Curriculum Vitae of Antonis Bikakis

Personal Information	
Date of Birth	26/5/1978
Place of Birth	Heraklion, Crete, Greece
E-mail	a.bikakis@ucl.ac.uk
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Work Information

Lecturer of Computing and Artificial Intelligence, Department of Information Studies, University College London (since September 2011)

- Departmental Undergraduate Teaching Coordinator
- Teaching: Semantic Web (undergraduate), Knowledge Representation and Semantic Technologies (postgraduate)
- Postgraduate and research students tutoring and supervision
- Participation in committees and working groups within the department

Research Interests

Knowledge Representation, Non-monotonic Reasoning, Contextual Reasoning, Argumentation, Knowledge-based Systems, 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

Professional Certificate in Teaching and Learning in Higher and Professional Education (2011-2013)
Institute of Education, University of London

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) – Research Assistant
Ambient Intelligence Programme. Development of a semantic-based knowledge management system. Funded by the Foundation of Research & Technology, Hellas (2007-2010) – Work Package Leader
CoPAInS. Conviviality and Privacy in Ambient Intelligence Systems. Funded by FNR Luxembourg (2012-2014) – External advisor

Scientific Activities
Member of the Hellenic Association for Artificial Intelligence (EETN) (since 2006)
Member of the London Applied Logic Group (ALG) (since 2011)
Member of the Steering Committee of RuleML (since 2011)
Co-chair of the 2nd International Workshop: "Artificial Intelligence meets the Web of Data" (AImWD 2013).
Program Co-Chair of the 8th International Web Rule Symposium (RuleML 2014)
Program Co-Chair of the 6th International Web Rule Symposium (RuleML 2012)
Proceedings Chair of the 8th and 9th Extended Semantic Web Conferences (ESWC 2011 & ESWC 2012)

Track Chair, 4th International Web Rule Symposium (RuleML 2010)
PC Membership: 27th AAAI Conference on Artificial Intelligence (AAAI-13), 10th Extended Semantic Web Conference (ESWC-2013), 22nd and 23rd International Joint Conferences on Artificial Intelligence (IJCAI-11, IJCAI-13), 7th International Web Rule Symposium (RuleML-2013), 4th International Conference on Emerging Ubiquitous Systems and Pervasive Networks (EUSPN-2013), 13th International Workshop on Computational Logic in Multi-Agent Systems (CLIMA-XIII), 20th IEEE International Conference on Tools with Artificial Intelligence (ICTAI 2008), 6th and 7th Multi-Disciplinary International Workshop on Artificial Intelligence (MIWAI 2012, MIWAI 2013)
Paper Reviewer in: IEEE Transactions on Knowledge and Data Engineering Journal, Theory and Practice of Logic Programming, Journal of Logic and Computation, AI Communications, International Journal of Network Management, Data and Knowledge Engineering, World Wide Web Journal, Journal of Ambient Intelligence and Smart Environments, International Journal on Artificial Intelligence Tools
External Reviewer in: 10th, 11th and 12th International Conferences on Autonomous Agents and Multi-Agent Systems (AAMAS 2011-2013), 28th International Conference on Logic Programming (ICLP-2012), 1st International Conference on Agreement Technologies (AT 2012), 20th Australian Joint Conference on Artificial Intelligence (AI 2007), First International Conference on Web Reasoning and Rule Systems (RR-2007), 6th International Semantic Web Conference (ISWC-2007), IEEE International Conference on Web Services (ICWS-2007)
Editor of: Rules on the Web: Research and Applications – Proceedings of the 6th International Web Rule Symposium, RuleML 2012
Reviewer of research proposals for the National Research Council of the Romanian Government (since 2012)

Previous Working – Teaching Experience
Secondary Education Teacher specializing in Informatics in Technical Vocational Schools in Heraklion (2003-2005).
Teaching Assistant for the Computer Science Department of University of Crete undergraduate and postgraduate programmes: 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. Dimaresis, 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. *IEEE Transactions on Knowledge and Data Engineering* 22, 11 (2010), 1492-1506

[10]. A. Bikakis, G. Antoniou and P. Hassapis. Strategies for Contextual Reasoning with Conflicts in Ambient Intelligence. *Knowledge and Information Systems* 27, 1 (2011), 45-85

