

# Curriculum Vitae of Grigoris Antoniou

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## 1. PERSONAL INFORMATION

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**Home address:** Irakli 72, Heraklion Crete, GR-71305, Greece  
**Email:** antoniou@ics.forth.gr  
**Phone:** +30 2810 250166

**Born:** 17/10/1961 in Thessaloniki (Greece)  
**Sex:** Male  
**Marital status:** Married with two children  
**Citizenships:** Greek and German  
**Languages:** Greek, German, English (all fluently)

## 2. EDUCATION & EMPLOYMENT

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### **Current employment**

Professor of Computer Science, University of Crete, Greece (since 2002)  
Adjunct Professor, Griffith University, Australia (since 2008)

### **Previous appointments**

2004-2011: Head of Information Systems Laboratory, Institute of Computer Science, FORTH, Greece  
2001-2002: Professor of Computer Science, University of Bremen, Germany  
1999-2001: Professor in Computing & Information Technology, Griffith University, Australia  
1998-1999: Associate Professor in Computing & Information Technology, Griffith University, Australia  
1996 - 1997: Senior Lecturer in Computing & Information Technology, Griffith University, Australia  
1994 - 1995: Lecturer in Information Systems, Department of Management, University of Newcastle, Australia  
1991 - 1994: Lecturer in Computer Science, University of Osnabrück, Germany  
1987 - 1991: Associate Lecturer in Computer Science, University of Osnabrück, Germany  
1985 - 1987: Systems analyst, Metropolis Informatics, Thessaloniki, Greece

### **Education**

14 / 12 / 1989: Dr. rer. nat. (Ph.D.) in Informatics, University of Osnabrück, Germany  
22 / 11 / 1984: Diplom (Masters) in Informatics at the University of Karlsruhe, Germany  
1979 - 1984: Study of Informatics at the University of Karlsruhe, Germany

### **Awards and scholarships**

Since 2006: **ECCAI (European Coordinating Committee for AI) Fellow**  
8/1998: Visiting scientist at Fujitsu Laboratories, Fukuoka, Japan  
1986 - 1987: Alexandros S. Onassis scholarship to pursue a Ph.D. degree  
1981: Award of excellence for best Bachelor degree (Vordiplom)

1979 - 1984: DAAD (German Academic Exchange Organisation) scholarship to pursue Bachelor and Masters degrees

### 3. ADMINISTRATIVE EXPERIENCE

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#### 3.1 EXPERIENCE AT FORTH

##### **Heading the Information Systems Laboratory, FORTH**

From January 2004 to the end of 2011 I was **Head of the Information Systems Laboratory** ([www.ics.forth.gr/isl/](http://www.ics.forth.gr/isl/)) of the FORTH Institute of Computer Science. The Institute is the top ranked computer science institute in Greece (confirmed by an independent evaluation by international experts on behalf of the Greek government), and is the Greek node in the ERCIM network.

The Information Systems Laboratory (ISL) is a major international focal point in the areas of the knowledge representation and reasoning, ontology-based systems, database systems, semantic web and their applications, including Cultural Informatics, Ambient Intelligence, Digital Libraries, e-Learning and Bioinformatics. ISL consists of over 50 professors, researchers, development staff and postgraduate students.

The main directions of research include:

- Knowledge systems: ontology-based systems, knowledge representation, rule-based systems
- Database systems: large-scale data management, provenance, access control
- Net-centric systems: Semantic Web, Web services, P2P systems
- Applications: ambient intelligence, e-Learning, cultural informatics, digital libraries, bioinformatics

Through its achievements and its working international relationships, it has a strong track record in winning and carrying out European research projects in the areas of semantics and ontology based systems. An indicative list of current or recent projects is given below:

- PlanetData (IST NoE, 2010-2010) (large-scale data management)
- PlugIT (IST STREP, 2009-2011) (software modeling)
- 3DCOFORM (IST STREP, 2009-2012) (3D digital content)
- KP-LAB (IST IP, 2006-2011) (e-Learning)
- CASPAR (IST IP, 2006-2009) (digital preservation)
- ACGT (IST IP, 2006-2008) (biomedical informatics)
- REVERSE - Reasoning on the Web with Reasoning and Semantics (IST NoE, 2004-2007)
- DELOS (IST NoE, 2004-2007) (digital libraries)
- Ubi-Erat-Lupa (2002-2005) (organization and presentation of information about Roman monuments)
- CRISATEL - Conservation Restoration Innovation Systems for image capture and digital Archiving to enhance Training, Education and longlife Learning (IST, 2001-2004)
- MEDIATOR - Integration of Digital Cultural Content with Semantic Web Technologies (Greece, 2008-2009)
- POLEMON - The National Monuments Record System (Greece)

##### **Scientific Committee, Institute of Computer Science**

From January 2004 to the end of 2011 I was member of the Scientific Committee of Institute of Computer Science at FORTH. This committee consists of the Director and five members, and is responsible for strategy and operations of the Institute.

### 3.2 OTHER ADMINISTRATIVE EXPERIENCE

#### At the University of Crete

- Member of the Postgraduate Studies Board

#### At Griffith University

- First year coordinator (1996)
- Member of the School Committee and the Undergraduate Studies Board (1996-2000)

#### At the University of Newcastle

- Chair of the departmental committee which planned and prepared the introduction of an Honours degree in Information Science (1995)
- Member of the Senate's Ethics Subcommittee (1995)

#### At the University of Osnabrück

- Member of the University's Academic Senate (1992-1993)
- Member of the Fachbereichsrat, the departmental executive body (1988-1994)
- Library coordinator of the Computer Science Group (1993-1994)

## 4. COMMUNITY SERVICE

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#### Scientific societies

- **Member of the ECCAI (European Coordinating Committee on Artificial Intelligence) Board** (since 2008)
- **Treasurer of Semantic Technologies Institutes International (STI2)** (since 2012)
- Member of the *Board of the Hellenic Artificial Intelligence Society* (2007-2010)
- I was a member of the *Australian National Committee on Artificial Intelligence & Expert Systems*, the national AI body
- Member of the IFIP Working Group on the Semantic Web (since 2004)

#### Initiatives

- Semantic Data Management ([www.semdata.org](http://www.semdata.org))
- Ontology Dynamics (<http://www.ontologydynamics.org>)

#### Editorial Boards

- Editor, *Knowledge and Information Systems*
- Editor, *International Journal of Artificial Intelligence Tools*
- Editor, *Intelligent Decision Technologies*
- Editor, *International Journal of Logic-Based Intelligent Systems*
- Editorial Board member, *Intelligence Science Series*, World Scientific Publishers

### **Special issues**

- **Guest editor, *Journal of Web Semantics*, Special Issue on Semantic Web Dynamics (2011; forthcoming)**
- **Guest editor, *Journal of Logic and Computation*, Special Issue on Ontology Dynamics (2009)**
- Guest editor, *International Journal of Artificial Intelligence Tools*, Special Issue on Advances of AI (selection of papers from SETN'06)
- **Guest editor, *Web Semantic Journal*, Special Issue on Rules for the Semantic Web (2005)**
- Guest editor, *Knowledge-Based Systems*, Special Issue on the Verification and Validation of Knowledge-Based Systems (1999)
- Guest editor, *Information Sciences*, Special Issue on Logical Methods for Computational Intelligence (1999)
- Guest editor, *International Journal of Intelligent Systems in Accounting, Finance and Management*, Special Issue on Business Applications of Artificial Intelligence (1998)

