

Antonis Bikakis

Associate Professor (Computing and Artificial Intelligence)
Department of Information Studies
University College London
Gower Street, London WC1E 6BT, U.K.
Email: a.bikakis@ucl.ac.uk
Web page: <https://www.ucl.ac.uk/information-studies/antonis-bikakis>

EMPLOYMENT

- **2011/Current:** Associate Professor (Computing and Artificial Intelligence), Department of Information Studies, University College London
- **2010/2011:** ERCIM research fellow, CSC Research Unit, University of Luxembourg
- **2005/2010:** Research Assistant, Institute of Computer Science, FO.R.T.H., Greece
- **2002/2009:** Teaching Assistant, Computer Science Department, University of Crete, Greece
- **2003/2005:** Secondary Education Teacher, Technical Vocational Schools in Heraklion, Greece

EDUCATION

- **2011/2013:** Professional Certificate in Teaching and Learning in Higher and Professional Education, Institute of Education, University of London
- **2005/2009:** PhD in Computer Science, under Prof. Grigoris Antoniou, University of Crete. Thesis title: *Defeasible Contextual Reasoning in Ambient Intelligence*.
- **2002/2005:** M.Sc. in Computer Science, under Prof. Grigoris Antoniou, University of Crete. Thesis title: *A System for Nonmonotonic Rules on the Web*
- **1996/2002:** B.Eng. in Electrical and Computer Engineering, Aristotle University of Thessaloniki

AWARDS AND SCHOLARSHIPS

- **2013/2014:** IMB (UCL Information Management for Business) Best Teacher Award
- **2010/2011:** "Allain Bensoussan" Fellowship, ERCIM (European Research Consortium for Informatics and Mathematics)
- **2004/2009:** Student Research Scholarship, Institute of Computer Science, FO.R.T.H, Greece
- **2007/2008:** Manasaki Graduate Scholarship for Excellence in Graduate Studies, University of Crete
- **2002/2004:** Studentship, Computer Science Department, University of Crete

ADMINISTRATIVE EXPERIENCE

At UCL

- **2019/current:** Programme Director of the Information Science MSc
- **2018/current:** Chair of the Exam Board of the Information Science MSc
- **2018/2019:** Departmental Graduate Tutor and Admissions Tutor for Research Students
- **2016/2017:** Programme Review of the Information Science MSc
- **2012/2016:** Departmental Undergraduate Teaching Coordinator
- **2012/2016:** Chair of the Departmental Undergraduate Exam Board
- **2011/2019:** Member of interview panels for various posts within the Department of Information Studies

RESEARCH

Research Interests

- Knowledge Representation, Non-monotonic Reasoning, Argumentation, Knowledge-based Systems, Semantic Technologies, Ambient Intelligence, Digital Humanities

Project Experience

- **Principal Investigator** of CrossCult: Empowering reuse of digital cultural heritage in context-aware crosscuts of European history (2016-19), Horizon 2020
- **External Advisor** for SoCoLA: Towards Socio-Cognitive Logic-based Agents (2018-2023), funded by the Hellenic Foundation for Research & Innovation (HFRI)
- **Project Lead** of Bibliographic Linked Open Data (2014-15), UCL E-learning Environments
- **External Advisor and Proposer** of CoPAInS: Conviviality and Privacy in Ambient Intelligence Environments (2011-14), FNR Luxembourg
- **Research Assistant** in various research projects at FO.R.T.H. such as: *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); and *Ambient Intelligence Programme*. Funded by the Foundation of Research & Technology, Hellas (2007-2010)

COMMUNITY SERVICE

Scientific Societies

- **Member of:** Hellenic Association for Artificial Intelligence, London Applied Logic Group, UCL Digital Humanities Research Centre, UCL Knowledge, Information and Data Science research group, Centre for Doctoral Training in Science and Engineering in Arts Heritage and Archaeology

Editorial Work

- **Guest Editor**, *Semantic Web Journal*, Special Issue on Semantic Web for Cultural Heritage
- **Guest Editor**, *Sensors*, Special Issue on Trends and Advances in Ambient Intelligence for the Internet of Things
- **Guest Editor**, *Sensors*, Special Issue on Sensors for Ambient Assisted Living, Ubiquitous and Mobile Health

