blind review*)
- 2009**
- Theodore Patkos, Dimitris Plexousakis. “**Reasoning with Knowledge, Action and Time in Dynamic and Uncertain Domains**”. Proceedings of the 21<sup>st</sup> International Joint Conference on Artificial Intelligence (IJCAI'09), Pasadena, California, USA, pp. 885-890, 2009. (*blind review*)
  - Theodore Patkos, Antonis Bikakis, Grigoris Antoniou, Maria Papadopoulou, Dimitris Plexousakis. “**Design and Challenges of a Semantics-based Framework for Context-Aware Services**”. International Journal of Reasoning-based Intelligent Systems (IJRIS), Vol. 1 (1/2), pp. 18-30, 2009.
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