### **Conference leadership**

- **Organizer, Dagstuhl Seminar on Semantic Data Management (2012)**
- **Steering Committee member, Extended Semantic Web Conference (ESWC), since 2011**
- **General Co-Chair, RuleML 2012**
- **General Chair, 8th Extended Semantic Web Conference (ESWC'2011)**
- **Advisory Committee member, 22<sup>nd</sup> International Joint Conference on Artificial Intelligence (IJCAI'11)**
- Advisory Committee member, WIMS'11, The International Conference on Web Intelligence, Mining and Semantics
- **PC Co-Chair, 7th Extended Semantic Web Conference (ESWC'2010)**
- **PC Co-Chair, 2009 IEEE International Conference on e-Business Engineering (ICEBE 2009), Macau, China**
- *PC Chair, 4th Hellenic Conference on Artificial Intelligence (2006), Heraklion, Greece*
- *General Co-Chair, 11th Australian Joint Conference on Artificial Intelligence (1998), Brisbane, Australia*

### **Invited speaker**

- 2nd International Conference on Metadata and Semantics Research, Corfu 2007
- 1st International Workshop on Logic-Based Interpretation of Context: Modelling and Applications, in conjunction with LPNMR'09, Potsdam 2009
- 14th East-European Conference on Advances in Databases and Information Systems (ADBIS'2010), Novi Sad 2010
- The 5th International Symposium on Rules (RuleML 2011), Barcelona 2011

### **Program committee participation**

**1997:** AI'97, EUROVAV'97, ICINN'97

**1998:** ICINN'98, PAKDD'98

**1999:** PACES'99, IEA/AIE '99

**2001:** ICTAI'01, IRMA'01

**2002:** ICTAI'02, ECAI'02 (Senior PC), IRMA'02, SETN'02, PCI'02

**2003:** ICTAI'03, IRMA'03, ICSOC'03, PCI'03

**2004:** ICTAI'04, IRMA'04, ISWC'04, ICSOC'04, SETN'04, PCI'04

**2005:** ICTAI'05, ISWE'05, RuleML'05, ICSW'05, PCI'05, AC'2005

**2006:** KR'06, ICTAI'06, ICWE'06, RuleML'06, KSEM'06, AIMSA'06, ICEC'06, ESWC'06, ICWS'06, PCI'06

**2007:** ICTAI'07 (Area Chair), DALT'07, ICWE'07, RR'07, ICWS'07, RuleML'07, AI'07, PCI'07, REFS2007

**2008:** ECAI'08 (Area Chair), ESWC'08 (PC member & Tutorials Chair), KR'08, ESWC'08, ISWC'08, ASWC'08, ESAS'08, RR'08, RuleML'08, DALT'08, ReMoD'08, WEBIST'08, REFS2008

**2009:** ASWC'09, RR'09, RuleML'09, COLA'09, REFS 2009, BIS 2009, SOFSEM'09

**2010:** KR'10, AIMSA'10, CIKM 2010, NMR'10, RR 2010, ICAI-10, ICEBE 2010, RuleML 2010 (Area Chair)

**2011:** ISWC'2011, ICEBE 2011, RuleML 2011, INAP 2011

**2012:** ESWC 2012, KR 2012, Reasoning Web 2012, IE'12, SETN 2012

### **Workshop organisation**

I have a strong track record in organising workshops at national and international events (e.g. AAI, IJCAI, KR, CIKM, ESWC). Several of these workshops have had their proceedings published by an international publisher, or selected papers published in journal special issues.

### **Lectures and tutorials**

I am a regular presenter of courses and tutorials at national and international events, which is a documentation of the recognition of my presentation abilities and my research strength. Below is a list of tutorials and courses I have given.

- Compact course at the Universidade de Sao Paulo, Brazil (September 2005)
- Compact graduate course at the Universidad del Sur, Argentina (October 1998)
- Tutorial on the Semantic Web at EEE'05 (March 2005)
- Tutorials on Pragmatics of Default Reasoning and Theory Change at IJCAI'97 (with A. Nayak and A. Ghose), on Pragmatics of Nonmonotonic Reasoning at AAI-96 (with M. Truszczyński), and on Nonmonotonic Reasoning at AI'95 and AI'94 (the Australian national AI conference)
- Lecturer at the German Spring School on Artificial Intelligence (KIFS-93)

## **5. TEACHING**

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### **5.1 TEACHING-RELATED SCHOLARLY ACTIVITIES**

#### **Teaching grant**

I was co-leader of a National Teaching Development Grant (1998-1999) funded project with subject *On-line Teaching of Intelligent Information Management Methods*. These grants are very prestigious, and competition was very severe (each university could expect to receive up to three such grants per year).

## Teaching qualification

In 1996 I enhanced my understanding of higher education by completing a one-year *Graduate Certificate in Higher Education*, a formal teaching qualification course. This helped me to enrich my teaching tools, improve the teaching outcomes, and to develop a deeper understanding of teaching and learning. My teaching evaluations have been consistently positive. In fact, in my time in Bremen (2001-2002) I received the **best teaching evaluation in computer science**.

## Textbooks

I am author of three textbooks with international publishers (Addison-Wesley, MIT Press). The books are used at universities in various parts of the world. **In fact, the book *A Semantic Web Primer* is the standard textbook on the semantic web worldwide, and has been or is about to be translated to Japanese, Chinese, Korean, Spanish and Greek.**

## 5.2 TEACHING EXPERIENCE

### Teaching interests

I have a broad, extensive experience in university teaching (see below). My interests lie in:

- Artificial Intelligence: intelligent systems and ontology-based systems
- Semantic Web, e-Commerce, Knowledge Management
- Mathematical foundations, theory

### Teaching experience

I have gathered extensive teaching experience in different countries (Germany; Australia; Greece), different departments (Mathematics & Computer Science; Management; Computing & Information Technology), and different subjects. Information on subjects I have taught is found below.

### Selected subjects

*Introduction to Computer Science* (1987/88, together with V. Sperschneider). It was a 1st year course, introduced the basics of programming in a procedural programming language (Modula-2), and described some basic algorithms and data structures.

*Algorithms and Data Structures* (1988). A 2nd year course covering a variety of data structures and algorithms, as well as algorithm design methodologies.

*Introduction to Artificial Intelligence* (1989). An undergraduate course which covered the basic methods of AI, particularly Knowledge Representation, and programming in Lisp and Prolog.

*Theoretical Foundations of Computer Science* (1989-94, 2001). A 2nd year course which introduced the basic aspects of theory for computer science students, covering formal semantics of programming languages, program verification, formal languages and automata, and the theory of computation.

*Logical Foundations of Computer Science* (1989-1993, with V. Sperschneider). A postgraduate course; it discussed in detail predicate logic, logic programming, programming in Prolog, and program verification. Our book [2] emerged out of this course.

*Database Management Systems* (1995). Two courses: one for 2nd year Diploma students, and one for 3rd year degree students (the latter with J. Coldwell).

*Systems Design* (1995). A 2nd year course covering various issues of the structured development methodologies, with emphasis placed on active student participation (under my supervision, student groups worked out and presented material on some specific topics).

*Systems Analysis and Design Project* (1995, with P. Summons). We supervised student teams in the analysis, design and development of a real-world application (Meals for Wheels).

*Discrete Mathematics and Logic* (1996, 2004). A first semester subject that introduces the basic mathematical concepts needed by computing and information technology students.

*Knowledge Representation* (1998-2000, 2003-2009). This 3rd year subject introduces the students to the basic concepts of reasoning with uncertainty, incompleteness and change.

*Nonmonotonic Reasoning* (2001-2002, 2009). A Masters subject.

*Theory of Computation* (2001-2010). Undergraduate courses covering essentials of theory: formal languages and automata, computability, and complexity.

*Knowledge Management on the Web* (2003-2008, 2010). A Masters course on Semantic Web technologies, and their applications to the management and processing of knowledge.

