

CV of Demosthenes Akoumianakis

Department of Electrical and Computer Engineering
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Personal information

Demosthenes Akoumianakis

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Date of birth: 23 – 05 – 1966 Gender / Marital status: Male / Married, two children

dblp page: <https://dblp.uni-trier.de/pers/hd/a/Akoumianakis:Demosthenes>

Google Scholar: <https://scholar.google.com/citations?user=L4JyvD0AAAAAJ&hl=en>

Research Lab: <http://www.istl.hmu.gr/>

Department: <https://www.hmu.gr/ece/>

Employment and Work experience

2019 - Today (Professor, Higher Education / Research)

Hellenic Mediterranean University, Department of Electrical and Computer Engineering

2010 - 2019 (Professor, Higher Education / Research)

Technological Education Institution of Crete, Department of Informatics Engineering

2005 - 2009 (Associate Professor, Higher Education / Research)

Technological Education Institution of Crete, Department of Applied Information Technology & Multimedia

1998 – 2004 (Associated Researcher, Research and Development)

Institute of Computer Science, Foundation of Research & Technology – Hellas

1992 – 1998 (Software engineer, Research and Development)

Institute of Computer Science, Foundation of Research & Technology – Hellas

1991 – 1992 (Software engineer, Industry / Database development)

Co-operative Wholesale Society, Central Manchester Complex, UK

Visiting scholar

2014 (Visiting professor / Higher Education)

University of Derby, UK

2005 – Today (Visiting professor / Higher Education)

Hellenic Open University

Formal education and training

1995 – 1998: PhD (Human Computer Interaction), University of Kent at Canterbury, Department of Electronics, UK
Thesis: 'Knowledgeable' Tools For Evolving HCI Design - Theory and Practice, Unpublished Ph.D. Thesis, University of Kent at Canterbury, Department of Electronics Engineering, 1998.

1992 – 1995: MSc (Human Computer Interaction), University of Kent at Canterbury, Department of Electronics, UK
Thesis: User adaptable Interface Design Environments: Integrating user models and task knowledge for deriving maximally preferred lexical adaptability rules, Unpublished M.Sc. Thesis, University of Kent at Canterbury, Department of Electronics, 1995.

1986 – 1990: BA (HONS) Computing in Business, University of Huddersfield, School of Computing & Mathematics, UK
Final Year Dissertation Thesis: An investigation into query translation in relational database management

systems, Unpublished Final Year Dissertation thesis, University of Huddersfield, Department of Computing & Mathematics, 1990. **1st IBM Prize for Final year dissertation**

Service to professional/academic communities

Contributions to International/European standards

- Invited presentation and position paper, ISO 9241 / TC 159 / SC 4 / WG 5 (1997), Meeting held in conjunction with the Annual ACM Conference on Human Factors in Computing Systems (CHI'97).
- Member of the editorial board for preparing of and contributor to the proposal for a new work item under ISO 9241 / TC 159 / SC 4 / WG 5 on the accessibility of interactive product and services. Work item was finally accepted in 1999.
- Member of CEN/ISSS "Design for all and Assistive Technology" Workshop and participant in several of its meetings

Administrative

- Member of TEI's Council for Research and Education (2013 – today)
- International Advisor Board member, IGI Global Inc. (2008 – Today)
- Director of istLab (2006 – Today)
- Director of Postgraduate Program of Studies 'Informatics & Multimedia' (2012 – 2014)
- Head of Department of Applied Information Technology & Multimedia (2007-2009)
- External reviewer for Greek Higher Education Institutions/Establishments (2006)
- Scientific secretary of the International Scientific Forum on "Towards an Information Society for all" (1997 – 2004) contributing to the preparation of Forum's white papers
- Scientific secretary of the 1st Joint meeting between ERCIM DELOS and ERCIM UI4ALL working groups

Academic / Local advisor of PhD candidates

- Eleni Chatzidaki, Hellenic Open University, PhD candidate (expected defense September 2019)
- Dimitrios Kotsalis, Louvain School of Management (LSM), Université catholique de Louvain (UCL), PhD candidate (defense date is set on 1/7/2019 in Leuven, Belgium)
- George Vellis, Louvain School of Management (LSM), Université catholique de Louvain (UCL), PhD candidate (defense date is set on 1/7/2019 in Leuven, Belgium)