- **Guest Editor**, *Journal of Ambient Intelligence and Smart Environments*, Thematic Issue on Semantic Web technologies for mobile and pervasive environments
- **Guest Editor**, *Theory and Practice of Logic Programming*, Special Issue on on the International Web Rule Symposia 2012-2014
- **Guest Editor**, *International Journal on Artificial Intelligence Tools*, Special Issue on Advances of AI Theories and Applications (SETN 2016)
- **Guest Editor**, *International Journal on Artificial Intelligence Tools*, Special Issue on Special Issue Based on Best Papers of Recent MIWAI Workshops

Conference Leadership & PC Membership

- **Steering Committee Member** of the International Web Rule (RuleML) Symposia
- **Co-Chair** of the 3rd International Workshop on Semantic Web for Cultural Heritage (SW4CH 2018)
- **Co-Chair** of the RuleML+RR 2017 Doctoral Consortium
- **Co-Chair** of the 1st International Workshop on Semantic Web Technologies for Mobile and Pervasive Environments (SEMPER 2016)
- **Co-Chair** of the 2nd International Workshop 'Artificial Intelligence meets the Web of Data' (AlmWD 2013)
- **PC Co-Chair** of the 9th Hellenic Conference on Artificial Intelligence (SETN 2016)
- **PC Co-Chair** of the 9th Multi-disciplinary International Workshop on Artificial Intelligence (MIWAI 2015)
- **PC Co-Chair** of the 8th International Web Rule Symposium (RuleML 2014)
- **PC Co-Chair** of the 6th International Web Rule Symposium (RuleML 2012)
- **Track Chair** at the 4th International Web Rule Symposium (RuleML 2010)
- **Proceedings Chair** of the 9th Extended Semantic Web Conference (ESWC 2012)
- **Proceedings Chair** of the 8th Extended Semantic Web Conference (ESWC 2011)
- **PC Member** of leading Artificial Intelligence, Computer Science and Information Science conferences including IJCAI, AAI, ECAI, ICTAI, ESWC, RuleML, WISE, Aml, Commonsense, iConference, SETN, etc.
- **Reviewer** for leading Artificial Intelligence, Computer Science and Information Science Journals: International Journal of Approximate Reasoning, Journal of Logic and Computation, AI Communications, Journal of Artificial Intelligence Research, Journal of Ambient Intelligence and Smart Environments, Theory and Practice of Logic Programming, Semantic Web Journal, Transactions on Knowledge and Data Engineering, Data and Knowledge Engineering, Journal of Information Science, User Modeling and User-Adapted Interaction, The Computer Journal, Journal of Logical and Algebraic Methods in Programming, Annals of Mathematics and Artificial Intelligence, Journal of Internet Services and Applications, Journal of Systems and Software, International Journal of Artificial Intelligence Tools, International Journal of Network Management, World Wide Web Journal.

Invited Talks

- **June 2018**: "Semantic Web Technologies for CrossCult", Invited Talk, SW4CH 2018, Heraklion, Greece.

- **October 2017:** “Rule-based approaches for reasoning in Ambient Intelligence”, Invited talk, Amazon R&D, Cambridge, UK.
- **April 2017:** “Rule-based Reasoning in Ambient Intelligence: Theory and Applications”, IRC-SPHERE Seminar, Bristol, UK.
- **September 2015:** “Machine-Interpretable Online Debates. The vision of a new Web Paradigm”. National Technical University of Athens, Greece.
- **June 2014:** “The vision of Persuasive Web”, Invited Talk, School of Computing and Engineering, University of Huddersfield, UK.
- **November 2013:** “Information Dependencies in MCS: Conviviality-Based Model and Metrics”, Invited Talk, Logic Conventicle, Griffith University, Brisbane, Australia.
- **September 2013:** “Rule-based Contextual Reasoning in Ambient Intelligence”, Invited Lecture, Dem@Care Summer School on Ambient Assisted Living, Chania, Greece.
- **September 2012:** “Introducing Conviviality as a Property of Multi-Context Systems”, Invited Talk, Department of Informatics, King’s College London, UK.
- **October 2010:** “Defeasible Contextual Reasoning in Ambient Intelligence”, Invited Talk, Ambient Data Integration Workshop, OTM Conferences & Workshops, Heraklion, Greece.