### **Postgraduate student supervision**

My PhD students:

- Antonis Bikakis (University of Crete; graduated in June 2009)
- Zhe Wang (co-supervisor; Griffith University; graduated in 2010)
- Guangyi Xiao (co-supervisor; University of Macau)

I have successfully supervised numerous Masters and Honours students. Currently I supervise five Masters students.

## **6. RESEARCH**

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### **6.1 INTERESTS**

My research interests lie mainly in the theory, implementation and application of *knowledge representation* and *semantic technologies*. Particular interests on the theoretical side include:

- Foundations of ontology languages
- Knowledge dynamics
- Nonmonotonic reasoning
- Foundations of rule-based systems
- Reasoning about context.

Particular interests on the application side include:

- Ambient intelligence
- E-Commerce: declarative business rules, electronic contracts, automated agent negotiations
- Web-based systems: Semantic Web, Web services, context-aware systems
- Applications of ontology-based systems: e-Learning, Knowledge Management, bioinformatics, cultural information systems

Recently, a major focus of my work is to apply semantic technologies in *ambient intelligence* environments. Ambient intelligence promises to deliver novel services to the right people at the right time at the right place, taking into account the context of the users. Knowledge technologies promise to play a key role in representing and exploiting contextual information.

## 6.2 PROJECTS

### Project acquisition

1995	Newcastle internal grants	\$25,000
1996 - 1997	ARC Small Grant	\$11,000
1997 - 1999	ARC Large Grant (The CIN Project)	\$184,000
1997	Griffith University research grants	\$14,000
1998	CUTSD Grant	\$49,000
1998 - 2000	ARC Large Grant (Defeasible Reasoning with Application to Regulations)	\$168,000
1998	Griffith University Infrastructure Grant (Software Quality Institute)	\$35,000
1999 – 2001	SPIRT Australian Postgraduate Award (I) Evaluating Legal Advice Systems	
	From the ARC:	\$62,000
	From industry:	\$30,000
1999 – 2001	SPIRT Australian Postdoctoral Fellowship (I) Computer Tools for Providing Legal Advice	
	From the ARC:	\$156,576
	From industry:	\$250,000
2000 – 2002	ARC Large Grant (Information and Knowledge Integration)	\$191,000
2000 – 2002	ARC IREX Grant (Research Exchange)	\$54,000
2000	ARC Infrastructure Grant	\$100,000
2004 – 2007	REVERSE : An IST Network of Excellence	Euro 36.000
2004 – 2007	DELOS II : An IST Network of Excellence	Euro 120.000
2005 – 2006	BEYOND-THE-HORIZON: A FET CA	Euro 480.000
2006 – 2008	ARC Discovery Grant (Declarative Reasoning Systems for the Semantic Web)	\$201.000
2006 – 2008	AKMWN (GSRT)	Euro 280.000
2006 – 2007	Semantic Web e-Commerce Applications Using Defeasible Reasoning (GSRT)	Euro 60.000
2007	Study for cultural information system for Ethniki Pinakothiki	Euro 50.000
2007	Study for cultural information system for Pinakothiki Averof	Euro 15.000
2010 – 2012	ARC Discovery Grant (Rule-based reasoning systems for complex and dynamic ontologies)	\$150.000
2010 – 2014	PlanetData NoE	Euro 280.000
2010 – 2014	APARSEN NoE	Euro 300.000
2011 – 2012	ARC Discovery Grant (Efficient multi-context systems for heterogeneous information reasoning and sharing)	\$210.000

### Project experience

- *Partner investigator (proposer)* of **Efficient multi-context systems for heterogeneous information reasoning and sharing** – this Australian Research Council (ARC)-funded basic research project studies the theory and applications of efficient reasoning about context (ARC Discovery Project, 2011-2013)
- *Partner representative and senior researcher* in **APARSEN** – this EU-funded Network of Excellence aims at the creation of a multi-disciplinary research community in the area of digital preservation (EU FP7 NoE, 2010-2014)

- *Activity leader (research), partner representative, and senior researcher in PlanetData* – this EU-funded Network of Excellence aims at the creation of a research community in large-scale data management through a Joint Activity Program based on research, data and infrastructure, community building activities, and education. (EU FP7 NoE, 2010-2014)
- *Partner investigator (proposer) of Rule-based reasoning systems for complex and dynamic ontologies* – this Australian Research Council (ARC)-funded basic research project studies the use of forgetting as a modularization means for a number of semantic web languages. (ARC Discovery Project, 2010-2012)
- *Senior researcher in 3D-COFORM* – this EU-funded project addresses all aspects of 3D-capture, 3D-processing, the semantics of shape, material properties, metadata and provenance, and their integration with other sources (textual and other media). The technical research program is complemented by research into practical business aspects: business models for exploitation of 3D assets, workflow planning and execution for mass digitisation, socio-economic impact assessment. (EU FP7 STREP, 2008-2012) <<http://www.3d-coform.eu>>
- *Senior researcher in KP-Lab* – this EU-funded project aims at developing theories, tools, and practical models that enhance deliberate advancement and creation of knowledge as well as transformation of knowledge practices. (EU FP6 IP, 2006-2011) <<http://www.kp-lab.org>>
- *Senior researcher in ACGT* – this EU-funded project aims at developing open-source, semantic and grid-based technologies in support of post genomic clinical trials in cancer research. It addresses clinicians, bio-researchers as well as software developers' needs, providing an open platform where novel and powerful services can be offered and used by practitioners in the field. (EU FP6 IP, 2006-2010) <<http://www.eu-acgt.org>>
- *Senior researcher in CASPAR* – this EU-funded project addresses the growing challenge facing society of a deluge of intrinsically fragile digital information, upon which it is increasingly dependent, by building a framework to support the end-to-end preservation lifecycle for scientific, artistic and cultural information, based on existing and emerging standards. (EU FP6 IP, 2006-2009) <<http://www.casparpreserves.eu>>
- *Senior researcher in the Ambient Intelligence Programme* – this is an internal project of the Institute of Computer Science, funded through GSRT excellence funds and the Institute's own resources. It constitutes a platform for cooperative research towards developing and studying Aml-related technologies, assessing their impact on the individual and the society as a whole, and demonstrating the potential, added-value and benefits of Aml technologies in different aspects of everyday life and activities. Within this programme, ISL studies the use of semantic technologies for representing such intelligent environments, and the use of advanced contextual reasoning techniques for decision making and service provision. (FORTH-ICS internal program, 2007-2010)
- *Project manager of the studies for the modelling of the cultural information for Ethniki Pinakothiki (National Gallery) and Pinakothiki Averof* – these studies were related to cultural information systems developed for these two galleries. The studies focused on conceptual modelling, and in particular how to make the information systems compliant with the CIDOC-CRM standard. (private contracts, 2007)
- *Scientific coordinator of AKMWN-ISL* – this GSRT-funded grant provided support for (a) improvement of the facilities, and hardware and software infrastructure of the Information Systems Laboratory, (b) the expansion of the Lab's expertise in semantic methods for ambient intelligence and biomedical informatics, and (c) the development of products in the cultural informatics domain, based on the Lab's already existing expertise in the area. (GSRT AKMWN, 2006-2008)
- *Partner investigator (proposer) of Declarative Reasoning Systems for the Semantic Web* – this Australian Research Council (ARC)-funded basic research project studied the combination of description logics and rule systems, as well as the idea of forgetting applied to description logics, and their use in the semantic web domain. (ARC Discovery Project, 2006-2008)
- *Scientific coordinator of Semantic Web e-Commerce Applications Using Defeasible Reasoning* – this GSRT-funded project supported the collaboration of three research groups at FORTH, University of Thessaloniki and The University of Queensland, on the development of the theory and implementation of defeasible reasoning, and its application in selected areas of e-commerce, namely brokering and bargaining. (GSRT Non-EU project, 2006-2007)

