

Curriculum Vitae of Antonis Bikakis

Personal Information	
Date of Birth	26/5/1978
Place of Birth	Heraklion, Crete, Greece
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Work Information
Lecturer in Computing and Information Science, Department of Information Studies, University College London (since September 2011)

Research Interests
Knowledge Representation Non-monotonic Reasoning Contextual Reasoning Defeasible Argumentation Semantic Web Ambient Intelligence

Education
B. Sc. in Electrical and Computer Engineering, Aristotle University of Thessaloniki (1996-2002) Thesis: Web Site Log File Analysis Supervisor: Professor Gerasimos Strintzis
M. Sc. in Computer Science, University of Crete (2002-2004) Scientific Areas: Information Systems, Parallel and Distributed Systems Thesis: A System for Nonmonotonic Rules on the Web Supervisor: Professor Grigoris Antoniou
Ph.D. in Computer Science, University of Crete (2005-2009) Thesis: Defeasible Contextual Reasoning in Ambient Intelligence Supervisor: Professor Grigoris Antoniou

Scholarships
Scholarship from the Computer Science Department of University of Crete (2003-2004)

Scholarship from the Institute of Computer Science of FORTH (2002-2003, 2004-2009)
Manasaki Graduate Scholarship for Excellence in Graduate Studies. University of Crete (2007-2008)
ERCIM “Allain Bensoussan” Fellowship (2010-2011)

Research Activities

Practical Training in the Telecommunications Department of Siemens in Budapest (2000)
Go-Online Programme. Web Site Log File Analysis for the Go-Online Web Site. Implementing Authorities: Hellenic Organization of Small and Medium-Sized Enterprises and Handicraft SA (EOMMEX SA), Greek Research and Technology Network SA (GRNET SA) (2002)
Semantic Web e-Commerce Applications Using Defeasible Reasoning. Funded by the Greek General Secretariat for Research and Development - Cooperation with Non-Europe Countries, Australia (2006-2008)
Ambient Intelligence Programme. Development of a semantic-based knowledge management system. Funded by the Foundation of Research & Technology, Hellas (2007-2010)

Scientific Activities

Member of the Hellenic Association for Artificial Intelligence (EETN) (since 2006)
Proceedings Chair in the 8 th Extended Semantic Web Conference (ESWC 2011)
Proceedings Chair in the 9 th Extended Semantic Web Conference (ESWC 2012)
Track Chair in the 4 th International Web Rule Symposium (RuleML 2010)
PC Membership: 22 nd International Joint Conference on Artificial Intelligence (IJCAI-11), 20 th IEEE International Conference on Tools with Artificial Intelligence (ICTAI 2008)
Paper Reviewer in: IEEE Transactions on Knowledge and Data Engineering Journal, Data and Knowledge Engineering, World Wide Web Journal
External Reviewer in: IEEE Transactions on Knowledge and Data Engineering, 10 th International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS-2011), 20 th Australian Joint Conference on Artificial Intelligence (AI 2007), First International Conference on Web Reasoning and Rule Systems (RR-2007), 6 th International Semantic Web Conference (ISWC-2007), IEEE International Conference on Web Services (ICWS-2007)

Working – Teaching Experience

Secondary Education Teacher specializing in Informatics in Technical Vocational

Schools in Heraklion (2003-2005).
Teaching Assistant for several courses of the Computer Science Department of University of Crete undergraduate and postgraduate programmes, including Digital Design, Computer Organization, Information Theory and Coding, Knowledge Representation, Semantic Web and Electronic Commerce in the Computer Science Department, University of Crete (2002-2009)
Research Assistant in the Information Systems Laboratory of the Institute of Computer Science of the Foundation of Research & Technology, Hellas (2005-2010)
ERCIM research fellow at the University of Luxembourg CSC Research Unit, Individual and Collective Reasoning Research Group (2010-2011)