External Examiner

- **2016/current:** External Examiner for the Technologies and Computing postgraduate programmes of the UK Open University
- PhD External Examiner for Imperial College London, Royal Holloway, University of Huddersfield, University of Queensland, Aristotle University of Thessaloniki

TEACHING EXPERIENCE

At UCL

- **Knowledge Representation and Semantic Technologies** (postgraduate), 2013-19, optional module of all programmes of the Department of Information Studies, co-designed and co-led with Dr. Rob Miller
- **Server Technologies and Structured Data** (postgraduate), 2013-2019, core module of the Digital Humanities MA/MSc, co-designed and co-led with Dr. Oliver Duke-Williams
- **Semantic Web Technologies** (undergraduate), 2012-2019, optional 2nd year module of the Information Management for Business BSc, module designer and leader
- **Programming I** (undergraduate), 2011-14, core 1st year module of the Information Management for Business BSc, module leader
- **Guest Lectures** for various modules of the Library and Information Studies MA and the Archives and Record Management MA
- **Seminars** for research students of the Department of Information Studies
- **Supervisor of 6 PhD students** (2 as principal supervisor)
- **MSc Dissertation supervisor** for the Information Science, Digital Humanities and Library and Information Studies MSc/MA programmes
- **Final year project supervisor** for the Information Management for Business BSc

At University of Crete

- **Teaching Assistant** for modules of the Computer Science BSc & MSc, 2002-2009: Digital Design, Computer Organization, Information Theory and Coding, Knowledge Representation, Semantic Web, Electronic Commerce

PUBLICATIONS

Book Chapters

- A. Chibani , A. Bikakis, T. Patkos, Y. Amirat, S. Bouznad, N. Ayari, L. Sabri: Using Cognitive Ubiquitous Robots for Assisting Dependent People in Smart Spaces. In Mohammed, S., Moreno, J., Kong, K., Amirat, Y. (eds) *Intelligent Assistive Robots*, Springer, pp. 297-316

Journal Publications

1. Ahmed Dahroug, Andreas Vlachidis, Antonios Liapis, Antonis Bikakis, Martín López-Nores, Owen Sacco, José Juan Pazos-Arias: Using dates as contextual information for personalized cultural heritage experiences. *Journal of Information Science* (accepted)
2. Martín López Nores, Omar Gustavo Bravo-Quezada, Maddalena Bassani, Angeliki Antoniou, Ioanna Lykourantzou, Catherine Emma Jones, Kalliopi Kontiza, Silvia González-Soutelo, Susana Maria Reboreda-Morillo, Yannick Naudet, Andreas Vlachidis, Antonis Bikakis, José Juan Pazos-Arias: Technology-Powered Strategies to Rethink the Pedagogy of History and Cultural Heritage through Symmetries and Narratives. *Symmetry* 11(3): 367 (2019)
3. Joseph Padfield, Kalliopi Kontiza, Antonis Bikakis, Andreas Vlachidis: A. Semantic Representation and Location Provenance of Cultural Heritage Information: the National Gallery Collection in London. *Heritage*. 2019, 2(1):648-665
4. Giorgos Flouris, Antonis Bikakis: A Comprehensive Study of Argumentation Frameworks With Sets of Attacking Arguments. *International Journal of Approximate Reasoning*, 109: 55-86 (2019)
5. I. Kyvernitou, A. Bikakis: An Ontology for Gendered Content Representation of Cultural Heritage Artefacts. *Digital Humanities Quarterly* 11(3) (2017)
6. P. Caire, A. Moawad, V. Efthymiou, A. Bikakis and Y. Le Traon: Privacy Challenges in Ambient Intelligence Systems. Lessons Learned, Gaps and Perspectives from the AAL Domain and Applications. *Journal of Ambient Intelligence and Smart Environment*, to appear in Volume 8, Issue 5, 2016
7. T.G. Stavropoulos, E., N. Bassiliades, J. Argyriou, A. Bikakis, D. Vrakas and I. Vlahavas: Rule-based Approaches for Energy Savings in an Ambient Intelligence Environment, *Journal of Pervasive and Mobile Computing*, 19,1 (2015): 1-23
8. A. Welsh, A. Bikakis, N.G. Garea, S. Mahony, C. Inskip, M. Vogel: Work in Progress: the Linked Open Bibliographic Data Project. *Catalogue and Index*, (178), 15-19
9. A. Bikakis, P. Caire, Y. Le Traon: Tools for Conviviality in Multi-Context Systems. *IFCOLOG Journal of Logic and Applications*, 1,1 (2014): 95-114, College Publications
10. I. Genitsaridi, A. Bikakis, G. Antoniou. DEAL: A Distributed Authorization Language for Ambient Intelligence. *International Journal of Ambient Computing and Intelligence* 3,4 (2011): 9-24
11. A. Bikakis, P. Hassapis and G. Antoniou. Defeasible Contextual Reasoning in Ambient Intelligence. *Knowledge and Information Systems* 27,1 (2011): 45-85