- *Scientific coordinator* of **BEYOND-THE-HORIZON** – this EU-funded project identified advanced strategic areas and grand challenges related to ICT, discussed the scientific, commercial and social importance of these challenges, drew basic research directions in ICT and related disciplines for addressing the above challenges, designed roadmaps for making advances in these areas with a timeframe of fifteen years, and identified new frontiers for ICT basic research, and boundaries between 'pure ICT' research and other disciplines as well as the potential for cross-fertilization of research in disciplines involved in these areas. (EU FP6 CA, 2005-2006)
- *Partner representative, WP deputy leader and senior researcher* in **REVERSE** – this EU-funded Network of Excellence studied reasoning on the Web with rules and semantics, and brought together partners in the areas of semantic web and rule-based knowledge representation. (EU FP6 NoE, 2004-2008) <<http://www.reverse.net>>
- *Senior researcher* in **DELOS** – this EU-funded Network of Excellence brought together the major European teams working on digital libraries with the objective to (a) define unifying and comprehensive theories and frameworks over the life-cycle of digital library information, and (b) build interoperable multimodal/multilingual services and integrated content management ranging from the personal to the global for the specialist and the general population. (EU FP6, 2004-2007) <<http://www.delos.info>>
- *Senior researcher* in **CRINO** – The aims of this project, from the ICT side, were the systematic recording of Byzantine wall paintings founded in the churches of Crete, and the systematic documentation of their current state and their risks in a knowledge system, integrated with a GIS and CAD system. (Hellenic Ministry of Culture, 2004-2006)
- *Senior researcher* in **DIAVATIS** – the aim of this Greek General Secretariat for Research and Technology (GSRT)-funded R&D project was to create an interactive information system for managing and promoting the cultural heritage and natural environment of the Greek islands, for the promotion of tourism in Greece. Its main deliverable provides travel agents and individual visitors with all the relevant information they might require when they develop their travel plan with regard to visits to sites of interest, access to historic monuments, landscapes and various routes. (GSRT, 2003-2005)
- *Scientific coordinator* of **A National Distributed Facility for Logic- and Constraint-Based Software Tools** – this ARC-funded project collected a number of existing reasoning and constraint solving tools, and made them available to selected leading Australian research groups in these fields. (ARC Infrastructure Grant, 2000)
- *Scientific coordinator* of **Theory, Implementation and Application of Defeasible and Default Reasoning** – this ARC-funded project supported the research exchange and collaboration between the Griffith University group working on defeasible reasoning, and the University of Leipzig group working on default logics and answer-set programming. (ARC Research Exchange Grant, 2000-2002)
- *Chief investigator (proposer)* of **Information and Knowledge Integration** – this ARC-funded basic research project studied the use of logic-based knowledge representation methods for knowledge integration. (ARC Large Research Grant, 2000-2002)
- *Chief investigator (proposer)* of **Computer Tools for Providing Legal Advice** – this industry collaborative project, co-funded by industry and the ARC, studied the use of artificial intelligence techniques in tools for providing legal advice regarding divorce settlements. (ARC SPIRT Grant, 1999-2001)
- *Chief investigator (proposer)* of **Evaluating Legal Advice Systems** – this industry collaborative project, co-funded by industry and the ARC, provided a thorough evaluation of AI-based tools for providing legal advice regarding divorce settlements. (ARC SPIRT APA(I) Grant, 1999-2001)
- *Proposer* for **University Infrastructure Grant (Software Quality Institute)** – this grant improved the hardware and software infrastructure of the Software Quality Institute. (Griffith University, 1998)
- *Chief investigator (proposer)* of **Defeasible Reasoning with Application to Regulations** – this ARC-funded basic research project studied the proof theory, semantic foundations, and computational issues of defeasible logics, and their potential use in modelling regulations and business rules. (ARC Large Research Grant, 1998-2000)

- *Chief investigator (proposer) of Reasoning with Incomplete and Changing Information* – this ARC-funded basic research project studied the use of default logics, belief revision, and their combination, for addressing a number of reasoning tasks related to changing and incomplete information. (ARC Large Research Grant, 1997-1999)

## 6.3 PUBLICATIONS

### Citations

According to Publish or Perish: h-index 29 (on June 10, 2011)

### Books

1. *Defeasible Logic: A Practical Approach to Nonmonotonic Reasoning*. Springer 2012 (with G. Governatori, A. Rotolo and N. Bassiliades; in preparation)
2. **A Semantic Web Primer**. MIT Press 2004 (with F. van Harmelen); 2nd ed. 2008. *It's the internationally leading textbook on the semantic web. It has attracted over 950 citations, and has been or is being translated to Japanese, Chinese, Korean, Spanish and Greek. A 3<sup>rd</sup> edition is under preparation.*
3. **Nonmonotonic Reasoning**. MIT Press 1997
4. **Logic: A Foundation for Computer Science**. Addison-Wesley 1991 (with V. Sperschneider)
5. *Turbo Prolog*, Data Becker 1986

### Edited books

1. ESWC 2011 Workshop Proceedings. LNCS 7117, Springer 2012 (with R. Garcia-Castro and D. Fensel)
2. Proceedings of ESWC 2011. LNCS 6643 & 6644, Springer 2011 (with M. Grobelnik, E. Simperl, B. Parsia, D. Plexousakis, P. De Leenheer and J. Pan)
3. Proceedings of ESWC 2010. LNCS 6088 & 6089, Springer 2010 (with L. Aroyo, E. Hyvonen, A. ten Teije, H. Stuckenschmidt, L. Cabral and T. Tudorache)
4. *Reasoning Web*. LNCS 4636, Springer 2007 (with U. Assmann, C. Baroglio, S. Decker, N. Henze, P. Patranjan and T. Tolksdorf)
5. *Advances in Artificial Intelligence*, Proc. 4th Hellenic Conference on AI, SETN 2006. LNAI 3955, Springer 2006 (with G. Potamias, C. Spyropoulos and D. Plexousakis)
6. *Rules and Rule Markup Languages for the Semantic Web: Third International Workshop (RuleML'2004)*, LNCS 3323 Springer 2004 (with H. Boley)
7. *Learning and Reasoning with Complex Representations*, LNAI 1359, Springer 1998 (with A. Ghose and M. Truszczynski)
8. *Proceedings of the 11th Australian Joint Conference on Artificial Intelligence*, LNAI 1502, Springer 1998 (with J. Slaney)
9. *Verification & Validation of Knowledge-Based Systems*. WS-97-01, AAAI Press 1997

### Refereed book chapters

1. Semantic Web. In *Encyclopedia of Database Systems*, Springer 2009, 2579-2583 (with D. Plexousakis)
2. Visual Development of Defeasible Logic Rules for the Semantic Web. In F. Ferri (Ed.): *Visual Languages for Interactive Computing: Definitions and Formalizations*, Idea Group Publishing 2007, 273-301 (with E. Kontopoulos and N. Bassiliades)
3. Web Ontology Languages. In J. Cardoso (ed): *Semantic Web Services: Theory, Tools and Applications*. IDEA Group 2006, 96-109 (with M. Doerr)