Publications

Journal papers

- [1]. G. Antoniou, T. Skylogiannis, A. Bikakis, N. Bassiliades. A Semantic Brokering System for the Tourist Domain. *Information Technology & Tourism*, Vol. 7. No. 3-4. (2005), 183-200
- [2]. G. Antoniou, A. Bikakis. 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
- [3]. G. Antoniou, T. Skylogiannis, A. Bikakis, M. Doerr and N. Bassiliades. DR-BROKERING: A semantic brokering system. *Knowledge-Based Systems* 20,1 (2007): 61-72
- [4]. G. Antoniou, T. Skylogiannis, N. Bassiliades, G. Governatori and A. Bikakis. DR-NEGOTIATE – A System for Automated Agent Negotiation with Defeasible Logic-Based Strategies. *Data and Knowledge Engineering* 63,2 (2007), 362-380
- [5]. G. Antoniou, A. Bikakis, A. Karamolegou, N. Papachristodoulou and M. Stratakis. A Context-Aware Meeting Alert using Semantic Web and Rule Technology. *International Journal of Metadata, Semantics and Ontologies* 2,3 (2007), 147-156
- [6]. G. Antoniou, A. Bikakis, N. Dimareisis, G. Governatori, et al. Proof Explanation for a Nonmonotonic Semantic Web Rules Language. *Data and Knowledge Engineering* 64,3 (2008): 662-687
- [7]. T. Patkos, A. Bikakis, G. Antoniou, M. Papadopouli and D. Plexousakis. Design and Challenges of a Semantics-based Framework for Context-Aware Services. *International Journal of Reasoning-based Intelligent Systems*, Vol. 1, Nos. 1/2, pp.18–30
- [8]. M. Kritsotakis, M. Michou, E. Nikoloudakis, A. Bikakis, T. Patkos, D. Plexousakis and G. Antoniou. 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
- [9]. A. Bikakis, G. Antoniou. Defeasible Contextual Reasoning with Arguments

in Ambient Intelligence. <i>IEEE Transactions on Knowledge and Data Engineering</i> 22, 11 (2010), 1492-1506 [10]. A. Bikakis, G. Antoniou and P. Hassapis. Strategies for Contextual Reasoning with Conflicts in Ambient Intelligence. <i>Knowledge and Information Systems</i> 27, 1 (2011), 45-85 [11]. A. Bikakis and G. Antoniou. Contextual Defeasible Logic and its Application to Ambient Intelligence. <i>IEEE Transactions on Systems, Man, and Cybernetics - Part A: Systems and Humans</i> (accepted)
<i>Refereed Conference and Workshop papers</i> [12]. Grigoris Antoniou, Antonis Bikakis, and Gerd Wagner. <i>A System for Nonmonotonic Rules on the Web</i>. Proceedings of Rules and Rule Markup Languages for the Semantic Web (RuleML-04), Hiroshima, Japan (8th November 2004), LNCS 3323, 2004 [13]. Grigoris Antoniou, Antonis Bikakis, and Gerd Wagner. <i>A Defeasible Logic Programming System for the Web</i>. Proceedings of 16th IEEE International Conference on Tools with Artificial Intelligence (ICTAI'04), Boca Raton, Florida, USA (15th - 16th November 2004) [14]. Antonis Bikakis and Grigoris Antoniou. <i>DR-Prolog: A System for Reasoning with Rules and Ontologies on the Semantic Web</i>. AAI-2005, 1594-1595 [15]. Grigoris Antoniou and Antonis Bikakis. <i>DR-Prolog: A System for Reasoning with Rules and Ontologies on the Semantic Web</i>. 7th International Symposium on Logical Formalizations of Commonsense Reasoning, Corfu, Greece, May 22-24, 2005. [16]. G. Antoniou, T. Skylogiannis, A. Bikakis, N. Bassiliades. <i>DR-BROKERING: A Defeasible Logic-Based System for Semantic Brokering</i>. Proceedings of IEEE International Conference on e-Technology, e-Commerce and e-Service (EEE-05), Hong Kong, China (29th - 1st April 2005), Organization: Hong Kong Baptist University [17]. G. Antoniou, T. Skylogiannis, A. Bikakis, N. Bassiliades. <i>A Deductive Semantic Brokering System</i>. 9th International Conference on Knowledge-Based & Intelligent Information & Engineering Systems, Melbourne, Australia, 14, 15 & 16 September 2005. [18]. Grigoris Antoniou and Antonis Bikakis. <i>DR-Prolog: A System for Reasoning with Rules and Ontologies on the Semantic Web</i>. Proceedings of the 11th Workshop on Nonmonotonic Reasoning, 2006. [19]. G. Antoniou, A. Bikakis, Anna Karamolegou, Nick Papachristodoulou. <i>A Context-Aware Meeting Alert Using Semantic Web and Rule Technology - Preliminary Report</i>. Second International Workshop on Semantic Web Technology For Ubiquitous and Mobile Applications, 2006. [20]. Antonis Bikakis, Theodore Patkos, Grigoris Antoniou, Maria Papadopoulou, Dimitris Plexousakis: <i>A Semantic-based Framework for Context-aware Pedestrian Guiding Services</i>, Second International Workshop on Semantic Web Technology For Ubiquitous and Mobile Applications, Trentino, Italy,