MSc thesis supervision

Completed

- George Ktistakis, Informatics & Multimedia, School of Applied Technology, Technological Education Institution of Crete, Department of Informatics Engineering, Awarded 2014
- Sofia Kozaki, Informatics & Multimedia, School of Applied Technology, Technological Education Institution of Crete, Department of Informatics Engineering, Awarded 2014
- George Vlachakis, Informatics & Multimedia, School of Applied Technology, Technological Education Institution of Crete, Department of Informatics Engineering, Awarded 2015
- Dionysia Mayraki, Informatics & Multimedia, School of Applied Technology, Technological Education Institution of Crete, Department of Informatics Engineering, Awarded 2015
- Nikolaos Karadimitriou, Informatics & Multimedia, School of Applied Technology, Technological Education Institution of Crete, Department of Informatics Engineering, Awarded 2015
- Konstantinos Michailides, Informatics & Multimedia, School of Applied Technology, Technological Education Institution of Crete, Department of Informatics Engineering, Awarded 2015
- George Vellis, Informatics & Multimedia, School of Applied Technology, Technological Education Institution of Crete, Department of Informatics Engineering, Awarded 2015
- Dimitrios Kotsalis, Informatics & Multimedia, School of Applied Technology, Technological Education Institution of Crete, Department of Informatics Engineering, Awarded 2015

- Giannis Koborakis, Informatics & Multimedia, School of Applied Technology, Technological Education Institution of Crete, Department of Informatics Engineering, Awarded 2017

In progress

- Antonios Providakis, Informatics & Multimedia, School of Applied Technology, Technological Education Institution of Crete, Department of Informatics Engineering, MSc candidate

Special issues, Track organization / Chairing and co-chairing

- Program co-chair, 19th Panhellenic Conference on Informatics (ACM Conference Proceedings Series)
- Co-organizer of the 2015 2nd International Workshop on Immersive Communication (IWIC) in conjunction with (6th IISA 2015)
- Co-organizer of the 2015 Workshop on Digital materiality of Smart Objects (DMSOs) in conjunction with (6th IISA 2015)
- Co-organizer of the 2014 International Workshop on Immersive Communication (IWIC) in conjunction with (5th IISA 2014)
- Guest Co-Editor of special issue on 'Social Networking and Mining', International Journal of Virtual Communities and Social Networking, 5(2), 2013.
- Track Co-chair 'Social Networking and Mining', 3rd International Conference on Emerging Intelligent Data and Web Technologies (3rd EIDWT-2012)
- Guest Editor of special issue on Online 'Tells' and the Management of Virtual Communities, International Journal of Virtual Communities and Social Networking (2010)
- ACM SIGCHI Workshop No 14 (co-organizer) on 'Universal design: Towards universal access in the Information Society' at the ACM Annual Conference on Human Factors in Computing Systems (CHI'2001), Seattle, USA.

International archival journals

- Electronic Commerce Research Journal (Springer, Reviewer)
- International Journal of Web Engineering and Technology (Interscience, Editorial Board member)
- Journal of Educational Technology & Society (Executive peer reviewer)
- SpringerPlus Journal (Open Access, Springer)
- Requirements Engineering Journal (Springer, Reviewer)
- Journal of Enterprise Information Management (Emerald, Reviewer)
- International Journal of Virtual Communities and Social Networking (IGI Global, Reviewer)
- Universal Access in the Information Society (Springer, Reviewer)
- International Journal of Human-Computer Interaction (Laurence Erlbaum & Associates, Reviewer)
- Journal of Knowledge Management & eLearning: An international Journal (Open Access, Reviewer)