12. A. Bikakis, G. Antoniou. Contextual Defeasible Logic and its Application to Ambient Intelligence. *IEEE Transactions on Systems, Man, and Cybernetics, Part A* 41,4 (2011): 705-716
13. A. Bikakis and G. Antoniou. Contextual Argumentation in Ambient Intelligence. *IEEE Transactions on Knowledge and Data Engineering* 22,11 (2010): 1492-1506
14. 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
15. 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*, 1, 1/2 (2009): 18-30
16. G. Antoniou, A. Bikakis, N. Dimareisis, G. Governatori. Proof Explanation for a Nonmonotonic Semantic Web Rules Language. *Data and Knowledge Engineering* 64,3 (2008): 662-687
17. 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
18. 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
19. 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
20. G. Antoniou, A. Bikakis. DR-Prolog: A System for Defeasible Reasoning with Rules and Ontologies on the Semantic Web. *Transactions on Knowledge and Data Engineering* 19,2 (2007)
21. 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), pp. 183-200

Refereed Conference and Workshop Publications

1. Angeliki Antoniou, Manolis Wallace, Martín López Nores, Yannick Naudet, Jaime Solano, Antonis Bikakis, Catherine Emma Jones, Evgenia Vassilakaki, Joseph Padfield: CrossCult: Empowering Reuse of Digital Cultural Heritage in Context-Aware Crosscuts of European History. CIRA@EuroMed 2018: 1-10
2. Kalliopi Kontiza, Angeliki Antoniou, Antonis Bikakis, Rob Miller: Towards a Cognitive Based Framework for Evaluating Information Visualisation Tools as tools for Learning, VisGuides 2018
3. Danfeng Liu, Antonis Bikakis, Andreas Vlachidis: Evaluation of Semantic Web Ontologies for Modelling Art Collections. ADBIS (Short Papers and Workshops) 2017: 343-352
4. Andreas Vlachidis, Antonis Bikakis, Daphne Kyriaki-Manessi, Ioannis Triantafyllou, Angeliki Antoniou: The CrossCult Knowledge Base: A Co-inhabitant of Cultural Heritage Ontology and Vocabulary Classification. ADBIS (Short Papers and Workshops) 2017: 353-362
5. Giorgos Flouris, Theodore Patkos, Ilia Adami, Antonis Bikakis, Manos Dimitrakis, George Mathioudakis, Yannis Roussakis, Dimitris Plexousakis: Methinks: Enabling Sophisticated Comment Management in the Social Web. SEMANTICS Posters&Demos 2017
6. Andreas Vlachidis, Antonis Bikakis, Daphne Kyriaki-Manessi, Ioannis Triantafyllou, Joseph Padfield, Kalliopi Kontiza: Semantic Representation and Enrichment of Cultural Heritage

Information for Fostering Reinterpretation and Reflection on the European History. ITN-DCH 2017: 91-103