[11]. A. Bikakis and G. Antoniou. Contextual Defeasible Logic and its Application to Ambient Intelligence. IEEE *Transactions on Systems, Man, and Cybernetics - Part A: Systems and Humans*, 41, 4 (2011), 705-716

[12]. I. Genitsaridi, A. Bikakis, G. Antoniou: DEAL: A Distributed Authorization Language for Ambient Intelligence. *International Journal on Ambient Computing and Intelligence* 3, 4 (2011), 9-24

Refereed Conference and Workshop papers

[13]. Grigoris Antoniou, Antonis Bikakis, and Gerd Wagner. *A System for Nonmonotonic Rules on the Web.* Proceedings of Rules and Rule Markup Languages for the Semantic Web (RuleML-04), Hiroshima, Japan (8th November 2004), LNCS 3323, 2004

[14]. Grigoris Antoniou, Antonis Bikakis, and Gerd Wagner. *A Defeasible Logic Programming System for the Web.* Proceedings of 16th IEEE International Conference on Tools with Artificial Intelligence (ICTAI'04), Boca Raton, Florida, USA (15th - 16th November 2004)

[15]. Antonis Bikakis and Grigoris Antoniou. *DR-Prolog: A System for Reasoning with Rules and Ontologies on the Semantic Web.* AAAI-2005, 1594-1595

[16]. Grigoris Antoniou and Antonis Bikakis. *DR-Prolog: A System for Reasoning with Rules and Ontologies on the Semantic Web.* 7th International Symposium on Logical Formalizations of Commonsense Reasoning, Corfu, Greece, May 22-24, 2005.

[17]. G. Antoniou, T. Skylogiannis, A. Bikakis, N. Bassiliades. *DR-BROKERING: A Defeasible Logic-Based System for Semantic Brokering.* 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

[18]. G. Antoniou, T. Skylogiannis, A. Bikakis, N. Bassiliades. *A Deductive Semantic Brokering System.* 9th International Conference on Knowledge-Based & Intelligent Information & Engineering Systems, Melbourne, Australia, 14, 15 & 16 September 2005.

[19]. Grigoris Antoniou and Antonis Bikakis. *DR-Prolog:A System for Reasoning with Rules and Ontologies on the Semantic Web.* Proceedings of the 11th Workshop on Nonmonotonic Reasoning, 2006.

[20]. G. Antoniou, A. Bikakis, Anna Karamolegou, Nick Papachristodoulou. *A Context-Aware Meeting Alert Using Semantic Web and Rule Technology - Preliminary Report.* Second International Workshop on Semantic Web Technology For Ubiquitous and Mobile Applications, 2006.

[21]. Antonis Bikakis, Theodore Patkos, Grigoris Antoniou, Maria Papadopouli, Dimitris Plexousakis: *A Semantic-based Framework for Context-aware Pedestrian Guiding Services,* Second International Workshop on Semantic Web Technology For Ubiquitous and Mobile Applications, Trentino, Italy, 2006.

[22]. T. Patkos, A. Bikakis, G. Antoniou, M. Papadopouli 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

[23]. Theodore Patkos, Antonis Bikakis, Grigoris Antoniou, Maria Papadopouli 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.

[24]. 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

[25]. 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

[26]. Grigoris Antoniou, A. Bikakis, N. Dimaresis, 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

[27]. A. Bikakis, G. Antoniou. "*Distributed Reasoning with Conflicts in a Multi-Context Framework"*. In: Proc. AAAI-08

[28]. A. Bikakis, G. Antoniou. "*Distributed Reasoning with Conflicts in a Multi-Context Framework*". In: Proc. First International Conference on Advanced Intelligence (ICAI-08)

[29]. 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

[30]. 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

[31]. A. Bikakis, G. Antoniou. "*Distributed Defeasible Reasoning in Multi-Context Systems*". In: Proc. NMR'08

[32]. 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

[33]. A. Bikakis, G. Antoniou. "*Local and Distributed Defeasible Reasoning in Multi-Context Systems*". In: Proc. RuleML'2008 LNCS 5321, Springer 2008, 135-149

[34]. 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

[35]. 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

[36]. A. Bikakis, G. Antoniou. "*Distributed Defeasible Contextual Reasoning in*

Ambient Computing". In: Proc AmI'08 European Conference on Ambient Intelligence, LNCS 5355, Springer 2008, 308-325