Program Committee Member (PCM) – 2007 onwards

- PCM of the 2nd International Workshop on Big Data Visual Exploration and Analytics (BigVis2019)
- PCM of the 23th Panhellenic Conference on Informatics (PCI'2019)
- PCM of the 10th International Conference on Information, Intelligence, Systems and Applications (IISA 2019)
- PCM of the 22th Panhellenic Conference on Informatics (PCI'2018)
- PCM of the 21th Panhellenic Conference on Informatics (PCI'2017)
- PCM of the 9th International Conference on Information, Intelligence, Systems and Applications (IISA 2017)
- PCM of the 20th Panhellenic Conference on Informatics (PCI'2016)
- PCM of the 11th International Conference on Knowledge Management in Organizations (KMO'2016)
- PCM of the 6th Special Session on Mobile Device & Web Software Development - Small Systems Development (MDS'D'2016), 20th Panhellenic Conference on Informatics (PCI'2016)

- PCM of the 5th International Conference on Information, Intelligence, Systems and Applications (IISA 2015)
- Program Co-chair of the 19th Panhellenic Conference on Informatics (PCI'2015)
- PCM of the 14th IEEE International Conference on Advanced Learning Technologies (ICALT 2014), Track TeDISABLE: Technology Supported Learning for People with Disabilities (<http://www.ask4research.info/icalt/2014/node/36>)
- PCM of the Fourth International Conference on Information, Intelligence, Systems and Applications (IISA 2014)
- PCM of the International Conference on Telecommunications & Multimedia (TEMU'2014)
- PCM of the 4th Workshop on Mobile Device Software Development and Web Development (2014)
- PCM of the 2013 International Symposium on Intelligent Informatics (ISI-MyScore 2013)
- PCM of the 3rd Workshop on Mobile Device Software Development and Web Development (2013)
- PCM (Senior) of 4th International Conference on Information, Intelligence, Systems and Applications (IISA 2013)
- PCM of the 2nd Workshop on Mobile Device Software Development and Web Development (2012)
- PCM of the IADIS e-Learning 2012 (EL 2012) Conference
- PCM of the User Interface Description Languages 2011 Workshop (UIDL 2011)
- PCM of TEMU'08 and TEMU'10
- PCM of NHIBE'05, NHIBE'07 and NHIBE'09,
- PCM of CSLE'08
- PCM of IADIS International Conference on e-Learning, 2007
- PCM of PCI-HCI'2007
- PCM of 3DTV CON'07: 3DTV-Conference: The true Vision, Capture, Transmission and Display of 3D Video

Conference reviewer - prior to 2007, in addition to the above

- 2nd Cambridge Workshops on Universal Access and Assistive Technology (CWUAAT'2004)
- ERCIM "User Interfaces for All" Workshop, 2004
- International Conference on Human Computer Interaction (HCI International'2003)
- World Congress on Systems Science (SCI'2003)
- International Conference on Universal Access in Human-Computer Interaction (UAHCI'2003)
- World Congress on Systems Science (SCI'2002)
- Adaptive Hypermedia, 2002
- ERCIM "User Interfaces for All" Workshop, 2002
- International Conference on Universal Access in Human-Computer Interaction (UAHCI'2001)
- International Conference on Computer-Aided Design of User Interfaces (CADUI), 2001
- International Conference on Human Computer Interaction (HCI International'2001)
- World Congress on Systems Science (SCI'2001)
- ERCIM "User Interfaces for All" Workshop, 2001
- Tools for Working with Guidelines (TFWWG'2000)
- World Congress on Systems Science (SCI'2000)
- International Conference on Computer-Aided Design of User Interfaces (CADUI), 1999
- International Conference on Human Computer Interaction (HCI International'1999)
- ERCIM "User Interfaces for All" Workshop, 1996-1999

Funded research (as Primary Investigator)

Under review (at TEI Crete)

- MySound, Submitted to FETOPEN-01 (January 2019)

- Including Students with Disabilities in Computer Science Program / CS4ALL, Submitted to Erasmus+ (KA2)

Completed (at TEI Crete)