4. Rule-Based Policy Specification. In T. Yu and S. Jajodia (eds): *Secure Data Management in Decentralized Systems*, Springer 2007 (with M. Baldoni, P.A. Bonatti, W. Nejdl and D. Olmedilla)
5. Default Logic. In D. Gabbay and J. Woods (eds): *Handbook of the History of Logic, Vol. 7*. Elsevier 2005 (with K. Wang; invited)
6. Introduction to Semantic Web Ontology Languages. In *ReasoningWeb*, LNCS 3564, Springer 2005, 1-21 (with E. Franconi and F. van Harmelen)
7. Semantic Web: Key Ideas. In *Encyclopedia of Information Science and Technology*, Information Resources Management Association Press 2005 (with V. Christophides and D. Plexousakis)
8. Web Ontology Language: OWL. In S. Staab and R. Studer (eds). *Handbook of Ontologies in Information Systems*. Springer 2003
9. Modelling Business Rules Using Defeasible Logic. In K. van Slooten (ed): *Optimal Information Modeling Techniques*, IRM Press 2002, 128-136 (with M. Arief)
10. Reasoning on Incomplete and Changing Information - A Tutorial. In G. Antoniou, A. Ghose, and M. Truszczynski (Eds.): *Learning and Reasoning with Complex Representations*, Springer LNAI 1359, 9-43 (with M.A. Williams)
11. Modules and Verification. In C. Rattray and R.G. Clark: *The Computation Laboratory*. Oxford University Press 1992, 353-366

#### **Refereed journal articles**

1. DEAL: A Distributed Authorization Language for Ambient Intelligence. *International Journal of Ambient Computing and Intelligence* (with I. Genitsaridi and A. Bikakis; accepted)
2. **MWeb: a Principled Framework for Modular Web Rule Bases and its Semantics. *ACM Transactions on Computational Logic* 12, 2 (2011) (with A. Analyti and C. Damasio)**
3. A Modal Defeasible Reasoner of Deontic Logic for the Semantic Web. *International Journal of Semantic Web and Information Systems* 7,1 (2011): 18-43 (with E. Kontopoulos, N. Bassiliades and G. Governatori)
4. Visualizing Semantic Web proofs of defeasible logic in the DR-DEVICE system. *Knowledge-Based Systems* 24,3 (2011): 406-419 (with E. Kontopoulos and N. Bassiliades)
5. Strategies for Contextual Reasoning with Conflicts in Ambient Intelligence. *Knowledge and Information Systems* 27, (2011): 45-84 (with A. Bikakis and P. Hassapis)
6. **Defeasible Contextual Reasoning with Arguments in Ambient Intelligence. *IEEE Transactions on Knowledge and Data Engineering* 22,11 (2010): 1492-1506 (with A. Bikakis)**
7. **An Inclusion Theorem for Defeasible Logic. *ACM Transactions on Computational Logic* 12,1 (2010) (with D. Billington, G. Governatori and M.J. Maher)**
8. **Contextual Defeasible Logic and its Application to Ambient Intelligence. *IEEE Transactions on Systems, Man and Cybernetics - Part A* 41,4 (2011): 705-716 (with A. Bikakis)**
9. The ramification problem in temporal databases: concurrence execution. *International Journal of Intelligent Systems* 25, 4 (2010): 287-325 (with N. Papadakis and D. Plexousakis)
10. Design and Implementation of a Semantics-based Contextual Navigation Guide for Indoor Environments. *Journal of Ambient Intelligence and Smart Environments* 1,3 (2009): 261-285 (with M. Nikoloudakis, M. Kristotakis, M. Michou, A. Bikakis, T. Patkos and D. Plexousakis)

11. Design and Challenges of a Semantics-based Framework for Context-Aware Services. *International Journal of Reasoning-based Intelligent Systems* 1, 1/2 (2009): 18-30 (with A. Bikakis, T. Patkos, M. Papadopoulou and D. Plexousakis)
12. A Modal and Deontic Defeasible Reasoning System for Modelling Policies and Multi-Agent Systems. *Expert Systems with Applications* 36, 2,2 (2009): 4125-4134 (with N. Dimareisis and G. Governatori)
13. A Tool for Addressing the Ramification Problem in Temporal Databases. *International Journal On Artificial Intelligence Tools* 18,4 (2009): 589-601 (with N. Papadakis, D. Plexousakis, M. Papadakis and K. Boutsika)
14. Visual Modeling of Defeasible Logic Rules with DR-VisMo. *International Journal of Artificial Intelligence Tools* 17,5 (2008): 903-924 (with E. Kontopoulos and N. Bassiliades)
15. Deploying Defeasible Logic Rule Bases for the Semantic Web. *Data and Knowledge Engineering* 66,1 (2008): 116-146 (with E. Kontopoulos and N. Bassiliades)
16. **Extended RDF as a Semantic Foundation of Rule Markup Languages. *Journal of Artificial Intelligence Research* 32 (2008): 37-94 (with A. Analyti, C. Damasio and G. Wagner)**
17. Proof Explanation for a Nonmonotonic Proof Explanation for a Nonmonotonic Semantic Web Rules Language. *Data and Knowledge Engineering* 64, 3 (2008): 662-687 (with N. Dimareisis, A. Bikakis, G. Governatori et al.)
18. Ontology change: classification and survey. *Knowledge Engineering Review* 23,2 (2008): 117-152 (with G. Flouris, D. Manakanatas, H. Kondylakis and D. Plexousakis)
19. A Context-Aware Meeting Alert Using Semantic Web and Rule Technology. *International Journal of Metadata, Semantics and Ontologies* 2,3 (2007): 147-156 (with A. Bikakis, A. Karamolegou, N. Papachristodoulou and M. Stratakis)
20. DR-BROKERING: A semantic brokering system. *Knowledge-Based Systems* 20,1 (2007): 61-72 (with T. Skylogiannis, A. Bikakis, M. Doerr and N. Bassiliades)
21. DR-NEGOTIATE – A System for Automated Agent Negotiation with Defeasible Logic-Based Strategies. *Data and Knowledge Engineering* 63,2 (2007): 362-380 (with T. Skylogiannis, N. Bassiliades, G. Governatori and A. Bikakis)
22. **DR-Prolog: A System for Defeasible Reasoning with Rules and Ontologies on the Semantic Web. *IEEE Transactions on Knowledge and Data Engineering* 19,2 (2007): 233-245 (with A. Bikakis)**
23. Challenges and Principles in Teaching Semantic Web Technologies. *International Journal of Teaching and Case Studies* 1,4 (2009): 275-282 (with M. Doerr)
24. **Embedding Defeasible Logic into Logic Programming. *Theory and Practice of Logic Programming* 6,6 (2006): 703-735 (with D. Billington, G. Governatori and M. Maher)**
25. Qualified Ramifications for Temporal Databases: Changing Beliefs About the Past. *Knowledge and Data Engineering* 59, 2 (2006): 397-434 (with D. Papadakis and D. Plexousakis)
26. Defeasible reasoning: a discussion of some intuitions. *International Journal of Intelligent Systems* 21,6 (2006): 545-558
27. **A Defeasible Logic Reasoner for the Semantic Web. *International Journal on Semantic Web and Information Systems* 2,1 (2006): 1-41 (with N. Bassiliades and I. Vlahavas)**
28. Towards a General Web Rule Language. *International Journal of Web Engineering and Technology* 2, 2/3 (2005): 181-206 (with G. Wagner and C.V. Damasio)