7. Fabio Aurelio D'Asaro, Antonis Bikakis, Luke Dickens, Rob Miller: Foundations for a Probabilistic Event Calculus. LPNMR 2017: 57-63
8. S. Iacob and A. Bikakis: Evaluation of Semantic Web Ontologies for Privacy Modelling in Smart Home Environments, PrivOn 2016
9. T. Patkos, G. Flouris and A. Bikakis: Symmetric Multi-Aspect Evaluation of Comments - Extended Abstract. Proceedings of the 22nd European Conference on Artificial Intelligence (ECAI 2016), 29 August-2 September 2016, The Hague, The Netherlands, 1672-1673, IOS Press
10. A. Bikakis, P. Caire, K. Clark, G. Cornelius, J. Ma, R. Miller, A. Russo and H. Voos: Collaborative Explanation and Response in Assisted Living Environments Enhanced with Humanoid Robots. Proceedings of ICAART 2016, 506-511
11. T. Patkos, A. Bikakis, G. Flouris: A Multi-Aspect Evaluation Framework for Comments on the Social Web, Proceedings of the 15th International Conference on Principles of Knowledge Representation and Reasoning, KR 2016, Cape Town, South Africa, April 25-29, 2016, 593-596, AAAI Press
12. T. Patkos, G. Flouris, P. Papadakos, A. Bikakis, P. Casanovas, J. González-Conejero, R.V. Figueroa, A. Hunter, G. Idir, G. Ioannidis, M. Kacprzyk-Murawska, A. Nowak, J.V. Pitt, D. Plexousakis, A. Rychwalska, A. Stan: Privacy-by-Norms: Privacy Expectations in Online Interactions. 2015 IEEE International Conference on Self-Adaptive and Self-Organizing Systems Workshops, SASO Workshops 2015, Cambridge, MA, USA, September 21-25, 2015, IEEE Computer Society, 1-6.
13. K. Kontiza, A. Bikakis, R. Miller: Cognitive-Based Visualization of Semantically Structured Cultural Heritage Data. Proceedings of the International Workshop on Visualizations and User Interfaces for Ontologies and Linked Data co-located with 14th International Semantic Web Conference (ISWC 2015), Bethlehem, Pennsylvania, USA, October 11, 2015, CEUR Workshop Proceedings, Vol. 1456, CEUR-WS.org
14. A. Bikakis, P. Caire: Computing Coalitions in Multiagent Systems: A Contextual Reasoning Approach. 12th European Conference on Multiagent Systems, EUMAS 2014, Prague, Czech Republic, December 18-19, 2014, Revised Selected Papers. Springer LNCS 8953, 85-100.
15. P. Caire, A. Bikakis: A MCS-based methodology for computing coalitions in Multirobot Systems. Cognitive Robots (CogRob) @ ECAI 2014, August 18-19, 2014, Prague, Czech Republic.
16. K. Kontiza, A. Bikakis: Web Search Results Visualization: Evaluation of Two Semantic Search Engines. 4th International Conference on Web Intelligence, Mining and Semantics (WIMS 14), WIMS '14, Thessaloniki, Greece, June 2-4, 2014, 39. ACM 2014
17. 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, 2013 IEEE/WIC/ACM International Conferences on Web Intelligence, WI 2013, Atlanta, GA, USA, November 17-20, 2013, 233-240. IEEE Computer Society, 2013.
18. A. Bikakis, P. Caire: Information Dependencies in MCS: Conviviality-based Model and Metrics. PRIMA 2013: Principles and Practice of Multi-Agent Systems - 16th International Conference, Zealand, December 1-6, 2013, Springer LNCS, 405-412.
19. 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

Symposium on Rules, RuleML 2013, Seattle, WA, USA, July 11-13, 2013, LNCS 8035, Springer, 158-172

20. A. Moawad, A. Bikakis, G. Nain, P. Caire, Y. Le Traon: R-CoRe: A Rule-based Contextual Reasoning Platform for Aml. 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
21. A. Vasilopoulou-Spitha, A. Bikakis: Semantics-based models for the representation of claims about cultural artifacts and their sources. In: Proceedings of the ESWC2013 Workshop 'Artificial Intelligence meets the Web of Data' (AlmWD2013), Montpellier, France, May 26, 2013, CEUR Workshop Proceedings, Vol. 981, CEUR-WS.org
22. 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
23. A. Bikakis, V. Efthymiou, P. Caire: Introducing Conviviality as a property of Multi-Context Systems. In Proc. of the 4th International Conference on Acquisition, representation and reasoning with contextualized knowledge (ARCOE 2012), 2012
24. V. Efthymiou, P. Caire, A. Bikakis: Modeling and Evaluating Cooperation in Multi-Context Systems using Conviviality. Proceedings of BNAIC 2012 The 24th Benelux Conference on Artificial Intelligence, 2012, pp. 83-90, ISBN: 1568-7805
25. P. Caire, A. Bikakis: Enhancing Cooperation in Distributed Information Systems using Conviviality and Multi-Context Systems. In: Proc. 5th Multi-disciplinary Workshop on Artificial Intelligence (MIWAI 2011), LNCS 7080, Springer 2011, 14-25
26. A. Bikakis, G. Antoniou: Partial Preferences and Ambiguity Resolution in Contextual Defeasible Logic. In: Proc. 11th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR 2011), LNCS 6645, Springer 2011, 193-198
27. 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
28. 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
29. A. Bikakis, G. Antoniou: Defeasible Contextual Reasoning in Ambient Intelligence: Theory and Applications. In: Proc. OTM 2010 Workshops, LNCS 6248, Springer 2010, 89
30. G. Antoniou, C. Papatheodorou and A. Bikakis: 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
31. C. Papatheodorou, A. Bikakis and G. Antoniou: On the Deployment of Contextual Reasoning in Ambient Intelligence Environments. In: 6th International Conference on Intelligent Environments (IE'10), IEEE Computing Society 2010, 13-18
32. T. Patkos, A. Bikakis, I. Chrysakis, D. Plexousakis and G. Antoniou: A Reasoning Framework for Ambient Intelligence. In: Proc. SETN 2010, LNCS 6040, Springer 2010, 213-222
33. N. Armenatzoglou, Y. Marketakis, L. Kriara, E. Apostolopoulos, V. Papavasiliou, D. Kampas, A. Bikakis, A. Kapravelos, E. Kartsonakis, G. Linardakis, S. Nikitaki and G. Antoniou: 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
34. A. Bikakis and G. Antoniou: 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
 35. 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
 36. A. Leonidis, G. Baryannis, X. Fafoutis, M. Korozi, N. Gazoni, M. Dimitriou, M. Koutsogiannaki, A. Boutsika, M. Papadakis, H. Papagiannakis, G. Tesseris, E. Voskakis, A. Bikakis and G. Antoniou: 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) . IEEE Press 2009
 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. 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
 39. 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
 40. M. Michou, A. Bikakis, T. Patkos, G. Antoniou and D. Plexousakis: 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
IEEE Press 2008
 41. I. Avguleas, K. Gkirtzou, S. Triantafyllou, 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
 42. A. Bikakis, G. Antoniou: Local and Distributed Defeasible Reasoning in Multi-Context Systems. In: Proc. RuleML'2008 LNCS 5321, Springer 2008, 135-149
 43. 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
 44. A. Bikakis, G. Antoniou: Distributed Defeasible Reasoning in Multi-Context Systems. In: Proc. NMR'08
 45. 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
 46. 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