- **Bio-DRASIS** (2013 – 2016, *SYNERGASIA 2011*, General Secretariat of Research & Technology, Greek Ministry of Education, Life-long learning & Religious Affairs) – Scientific responsible
- **P-nets** (2012 – 2015, *ARXIMEDES III Initiative*, General Secretariat of Research & Technology, Greek Ministry of Education, Life-long learning & Religious Affairs) – Scientific responsible
- **MusiNet** ((2012 – 2015, *THALIS Initiative*, General Secretariat of Research & Technology, Greek Ministry of Education, Life-long learning & Religious Affairs) – Prime investigator, Responsible for TEI-C's contribution.
- **SLIM-Nets** (2012, funded under *Google CS4HS Initiative*) – Scientific responsible
- **EuroCancerComs** (*FP7, Science in Society, 2008 – 2010*) - Prime Investigator, Responsible for the contributions of the Centre for Technological Research (TEIC) web platforms for social networking and collaboration.
- **eKONES** (GSRT, *Regional Operational Program of Crete, 2006 - 2009*) – Scientific responsible / Coordinator
- **DIAMOUSES** (GSRT, *Regional Operational Program of Crete, 2006 - 2009*) - Prime investigator, Responsible for the contribution assigned to the Department of Applied Information Technology & Multimedia of TEI-C.

Involvement in R&D projects at ICS-FORTH (before 2006)

- **HORIZON** (HELIOS) – Contribution to the design and development of computer-based vocational training and educational software for children with learning difficulties.
- **CORE TP 126/203** (TIDE, DG XIII), TIDE 126 – CORE / 1/2/1992 - 31/7/1993, Consensus creation and awareness for R&D activities in Technology for disabled and elderly people
- **TIDE 213 - CORE-II** / 1/8/1993 - 31/1/1995, Consensus creation and awareness for R&D activities in Technology for disabled and elderly people
- **HEART Study** (TIDE, DG XIII) - TIDE 309 – HEART - 1/4/1993 - 30/9/1994, Horizontal European Activities in Rehabilitation Technology
- **ACCESS** (TIDE, DG XIII) - TIDE TP1001 – ACCESS - 1/1/1994 - 31/12/1996, Development platform for unified ACCESS to enabling environments
- **AVANTI** (ACTS, DG XIII) - ACTS AC042 – AVANTI - 1/9/1995 - 31/8/1998, Adaptive and Adaptable Interactions for Multimedia Telecommunications Applications
- **W3C-WAI** (TIDE, DG XIII) - TAP DE4105 – WAI - 1/1/1998 - 30/6/1999, Web Accessibility Initiative
- **iCities** (IST) - IST-1999-11337 – iCities - 1/1/2000 - 31/12/2002, Information Cities
- **IS4ALL** (IST) - IST-1999-14101 - IS4ALL -1/10/2000 - 31/12/2003, Information Society for All
- **D4ALLnet** (IST) IST 2001-38833 - D4ALLnet - 1/1/2003 - 31/12/2005, Design for All Network of Excellence
- **GR-DeAN - OPIS** – GRDeAN - 1/1/2003 - 31/12/2003, Organisation and Support of the National Network "eAccessibility.gr" for Universal Access in the Information Society

Involvement in projects at University of Crete

- **Accessibility Study** - 5/5/2003 - 31/10/2003, Study on "Universal Access and Equal Participation of people with disabilities in the Information Society"

Publications

(Unpublished) Dissertations

1. Akoumianakis, D. (1990): An investigation into query translation in relational database management systems, Unpublished Final Year Dissertation Thesis, University of Huddersfield, Department of Computing and Mathematics. *Supervisor: Prof. Steven Pollit, Awarded the 1st IBM Prize for Final Year Dissertation*
2. Akoumianakis, D. (1995): User adaptable Interface Design Environments: Integrating user models and task knowledge for deriving maximally preferred lexical adaptability rules, Unpublished M.Sc. Thesis, University of Kent at Canterbury, Department of Electronics Engineering. *Supervisor: Prof. M. C. Fairhurst*

- Akoumianakis, D. (1999): 'Knowledgeable' Tools For Evolving HCI Design - Theory and Practice, Unpublished Ph.D. Thesis, University of Kent at Canterbury, Department of Electronics Engineering. *Supervisor: Prof. M. C. Fairhurst*