29. A Semantic Brokering System for the Tourism Domain. *Information Technology & Tourism* 7, 3-4 (2005) (with T. Skylogiannis, A. Bikakis and N. Bassiliades)
30. Reasoning Methods for Personalization on the Semantic Web. *Annals of Mathematics, Computing & Teleinformatics* 2,1 (2004): 1-24 (with Baldoni, Baroglio, Patti et al.)
31. Negation and Negative Information in the W3C Resource Description Framework. In *Annals of Mathematics, Computing and Teleinformatics* 2,1 (2004): 25-34 (with A. Analyti, C.V. Damasio and G. Wagner)
32. Elements of a First Visual Rule Language for the Semantic Web. *AIS SIGSEMIS Bulletin* 1,3 (2004): 40-42 (with M. Berndtsson, S. Spreeuwenberg, K. Taveter and G. Wagner)
33. **Argumentation Semantics for Defeasible Logics. *Journal of Logic and Computation* 14,5 (2004): 675-702 (with M.J. Maher, G. Governatori and D. Billington)**
34. Defeasible Logic with Dynamic Priorities. *International Journal of Intelligent Systems* 19,5 (2004): 463-472
35. Nonmonotonic Rules for the Semantic Web. *KI* 3 (2003): 16-21
36. On the Dynamics of Default Reasoning. *International Journal of Intelligent Systems* 17,12 (2002): 1143-1155
37. Efficient Defeasible Reasoning Systems. *International Journal of Tools with Artificial Intelligence* 10,4 (2001): 483-501. (with A. Rock, M. Maher and D. Billington)
38. **Representation Results for Defeasible Logic. *ACM Transactions on Computational Logic* 2,2 (2001): 255-287 (with D. Billington, G. Governatori and M. Maher)**
39. Executable Declarative Business Rules and Their Use in Electronic Commerce. *International Journal of Intelligent Systems in Accounting, Finance and Management* 10,4 (2001): 211-223 (with M. Arief)
40. A note on the refinement of ontologies. *International Journal of Intelligent Systems* 15,7 (2000): 623-632 (with A. Kehagias)
41. **Defeasible Logic versus Logic Programming without Negation as Failure. *Journal of Logic Programming* 41,1 (2000): 45-57 (with M. Maher and D. Billington)**
42. Conservative extension concepts for nonmonotonic knowledge bases. *International Journal of Intelligent Systems* 15,9 (2000): 859-877 (with C.K. MacNish)
43. A Note on the Refinement of Nonmonotonic Knowledge Bases. *Knowledge and Information Systems* 2,4 (2000): 479-486 (with C.K. MacNish and N. Foo)
44. **A Tutorial on Default Logics. *ACM Computing Surveys* 31,4 (1999): 337-359**
45. **Splitting default theories: A comparison of two approaches. *Journal of Logic, Language and Information* 8,2 (1999): 205-216**
46. Connection between default logic and partial constraint satisfaction. *Information Sciences* 117 (1999): 177-190 (with A. Ghose, R. Goebel and A. Sattar)
47. A Tutorial on Default Reasoning. *Knowledge Engineering Review* 13,3 (1998): 225-246 (invited)
48. The role of nonmonotonic representations in requirements engineering. *International Journal of Software Engineering and Knowledge Engineering* 8,3 (1998): 385-399
49. Studying properties of classes of default logics. *Journal of Experimental and Theoretical Artificial Intelligence* 10,4 (1998): 495-505 (with T. O'Neill and J. Thurbon)
50. Operational Concepts of Nonmonotonic Logics - Part 2: Autoepistemic Logic. *Artificial Intelligence Review* 12,6 (1998): 431-443 (with V. Sperschneider)

51. A Note on the Cumulativity of Justified Default Logic. *Journal of Experimental and Theoretical Artificial Intelligence* 10,4 (1998): 507-509
52. Stratification for default logic variants. *International Journal of Intelligent Systems* 13,9 (1998): 785-799
53. Verification and validation of Knowledge-Based Systems - Report on two 1997 events. *AI Magazine* Fall 1998, 123-126 (with F. van Harmelen, R. Plant and J. Vanthienen)
54. A correct logic programming computation of default logic extensions. *Journal of Automated Reasoning* 18,1 (1997): 25-46 (with E. Langetepe)
55. Verification and Correctness Issues for Nonmonotonic Knowledge Bases. *International Journal of Intelligent Systems* 12,10 (1997): 725-738
56. A new methodology for teaching default reasoning. *Bulletin of the ACM SIG on Computer Science Education* 29,2 (1997): 35-38
57. Reasoning with Incomplete and Changing Information: The CIN Project. *Information Sciences* 99, 1&2 (1997): 83-99 (with M.A. Williams)
58. Logical Methods for Computational Intelligence. *Knowledge Engineering Review* 12, 3 (1997): 1-3 (with N.V. Murray; invited)
59. Integrity and rule checking in nonmonotonic knowledge bases. *Knowledge-Based Systems* 9 (1996): 301-306
60. Restriction and expansion concepts for default logic. *Journal of Computing and Information* 3,1 (1996): 640-652 (special issue devoted to ICCI'96; with C.K. MacNish and N. Foo)
61. Operational characterization of extensions in some logics for default reasoning. *Information Sciences* 89,3-4 (1996): 261-273
62. A Note on the Use of Lemmas in Default Logic. *Journal of Computing and Information* 3,1 (1996): 653-663 (special issue devoted to ICCI'96)
63. Structuring methods for nonmonotonic knowledge. *CC-AI (The Journal for the Integrated Study of Artificial Intelligence, Cognitive Science and Applied Epistemology)* 13,1 (1996): 13-30
64. On the Verification of Modular Logical Knowledge Bases. *Journal of Expert Systems with Applications* 8,3 (1995): 351-357 (with V. Sperschneider)
65. Abstract properties for the choice provability relation in nonmonotonic logics. *CC-AI* 12,3 (1995): 253-262
66. **The Verification of Modules. *Formal Aspects of Computing* 6 (1994): 223-244**
67. Modularity and Correctness for Logic Programs and Knowledge Bases. *Journal of Software Engineering and Knowledge Engineering* 4,2 (1994): 257-275
68. New proofs in default logic theory. *Annals of Mathematics and Artificial Intelligence* 12 (1994): 215-229 (with E. Langetepe and V. Sperschneider)
69. Logic Programming and Default Logic. *International Journal of Artificial Intelligence Tools* 3,3 (1994): 367-373
70. Applying SLD-resolution to a Class of Non-Horn Logic Programs. *Journal of the Interest Group of Pure and Applied Logics* 2,2 (1994): 229-241 (with E. Langetepe)
71. Operational Concepts of Nonmonotonic Logics - Part 1: Default Logic. *Artificial Intelligence Review* 8 (1994): 3-16 (with V. Sperschneider)
72. Structuring and Modules for Knowledge Bases: Motivation for a new model. *Knowledge-Based Systems* 7,1 (1994): 49-51 (with I. Wachsmuth)
73. Version space algorithms on hierarchies with exceptions. *CC-AI* 10,4 (1993): 311-326