47. A. Bikakis, G. Antoniou: Distributed Reasoning with Conflicts in a Multi-Context Framework. In: Proc. First International Conference on Advanced Intelligence (ICAI-08) (accepted)
48. A. Bikakis, G. Antoniou: Distributed Reasoning with Conflicts in a Multi-Context Framework. In: Proc. AAI-08
49. G. 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
50. Antonis Bikakis and Grigoris Antoniou: Distributed Reasoning with 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
51. 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 - Aml-07 Workshops , Communications in Computer and Information Science 11, Springer 2008, 14-23
52. Theodore Patkos, Antonis Bikakis, Grigoris Antoniou, Maria Papadopoulou and Dimitris Plexousakis: Distributed AI for Ambient Intelligence: Issues and Challenges . In: Proc. European Conference on Ambient Intelligence (Aml-07), LNCS 4794, Springer 2007, 159-176
53. 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
54. Antonis Bikakis, Theodore Patkos, Grigoris Antoniou, Maria Papadopoulou, 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
55. 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, Trentino , Italy , 2006
56. 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
57. G. Antoniou, T. Skylogiannis, A. Bikakis, N. Bassiliades: A Deductive Semantic Brokering System. Proc. 9th International Conference on Knowledge-Based Intelligent Information & Engineering Systems, LNAI 3682, Springer 2005, 746-752
58. G. Antoniou, T. Skylogiannis, A. Bikakis, N. Bassiliades: DR-BROKERING: A Defeasible Logic-Based System for Semantic Brokering. Proc. 2005 IEEE International Conference on e-Technology, e-Commerce and e-Service (EEE-05), IEEE Press 2005, 414-417
59. Grigoris Antoniou and Antonis Bikakis: DR-Prolog: A System for Reasoning with Rules and Ontologies on the Semantic Web. In Proc: 7th International Symposium on Logical Formalizations of Commonsense Reasoning, Corfu , Greece , May 22-24, 2005
60. Antonis Bikakis and Grigoris Antoniou: DR-Prolog: A System for Reasoning with Rules and Ontologies on the Semantic Web. In Proc. 25th American National Conference on Artificial Intelligence (AAAI-2005), AAAI Press 2005, 1594-1595

61. Grigoris Antoniou, Antonis Bikakis, and Gerd Wagner: A Defeasible Logic Programming System for the Web. In: Proceedings of 16th IEEE International Conference on Tools with Artificial Intelligence (ICTAI'04), Boca Raton , Florida , USA (15th - 16th November 2004)
62. Grigoris Antoniou, Antonis Bikakis, and Gerd Wagner: A System for Nonmonotonic Rules on the Web. Proc. 3rd International Workshop on Rules and Rule Markup Languages for the Semantic Web, LNCS 3323, Springer 2004, 23-36