Co-editing of conference proceedings

- Nikitas N. Karanikolas, Demosthenes Akoumianakis, Mara Nikolaidou, Dimitrios D. Vergados, Michalis Xenos, George M. Giaglis, Stefanos Gritzalis, Lazaros F. Merakos, Panagiotis Tsanakas, Cleo Sgouropoulou: Proceedings of the 19th Panhellenic Conference on Informatics, PCI 2015, Athens, Greece, October 1-3, 2015. ACM 2015, ISBN 978-1-4503-3551-5 (<http://dblp.uni-trier.de/db/conf/pci/pci2015.html>)

Monographs & Edited volumes

- Akoumianakis D., (2006): Designing the user interface – A modern approach, (ISBN 960-209-975-5), Athens: Klidarithmos Press, (in Greek).
- Akoumianakis D., Editor (2009): Virtual Communities of Practice and Social Interactive Technologies: Lifecycle and Workflow Analysis, IGI Global Inc. (<http://www.igi-global.com/book/virtual-community-practices-social-interactive/1031>)

International journals (Full-paper review)

- Akoumianakis, D., Ktistakis, G (2017). Digital calendars for flexible organizational routines, **Journal of Enterprise Information Management** 30 (3), pp. – 476-502.
Akoumianakis, D. (2016). Online 'tells' with cultural bindings: Understanding connectivity in the absence of cultural participants, **International Journal of Virtual Communities & Social Networking**, 8(4), October – December.
- Akoumianakis, D. (2015). Antecedents of boundary spanning e-collaboration, **International Journal of e-Collaboration**, 11(2), 47-73, April-June.
- Gnagnarella P, Misotti AM, Santoro L, Akoumianakis D, Del Campo L, De Lorenzo F, Lombardo C, Milolidakis G, Sullivan R, McVie JG. (2015). Nutritional Online Information for Cancer Patients: a Randomized Trial of an Internet Communication Plus Social Media Intervention, **Journal of Cancer Education**, March, DOI: 10.1007/s13187-015-0820-5
- Akoumianakis, D. (2014). Boundary spanning tactics and 'traceable' connections in cross-organizational virtual alliances: A case study, **Journal of Enterprise Information Management** 27 (2), 197-227.
- Milolidakis, G., Kimble, C., Akoumianakis, D. (2014). Digital Traces for Business Intelligence: A Case Study of Mobile Telecoms Service Brands in Greece, **Journal of Enterprise Information Management** 27(1), 66-98.
- Akoumianakis, D. (2014). Ambient affiliates in virtual cross-organizational tourism alliances - A case study of collaborative new product development, **Computers in Human Behaviour** 30 (January), 773-786 (<http://dx.doi.org/10.1016/j.chb.2013.03.012>).
- Barbounakis, I., Askordalakis, P., Zervakis, M., & Akoumianakis, D. (2014). A Best-Fit Mathematical Model for Maximizing GridFTP throughput based on real and simulated network conditions. **International Journal of Computer Science and Network** 3 (2), pp. 9-15, <http://ijcsn.org/IJCSN-2014/3-2/A-Best-Fit-Mathematical-Model-for-Maximizing-GridFTP-Throughput-Based-on-Real-and-Simulated-Network-Conditions.pdf>
- Akoumianakis, D. (2013). Sociomaterial analysis of Music Notation Lessons: Virtual work and Digital Materialities, **International Journal of Advances in Computer Science & Applications**, Special Issue on Extended Papers from Science and Information Conference 2013, 34-42 <http://dx.doi.org/10.14569/SpecialIssue.2013.030405>
- Akoumianakis, D. Bessis, N. (2013). On 'inscribed' and 'enacted' connectivity: A tutorial introduction, **International Journal of Virtual Communities and Social Networking**, 5(2), 1-10.
- Akoumianakis, D., Karadimitriou, N., Kafousis, I. (2013). Social ties in video-sharing services: The tactics of excavating virtual settlements, **International Journal of Virtual Communities and Social Networking**, 5(2), 27-54.
- Akoumianakis, D., & Alexandraki, C. (2012): Collective Practices in Common Information Spaces: Insight from Two Case Studies, **Human-Computer Interaction**, 27(4), 311-351.
- Vidakis, N., Akoumianakis, D., & Katimeri, C. (2012). Articulating a 3D metaphor for displaying and exploring vacation packages, **3D Research**, 3(1), 1-14. doi:10.1007/3DRes.01(2012)6.
- Akoumianakis, D., Milolidakis, G., Vlachakis, G., Karadimitriou, N., Ktistakis, G. (2011). Retaining and exploring digital traces of online collaboration: Towards an excavation of virtual settlements, **International Journal of Virtual Communities and Social Networking**, 3(4), 46-65.
- Akoumianakis, D. (2011). Learning as 'Knowing': Towards Retaining and Visualizing Use in Virtual Settings, **Educational Technology & Society** (Special issue on "Knowledge Visualization for Learning and Knowledge Management") 14 (3), 55-68.