## Refereed conference and workshop papers

1. Towards Parallel Nonmonotonic Reasoning with Billions of Facts. In Proc. *13<sup>th</sup> International Conference on Principles of Knowledge Representation and Reasoning (KR 2012)* (with I. Tahmazidis, G. Flouris and S. Lotoulas; accepted)
2. Forgetting for Defeasible Logic. In Proc. *18th International Conference on Logic for Programming, Artificial Intelligence and Reasoning (LPAR-18)*, LNCS XXXX, Springer 2012 (with T. Eiter and K. Wang; accepted)
3. S-CRETA: Smart Classroom Real-Time Assistance. In Proc. *3rd International Symposium on Ambient Intelligence (ISAmI 2012)*, Springer 2012 (with V. Efthymiou, M. Koutraki and Y. Hrisakis; accepted)
4. **Reasoning and Proofing Services for Semantic Web Agents. In Proc. IJCAI -11, MIT press 2011, 2662-2667 (with K. Kravari, K. Papatheodorou and N. Bassiliades)**
5. **Using Constraint Optimization for Conflict Resolution and Detail Control in Activity Recognition. In Proc. Aml-11, LNCS XXXX, Springer 2011 (with H. Filipaki and I. Tsamardinou; accepted)**
6. Partial Preferences and Ambiguity Resolution in Contextual Defeasible Argumentation. In Proc. LPNMR 2011. LNCS 6645, Springer 2011, 193-198 (with A. Bikakis; accepted)
7. Evolution of Ontologies using ASP. In Proc. *ICLP 2011 (Technical Communications)*: 16-27 (with M. Ostrowski, G. Flouris, and T. Schaub)
8. Rule-Based Activity Recognition in Ambient Intelligence (**invited**). In Proc. *RuleML 2011 – Europe*, LNCS 6826, Springer 2011, 1
9. Extending a Multi-agent Reasoning Interoperability Framework with Services for the Semantic Web Logic and Proof Layers. In Proc. *RuleML 2011 – Europe*, LNCS 6826, Springer 2011, 29-43 (with K. Kravari, K. Papatheodorou and N. Bassiliades)
10. Modularity in the Rule Interchange Format. In Proc. *RuleML 2011 – Europe*, LNCS 6826, Springer 2011, 313-328 (with C.V. Damasio and A. Analyti)
11. **Reasoning about Context in Ambient Intelligence Environments: A Report from the Field. In Proc. 12th International Conference on the Principles of Knowledge Representation and Reasoning (KR 2010). AAAI Press 2010 (with C. Papatheodorou and A. Bikakis)**
12. **Modular ERDF ontologies. In Proc. 19th European Conference on Artificial Intelligence (ECAI 2010). IOS Press 2010, 1083-1084 (with C. Damasio and A. Analyti)**
13. On the Deployment of Contextual Reasoning in Ambient Intelligence Environments. In Proc. *6th International Conference on Intelligent Environments (IE'10)*. (with C. Papatheodorou and A. Bikakis)
14. Reasoning with Imperfect Context and Preference Information in Multi-Context Systems. In Proc. 14th East-European Conference on Advances in Databases and Information Systems (ADBIS 2010), LNCS 6295, Springer 2010 (with A. Bikakis and C. Papatheodorou; **invited**)
15. Embeddings of Simple Modular Extended RDF. In Proc. *4th International Conference on Web Reasoning and Rule Systems (RR 2010)*, LNCS 6333, Springer 2010, 204-212 (with A. Analyti and C. Damasio)
16. Controlling Access to RDF Graphs. In Proc. *3rd Future Internet Symposium*, LNCS 6369, Springer 2010, 107-117 (with I. Fundulaki, G. Flouris and M. Michou)
17. Antonis Bikakis, Grigoris Antoniou: Rule-Based Contextual Reasoning in Ambient Intelligence. In Proc. *RuleML 2010*. LNCS 6403, Springer 2010: 74-88 (with A. Bikakis)

18. Task-based Dependency Management for the Preservation of Digital Objects using Rules. In *Proc. SETN 2010*, LNAI 6040, Springer 2010, 265-274 (with Y. Marketakis and Y. Tzitzikas)
19. A Reasoning Framework for Ambient Intelligence. In *Proc. SETN 2010*, LNAI 6040, Springer 2010, 213-222 (with T. Patkos, D. Plexousakis, I. Chrysakis and A. Bikakis)
20. FleXConf: A Flexible Conference Assistant using Context-Aware Notification Services. In *Proc. 5th International Workshop on Context Aware Mobile Systems (CAMS 2009)*. LNCS 5872, Springer 2009, 108-117 (with N. Armenatzoglou, Y. Marketakis, L. Kriara, E. Apostolopoulos, V. Papavasiliou, D. Kampas, A. Bikakis, A. Kapravelos, E. Kartsonakis, G. Linardakis and S. Nikitaki)
21. **Concept and Role Forgetting in ALC Ontologies. In *Proc. 2009 International Semantic Web Conference (ISWC-2009)*. LNCS 5823, Springer 2009, 666-681 (with Z. Wang, K. Wang, R. Topor and J. Pan)**
22. A Formal Theory for Modular ERDF Ontologies. In *Proc. 3rd International Conference on Web Reasoning and Rule Systems (RR 2009)*. LNCS 5837, Springer 2009, 212-226 (with A. Analyti and C.V. Damasio)
23. **Argumentation about Context in Ambient Intelligence. In *Proc. 10th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR'09)*. LNAI 5753, Springer 2009, 30-43 (with A. Bikakis)**
24. Uniform Interpolation for ALC Revisited. In *Proc 22nd Australasian Joint Conference on Artificial Intelligence (AI'09)*. LNCS 5866, Springer 2009, 528-537 (with Z. Wang, K. Wang, R. Topor and J. Pan)
25. AlertMe: A Semantics-based Context-Aware Notification System. In *Proc. 2nd IEEE International Workshop on Software Engineering for Context Aware Systems and Applications (SECASA 2009)*. In *Proc. COMPSAC 2009*, IEEE Press 2009, 200-205 (with A. Leonidis, G. Baryannis, X. Fafoutis, M. Korozi, N. Gazoni, M. Dimitriou, M. Koutsogiannaki, A. Boutsika, M. Papadakis, H. Papagiannakis, G. Tesseris, E. Voskakis and A. Bikakis)
26. Exploiting Semantics for Indoor Navigation and User-Tracking. In *Proc. 2009 International Symposium on UbiCom Frontiers - Innovative Research, Systems and Technologies (UFirst 2009)*. IEEE Press 2009 (with M. Kritsotakis, E. Nikoloudakis, A. Bikakis, T. Patkos and Dimitris Plexousakis; accepted)
27. Alternative Strategies for Conflict Resolution in Multi-Context Systems. In *Proc. 5th IFIP Conference on Artificial Intelligence Applications & Innovations (AIAI 2009)*. IFIP 2009 (with A. Bikakis; accepted)
28. Extending a Defeasible Reasoner with Modal and Deontic Logic Operators. In *Proc. Proc. Workshop on Logics for Intelligent Agents and Multi-Agent Systems (WLIAMAS 2008) at 2008 IEEE/WIC/ACM International Conference on Web Intelligence and Intelligent Agent Technology*, IEEE Press 2008, 626-629 (with E. Kontopoulos, N. Bassiliades and G. Governatori)
29. **C-NGINE: A Contextual Navigation Guide for Indoor Environments. In *Proc. 2nd European Conference on Ambient Intelligence (Aml-08)*, LNCS 5355, Springer 2008, 258-275 (with M. Kritsotakis, M. Michou, A. Bikakis, T. Patkos and D. Plexousakis)**
30. **Distributed Defeasible Contextual Reasoning in Ambient Computing. In *Proc. 2nd European Conference on Ambient Intelligence (Aml-08)*, LNCS 5355, Springer 2008, 308-325 (with A. Bikakis)**
31. On the Computability and Complexity of Extended RDF. In *Proc. PRICAI'08*, LNCS 5351, Springer 2008, 5-16 (with A. Analyti, C. Damasio and G. Wagner)
32. A Semantics-based User Model for the Support of Personalized, Context-Aware Navigational Services. In *Proc. BHCI Workshop on Ontologies and Interactive Systems (ONTORACT'2008)* IEEE Press 2008 (with M. Michou, A. Bikakis, T. Patkos and D. Plexousakis; accepted)
33. Visualization of Proofs in Defeasible Logic. In *Proc. RuleML'2008*, LNCS 5321, Springer 2008, 197-210 (with I. Avguleas, K. Gkirtzou, S. Triantafilou, A. Bikakis, E. Kontopoulos and N. Bassiliades)