[37]. 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 AmI'08 European Conference on Ambient Intelligence, LNCS 5355, Springer 2008, 258-275

[38]. 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

[39]. 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

[40]. 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

[41]. A. Bikakis, G. Antoniou. "*Argumentation about Context in Ambient Intelligence*". LPNMR 2009, LNAI 5753, Springer 2009, 30-43

[42]. 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

[43]. 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

[44]. A. Bikakis, G. Antoniou. "*Defeasible Contextual Reasoning in Ambient Intelligence: Theory and Applications*". In: OTM 2010 Workshops, LNCS 6428, Springer 2010, 89

[45]. 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

[46]. T. Patkos, G. Antoniou, D. Plexousakis, I. Chryssakis, A. Bikakis. "*A Reasoning Framework for Ambient Intelligence"*, SETN 2010, LNCS 6040, Springer 2010, 213-222

[47]. 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

[48]. 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

[49]. P. Caire, A. Bikakis. *"Enhancing Cooperation in Distributed Information Systems Using Conviviality and Multi-Context Systems"*, In Proc. 5th Multidisciplinary International Workshop on Artificial Intelligence (MIWAI 2011), LNCS 7080, Springer 2011, 14-25

[50]. A. Bikakis, V. Efthymiou, P. Caire, Y. Le Traon. *"Introducing conviviality as a property of Multi-Context Systems"*, In Proc. 4th International Workshop on Acquisition, Representation and Reasoning with Contextualized Knowledge (ARCOE-12).

[51]. V. Efthymiou, P. Caire, A. Bikakis. *"Modeling and Evaluating Cooperation in Multi-Context Systems using Conviviality"*. In Proc. 24th Benelux Conference on Artificial Intelligence (BNAIC 2012).

[52]. P. Caire, A. Bikakis, V. Efthymiou. *"Conviviality by Design"*. In Social Turn - Social Networks and Multiagent Systems (SNAMAS) Symposium, part of AISB/IACAP World Congress 2012 in honor of Alan Turing. Birmingham, UK, July 2-6, 2012.

[53]. A. Moawad, A. Bikakis, G. Nain, P. Caire, Y. Le Traon. "*A Rule-based Contextual Reasoning Platform for Ambient Intelligence environments*". In: Proceedings of the 7th International Web Rule Symposium, RuleML 2013, Seattle, WA, USA, July 11-13, 2013, LNCS 8035, Springer, 158-172

[54]. A. Moawad, A. Bikakis, G. Nain, P. Caire, Y. Le Traon. "*R-CoRe: A Rule-based Contextual Reasoning Platform for AmI*". In: Joint Proceedings of the 7th International Rule Challenge, the Special Track on Human Language Technology and the 3rd RuleML Doctoral Consortium, RuleML 2013, Seattle, WA, USA, July 11-13, 2013, CEUR Workshop Proceedings, Vol. 1004, CEUR-WS.org

[55]. A. Vasilopoulou-Spitha, A. Bikakis. "*Semantics-based models for the representation of claims about cultural artifacts and their sources*." In: Joint Proceedings of the ESWC2013 Workshops: First International Workshop on Benchmarking RDF Systems (BeRSys2013), Second Workshop on Artificial Intelligence meets the Web of Data (AImWD2013) and Third International Workshop on Usage Analysis and the Web of Data (USEWOD2013), Montpellier, France, May 26, 2013, CEUR Workshop Proceedings, Vol. 981, CEUR-WS.org

[56]. L. Tian, W. Zhang, A. Bikakis, H. Wang, Y. Yu, Y. Ni, F, Cao. "*MeDetect: A LOD-based System for Collective Entity Annotation in Biomedicine*", In Proceedings of the 2013 IEEE/WIC/ACM International Conference on Web Intelligence (WI13), Atlanta, USA, November 17-20, 2013

[57]. P. Caire, A. Bikakis. Information Dependencies in MCS: Conviviality-based Model and Metrics. In Proceedings of the 16th International Conference on Principles and Practice of Multi-Agent Systems (PRIMA), Dunedin, New Zealand, December 1-6, 2013, LNCS 8291, Springer, 405-412

Dissertations - Thesis

[1]. Web Site Log File Analysis (B.Sc. Dissertation). Under the Supervision of Professor Gerasimos Strintzis (2002)

[2]. A System for Nonmonotonic Rules on the Web (M.Sc. Dissertation). 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)