15. Akoumianakis, D., Vidakis, N., Akrivos, A., Milolidakis, G., Kotsalis, D., Vellis, G. (2011): Building 'Flexible' vacation packages using collaborative assembly toolkits and dynamic packaging: The Case Study of the eKoNES, *Journal of Vacation Marketing* 17 (1), 17-30.
16. Akoumianakis, D., Vidakis, N., Vellis, G., Kotsalis, D., Milolidakis, G., Plemenos, A., Akrivos, A. and Stefanakis, D. (2011) Transformable Boundary Artefacts for Knowledge-based Work in Cross-organization Virtual Communities Spaces, *Journal of Intelligent Decision Technologies*, 5 (1), 65-82.
17. Gnagnarella, P., Misotti, AM., Santoro, L., Akoumianakis, D., Milolidakis, G., De Lorenzo, F., Lombardo, C., Sullivan, R., & Mcvie, G. (2011). A dedicated website for cancer subjects, the nutritional support study: preliminary results, *ecancer medical science*, 5:228 doi: 10.3332/ecancer.2011.228.
18. Akoumianakis, D. (2010): Online 'Tells' and the Management of Virtual Communities, Guest Editorial, *International Journal of Virtual Communities and Social Networking* 2(4), i-v.
19. Akoumianakis, D. (2010): Tracing Community Life Across Virtual Settlements, *International Journal of Virtual Communities and Social Networking*, 2(4), 51-63.
20. Alexandraki, C., & Akomianakis D. (2010): Exploring New Perspectives in Network Music Performance: The DIAMOUSES Framework, *Computer Music Journal*, 34(2), 66-83.
21. Akoumianakis, D. (2010): Specifying the Global Execution Context of Computer-Mediated Tasks: A Visual Notation and a Supporting Tool, *Journal of Software Engineering & Applications*, 3 (4), 312-330 doi:10.4236/jsea.2010.34037.
22. Akoumianakis D. (2010): Electronic community factories: The model and its application in the tourism sector, *Electronic Commerce Research*, 10 (1), 43-81.
23. Akoumianakis D. (2009): Designing practice-oriented toolkits: A retrospective analysis of communities, new media and social practice, *International Journal of Virtual Communities and Social Networking*, 1 (4), 50-72.
24. Akoumianakis D. (2009): Practice-oriented toolkits for virtual communities of practice, *Journal of Enterprise Information Management*, 22(3), 317-345.
25. Akoumianakis D. (2009): Managing accessibility requirements in software-intensive projects, *Software Process: Improvement & Practice*, 14 (1), 3-29.
26. Akoumianakis D. (2008): Distributed knowledge management in virtual organizations: The 'social' experience factory, *Electronic Journal of Knowledge Management*, 6(1), 13-32.
27. Akoumianakis D. (2008): Designing an 'electronic village' of local interest on tourism: The eKoNES framework, *Interdisciplinary Journal of Information, Knowledge, and Management*, 3, 115-134.
28. Akoumianakis, D., Stephanidis, C. (2005). Building consensus in HCI design: Integrated Activity-Oriented Design Environments. *International Journal of Human Computer Interaction*, 18 (1), 85 – 103
29. Akoumianakis, D. & Stephanidis, C. (2003). Blending scenarios and informal argumentation to facilitate universal access: Experience with the Universal Access Assessment Workshop method, *Behaviour & Information Technology*, 22 (4), 227 – 244
30. Akoumianakis, D. & Stephanidis, C. (2003). Multiple Metaphor Environments: designing for diversity, *Ergonomics*, 46 (1-3), 88-113.
31. Jacko, J.A., Salvendy, G., Sainfort, F. (Eds.), Emery, V.K., Akoumianakis, D., Duffy, V.G., Ellison, J., Gant, D.B., Gill, Z., Ji, J.Y., Jones, P.M., Karsh, B-T., Karshmer, A.I., Lazar, J., Peacock, B., Resnick, M.L., Sears, A., Smith, M.J., Stephanidis, C., & Ziegler, J. (2002). Intranets and Organizational Learning: A Research and Development Agenda. *International Journal of Human-Computer Interaction*, 14 (1), 93-130.
32. Stephanidis, C., & Akoumianakis, D. (2002). Towards a design code of practice for universal access in Health Telematics, *Universal Access in the Information Society*, 1 (3), 223-226.
33. Grammenos, D., Akoumianakis, D., & Stephanidis, C. (2000). Integrated Support for Working with Guidelines: The Sherlock Guideline Management System. *Interacting with Computers*, 12 (3), 281-311.
34. Akoumianakis, D., Savidis, A., & Stephanidis, C. (2000). Encapsulating Intelligent Interactive Behaviour in Unified User Interface Artefacts. *Interacting with Computers*, 12 (4), 383-408.
35. Stephanidis, C., Akoumianakis, D., Paramythis, A., & Nikolaou, C. (2000). User Interaction in Digital Libraries: Coping with Diversity through Adaptation. *International Journal on Digital Libraries*, 3 (2), 185-205.
36. Akoumianakis, D., & Stephanidis, C. (1999). Propagating experience-based accessibility guidelines to user-interface development. *Ergonomics*, 42 (10), 1283-1310.
37. Stephanidis, C. (Ed.), Salvendy, G., Akoumianakis, D., Arnold, A., Bevan, N., Dardailler, D., Emiliani, P.L., Iakovidis, I., Jenkins, P., Karshmer, A., Korn, P., Marcus, A., Murphy, H., Oppermann, C., Stary, C., Tamura, H., Tscheligi, M.,