34. Local and Distributed Defeasible Reasoning in Multi-Context Systems. In *Proc. RuleML'2008*, LNCS 5321, Springer 2008, 135-149 (with A. Bikakis)
35. On RDF/S Ontology Evolution. In *Proc. VLDB Workshop on Semantic Web, Ontologies and Databases*, LNCS 5005, Springer 2008, 21-42 (with G. Konstantinidis, G. Flouris and V. Christophides)
36. Reasoning on the Web with Open and Closed Predicates. In *Proc. 3<sup>rd</sup> International Workshop on Applications of Logic Programming on the (Semantic) Web and Web Services*. CEUR Proceedings Vol-434. (with G. Wagner, A. Giurcia, I. Diaconescu, A. Analyti and C. Damasio)
37. Alternative Strategies for Contextual Reasoning with Conflicts in Ambient Computing. In *Proc. The Second International Conference on Web Reasoning and Rule Systems (RR 2008)*, LNCS 5341, Springer 2008, 234-235 (with A. Bikakis)
38. Distributed Defeasible Reasoning in Multi-Context Systems. In *Proc. NMR'2008* (with A. Bikakis)
39. A multi-agent environment for serving Proof Explanations in the Semantic Web. In *Proc. 5th Hellenic Conference on Artificial Intelligence (SETN'08)*, LNAI 5138, Springer 2008, 26-37 (with A. Bikakis, P. Damianakis, M. Foukarakis, G. Iacovidis, M. Karmazh, H. Kondylakis, A. Makridakis, G. Nikiforos, G. Papadourakis)
40. The DR-Prolog Tool Suite for Defeasible Reasoning and Proof Explanation in the Semantic Web. In *Proc. 5th Hellenic Conference on Artificial Intelligence Intelligence (SETN'08)*, LNAI 5138, Springer 2008, 345-351 (with A. Bikakis and C. Papatheodorou)
41. Distributed Reasoning with Conflicts in a Multi-Context Framework. In *Proc. First International Conference on Advanced Intelligence (ICAI-08)* (with A. Bikakis)
42. A Survey of Semantics-Based Approaches for Context Reasoning in Ambient Intelligence. In *Constructing Ambient Intelligence - Aml-07 Workshops*, Communications in Computer and Information Science 11, Springer 2008, 14-23 (with A. Bikakis, T. Patkos and D. Plexousakis)
43. Distributed Reasoning weith Conflicts in an Ambient Peer-to-Peer Setting. In *Constructing Ambient Intelligence - Aml-07 Workshops*, Communications in Computer and Information Science 11, Springer 2008, 24-33 (with A. Bikakis)
44. Answering an Inquiry from Heterogeneous Contexts. In *Proc. 2008 IEEE International Conference on Electronic Business Engineering (ICEBE'08)*, IEEE Press 2008, 113-120 (with J. Guo, Z. Hu and C.K. Chan; accepted)
- 45. A Principled Framework for Modular Web Rule Bases and its Semantics. In Proc. KR-08, 390-400 (with A. Analyti and C. Damasio)**
46. Distributed Reasoning with Conflicts in a Multi-Context Framework. In *Proc. AAAI-08*, 1778-1779 (with A. Bikakis)
47. Computability and Complexity Issues of Extended RDF. In *Proc. ECAI-08*, 733-734 (with A. Analyti, C. Damasio and G. Wagner)
- 48. A Formal Approach for RDF/S Ontology Evolution. In Proc. ECAI-08, 70-74 (with G. Konstantinidis, G. Flouris and V. Christophides)**
49. The Ramification Problem in Temporal Databases:. In *Proc. 17th International Symposium on Methodologies for Intelligent Systems (ISMIS'08)*, LNCS 4994, Springer 2008, 381-388 (with N. Papadakis and D. Plexousakis)
50. A System for Modal and Deontic Defeasible Reasoning. In *Proc. 23rd Annual ACM Symposium on Applied Computing (SAC'08)*, ACM Press 2008, 2261-2265 (with N. Dimareisis and G. Goernatori)

51. A System for Modal and Deontic Defeasible Reasoning. In *Proc. 12th Australian Joint Conference on Artificial Intelligence (AI'07)*, LNAI 4830, Springer 2007, 609-613 (with N. Dimarisis and G. Governatori)
52. Proof Explanation for the Semantic Web Using Defeasible Logic. In *Proc. International Conference on Knowledge Science, Engineering and Management (KSEM'2007)*, LNCS 4798, Springer 2007, 186-197 (with N. Dimarisis, A. Bikakis, G. Governatori et al.)
53. A(m)!: Challenges Raised by the Integrations of the Two Fields. In *Proc. European Conference on Ambient Intelligence (Aml-07)*, LNCS 4794, Springer 2007, 159-176 (with T. Patkos, A. Bikakis, D. Plexousakis and M. Papadopouli)
54. Visual Stratification of Defeasible Logic Rule Bases. In *Proc. 19th IEEE International Conference on Tools with Artificial Intelligence (ICTAI'07)*, 238-245 (with E. Kontopoulos and N. Bassiliades)
55. The Ramification Problem in Temporal Databases: Concurrent Execution with Conflicting Constraints. In *Proc. 19th IEEE International Conference on Tools with Artificial Intelligence (ICTAI'07)*, 274-278 (with N. Papadakis and D. Plexousakis)
56. Proof Explanation in the DR-DEVICE System. In *Proc. 1st International Conference on Web Reasoning and Rule Systems*, LNCS 4524, Springer 2007, 249-258 (with N. Bassiliades and G. Governatori)
57. A Visualization Algorithm for Defeasible Logic Rule Bases over RDF Data. In *Proc. 1st International Conference on Web Reasoning and Rule Systems*, LNCS 4524, Springer 2007, 367-369 (with N. Bassiliades and E. Kontopoulos)
58. A Semantics-based Framework for Context-Aware Services: Lessons Learned and Challenges Authors. In *Proc. 4th International Conference on Ubiquitous Intelligence and Computing (UIC-07)*, LNCS 4611, Springer 2007, 839-848 (with T. Patkos, A. Bikakis, M. Papadopouli and D. Plexousakis)
59. Implementing Modal Extensions of Defeasible Logic for the Semantic Web. In *Proc. AAAI 2007*, AAAI Press 2007, 1848-1849 (with N. Dimarisis)
60. Visualizing Defeasible Logic Rules for the Semantic Web. In *Proc. 1st Asian Semantic Web Conference (ASWC'06)*, LNCS 4185, Springer 2006, 278-292 (with E. Kontopoulos and N. Bassiliades)
- 61. On Generalizing the AGM Postulates. In Proc. 3rd European Starting AI Researcher Symposium (STAIRS-2006), IOS Press 2006 (with G. Flouris and D. Plexousakis)**
62. Supporting Open and Closed World Reasoning on the Web. In *Proc. Principles and Practice of Semantic Web Reasoning (PPSWR'06)*, LNCS 4187, Springer 2006, 149-163 (with C.V. Damasio, A. Analyti and G. Wagner)
63. Evolving Ontology Evolution. In *Proc. 32nd Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM'06)*, LNCS 3831, Springer 2006, 14-29 (with G. Flouris and D. Plexousakis)
64. Merging and aligning ontologies in dl-programs. In *Proc. 1st International Conference on Rules and Rule Markup Languages (RuleML'05)*. LNCS 3791, Springer 2005, 160-171 (with K. Wang, R. Topor and A. Sattar)
65. A Visual Environment for Developing Defeasible Rule Bases for the Semantic Web. In *Proc. 1st International Conference on Rules and Rule Markup Languages (RuleML'05)*. LNCS 3791, Springer 2005, 172-186 (with N. Bassiliades and E. Kontopoulos)
- 66. Stable Model Theory for Extended RDF Ontologies. In Proc. 4th International Semantic Web Conference. LNCS 3729, Springer 2005, 21-36 (with A. Analyti, C.V. Damasio and G. Wagner)**
67. On Applying the AGM Theory to DLs and OWL. In *Proc. 4th International Semantic Web Conference*. LNCS 3729, Springer 2005, 216-231 (with G. Flouris and D. Plexousakis)

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