2006.

- [21]. T. Patkos, A. Bikakis, G. Antoniou, M. Papadopoulou and D. Plexousakis. *A Semantics-based Framework for Context-Aware Services: Lessons Learned and Challenges*. In Proc. 4th International Conference on Ubiquitous Intelligence and Computing (UIC-07), LNCS 4611, Springer 2007
- [22]. Theodore Patkos, Antonis Bikakis, Grigoris Antoniou, Maria Papadopoulou and Dimitris Plexousakis. "*Distributed AI for Ambient Intelligence: Issues and Challenges*". In: Proc. 2nd European Conference on Ambient Intelligence (AmI-07), pp. 159-176, 2007.
- [23]. Antonis Bikakis and Grigoris Antoniou. "*Distributed Reasoning with Conflicts in an Ambient Peer-to-Peer Setting*". In: Constructing Ambient Intelligence - AmI-07 Workshops , Communications in Computer and Information Science 11, Springer 2008, 24-33
- [24]. Antonis Bikakis, Theodore Patkos, Grigoris Antoniou and Dimitris Plexousakis. "*A Survey of Semantics-based Approaches for Context Reasoning in Ambient Intelligence*". In: Constructing Ambient Intelligence - AmI-07 Workshops , Communications in Computer and Information Science 11, Springer 2008, 14-23
- [25]. Grigoris Antoniou, A. Bikakis, N. Dimareisis, G. Governatori. "*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
- [26]. A. Bikakis, G. Antoniou. "*Distributed Reasoning with Conflicts in a Multi-Context Framework*". In: Proc. AAAI-08
- [27]. A. Bikakis, G. Antoniou. "*Distributed Reasoning with Conflicts in a Multi-Context Framework*". In: Proc. First International Conference on Advanced Intelligence (ICAI-08)
- [28]. A. Bikakis, C. Papatheodorou, G. Antoniou. "*The DR-Prolog Tool Suite for Defeasible Reasoning and Proof Explanation in the Semantic Web*". In: Proc. 5th Hellenic Conference on Artificial Intelligence (SETN'08) LNAI 5138, Springer 2008, 345-351
- [29]. A. Bikakis, G. Antoniou, P. Damianakis, M. Foukarakis, G. Iacovidis, M. Karmazh, H. Kondylakis, A. Makridakis, G. Nikiforos, G. Papadourakis. "*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
- [30]. A. Bikakis, G. Antoniou. "*Distributed Defeasible Reasoning in Multi-Context Systems*". In: Proc. NMR'08
- [31]. A. Bikakis, G. Antoniou. "*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
- [32]. A. Bikakis, G. Antoniou. "*Local and Distributed Defeasible Reasoning in Multi-Context Systems*". In: Proc. RuleML'2008 LNCS 5321, Springer 2008,