- Ueda, H., Weber, G., & Ziegler, J. (1999). Toward an Information Society for All: HCI challenges and R&D recommendations. *International Journal of Human-Computer Interaction*, 11 (1), 1-28.
38. Stephanidis C. (Ed.), Salvendy, G., Akoumianakis, D., Bevan, N., Brewer, J., Emiliani, P.L., Galetsas, A., Haataja, S., Iakovidis, I., Jacko, J., Jenkins, P., Karshmer, A., Korn, P., Marcus, A., Murphy, H., Stary, C., Vanderheiden, G., Weber, G., & Ziegler, J. (1998). Toward an Information Society for All: An International R&D Agenda. *International Journal of Human- Computer Interaction*, 10 (2), 107-134.
39. Stephanidis, C., & Akoumianakis, D. (1997). Preference-based Human Factors Knowledge Repository for Designing User Interfaces. *International Journal of Human-Computer Interaction*, 9 (3), 283-318.
40. Akoumianakis, D., & Stephanidis, C. (1997). Supporting user-adapted interface design: The USE-IT system. *Interacting with Computers*, 9 (1), 73-104.
41. Akoumianakis, D., & Stephanidis, C. (1997). Knowledge-based Support for User-Adapted Interaction Design. *Expert Systems with Applications: an international journal*, 12 (2), 225-245.
42. Vernardakis, N., Stephanidis, C., & Akoumianakis, D. (1997). The Transfer of Technology towards the European Assistive Technology Industry: Current Impediments and Future Opportunities. *International Journal of Rehabilitation Research*, 20 (2), 189-192.
43. Vernardakis, N., Stephanidis, C., & Akoumianakis, D. (1997). Transferring technology towards the European AT Industry: Mechanisms and Implications. *Assistive Technology Journal*, 9 (1), 34-46.
44. Vernardakis, N., Stephanidis, C., & Akoumianakis, D. (1995). On the impediments to innovation in the European Assistive Technology industry. *International Journal of Rehabilitation Research*, 18 (3), 225-243.
45. Stephanidis, C., Vernardakis, N., & Akoumianakis, D. (1994). The demand, supply and provision system of the Rehabilitation Technology market in Europe: A modelling perspective. *International Journal of Rehabilitation Research*, 17 (4), 343-356.
46. Vernardakis, N., Stephanidis, C., & Akoumianakis, D. (1994). Rehabilitation Technology product taxonomy: a conceptual tool for analysing products and extracting demand determinants. *International Journal of Rehabilitation Research*, 17 (3), 201-214.