- [33]. I. Avguleas, K. Gkirtzou, S. Triantafilou, A. Bikakis, G. Antoniou, E. Kontopoulos and N. Bassiliades. "*Visualization of Proofs in Defeasible Logic*". In: Proc. RuleML'2008 LNCS 5321, Springer 2008, 197-210
- [34]. M. Michou, A. Bikakis, T. Patkos, G. Antoniou and D. Plexousakis. "*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, 41-50
- [35]. A. Bikakis, G. Antoniou. "*Distributed Defeasible Contextual Reasoning in Ambient Computing*". In: Proc Aml'08 European Conference on Ambient Intelligence, LNCS 5355, Springer 2008, 308-325
- [36]. M. Kritsotakis, M. Michou, E. Nikoloudakis, A. Bikakis, T. Patkos, D. Plexousakis and G. Antoniou. "*C-NGINE: A Contextual Navigation Guide for Indoor Environments*". In: Proc Aml'08 European Conference on Ambient Intelligence, LNCS 5355, Springer 2008, 258-275
- [37]. A. Bikakis, G. Antoniou and P. Hassapis. "*Alternative Strategies for Conflict Resolution in Multi-Context Systems*". In: Proc. 5th IFIP Conference on Artificial Intelligence Applications & Innovations (AIAI 2009). IFIP 2009
- [38]. E. Nikoloudakis, M. Kritsotakis, A. Bikakis, T. Patkos, D. Plexousakis and G. Antoniou. "*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
- [39]. Asterios Leonidis, George Baryannis, Xenofon Fafoutis, Maria Korozi, Niki Gazoni, Michail Dimitriou, Maria Koutsogiannaki, Aikaterini Boutsika, Myron Papadakis, Haridimos Papagiannakis, George Tesseris, Emmanouil Voskakis, Antonis Bikakis and Grigoris Antoniou. "*AlertMe: A Semantics-based Context-Aware Notification System*". 2nd IEEE International Workshop on Software Engineering for Context Aware Systems and Applications, SECASA 2009, IEEE Press 2009
- [40]. A. Bikakis, G. Antoniou. "*Argumentation about Context in Ambient Intelligence*". LPNMR 2009, LNAI 5753, Springer 2009, 30-43
- [41]. A. Bikakis, G. Antoniou. "*Rule-based Contextual Reasoning in Ambient Intelligence*". In Proc. International Symposium on Semantic Web Rules (RuleML 2010), LNCS 6403, Springer 2010, 74-88
- [42]. G. Antoniou, A. Bikakis, C. Papatheodorou. "*Reasoning with Imperfect Context and Preference Information in Multi-Context Systems*". In Proc. 14th East European Conference on Advances in Database Systems (ADBIS 2010), LNCS 6295, Springer 2010, 1-12
- [43]. A. Bikakis, G. Antoniou. "*Defeasible Contextual Reasoning in Ambient Intelligence: Theory and Applications*". In: OTM 2010 Workshops, LNCS 6428, Springer 2010, 89
- [44]. C. Papatheodorou, A. Bikakis, G. Antoniou. "*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, 557-559

- [45]. T. Patkos, G. Antoniou, D. Plexousakis, I. Chryssakis, A. Bikakis. "*A Reasoning Framework for Ambient Intelligence*", SETN 2010, LNCS 6040, Springer 2010, 213-222
- [46]. C. Papatheodorou, A. Bikakis, G. Antoniou. "*On the Deployment of Contextual Reasoning in Ambient Intelligence Environments*", In Proc. 6th International Conference on Intelligent Environments (IE'10), IEEE Computing Society 2010, 13-18
- [47]. A. Bikakis, G. Antoniou. "*Partial Preferences and Ambiguity Resolution in Contextual Defeasible Logic*", In Proc. 11th International Conference on Logic Programming and Nonmonotonic Reasoning, LNCS 6645, Springer 2011, 193-198

Theses

- [1]. Web Site Log File Analysis (B.Sc. Thesis). Under the Supervision of Professor Gerasimos Strintzis (2002)
- [2]. A System for Nonmonotonic Rules on the Web (M.Sc. Thesis). Under the Supervision of Professor Grigoris Antoniou (2004)
- [3]. A System Defeasible Contextual Reasoning in Ambient Intelligence (Ph.D. Thesis). Under the Supervision of Professor Grigoris Antoniou (2009)