Chapters in Encyclopedias (Full-paper review)

1. Milolidakis, G., Kimble, C., Akoumianakis, D., Karadimitriou, N. (2014). An excavation-based model for Business Intelligence in Social Media. In John Wang (Ed.) *Encyclopaedia of Business Analytics and Optimization*, IGI Global Inc.
2. Stephanidis, C., & Akoumianakis, D. (2001). Knowledge Management in HCI design. In W. Karwowski (Ed.), *International Encyclopaedia of Ergonomics and Human Factors*, Vol. 1, pp. 705-710. Philadelphia: Taylor & Francis.
3. Stephanidis, C., Akoumianakis, D., & Savidis, A. (2001). Universal Design in Human-Computer Interaction. In W. Karwowski (Ed.), *International Encyclopaedia of Ergonomics and Human Factors*, Vol. 1, pp. 741-745. Philadelphia: Taylor & Francis.
4. Stephanidis, C., & Akoumianakis, D. (2000). Knowledge-based Interaction Design. In A.Kent (Ed.), *The Encyclopaedia of Library and Information Science*, Volume 66, Supplement 29 - Automated System for the Generation of Document Indexes to Volume Visualization, pp.186-217. New York: Marcel Dekker, Inc. (ISBN: 0-8247-2066-0).

Chapters in handbooks and edited collections (Full-paper review)

1. Akoumianakis, D., Mayraki, D. (2016). Using conversational knowledge management as a lens for virtual collaboration in the course of small group activities. In G.A. Tsihrantzis et al. (eds.), *Intelligent Computing Systems, Studies in Computational Intelligence* 627, DOI 10.1007/978-3-662-49179-9_5, Springer.
2. Akoumianakis, D. (2011). Recurrent Interactions, Acts of Communication and Emergent Social Practice in Virtual Community Settings. In Daniels B. (Ed.) *Handbook of Research on Methods and Techniques for Studying Virtual Communities: Paradigms and Phenomena*, (pp. 34-60), IGI Global Inc.
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Papers in proceedings of international conferences and workshops (Abstract review)

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1. Kotsalis D., Milolidakis G., Vellis G., Akoumianakis D. (2008). CommonsBoard: Tracing, discovering & sharing multimedia community artefacts, TEMU'08, Crete.

2. Plemenos, A., Milolidakis G., Vellis, G., Kotsalis D., Akoumianakis, D. (2008). Exploring relational data sets using a 3D metaphor, TEMU'08, Crete.

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3. Akoumianakis, D., Zacharopoulos, V. (2005): Software-intensive Project Management: Reflections from the synergistic integration of process-oriented software engineering, capability maturity models & object-oriented methods, Proceedings of International Conference on "New Horizons in Industry and education'2005", Corfu (August 25-27).

4. Papadourakis, G., Akoumianakis, D., Kaliakatsos, Y. (2005): Scenario-based learning in small to medium sized groups of learners, Proceedings of GCETE'2005.

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5. Akoumianakis, D., Stephanidis, C. (2003): A validated code of practice for universal access in Health Telematics. In C. Stephanidis (Editor), Universal Access in HCI – Inclusive Design in the Information Society, (Proceedings of HCI International' 2003, Vol. 4), pp. 1063-1067, Mahwah, NJ: Lawrence Erlbaum Associates.

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10. Savidis, A., Akoumianakis, D., & Stephanidis, C. (1999). Unified User Interfaces: from design to implementation. In H.-J. Bullinger & J. Ziegler (Eds.), *Human-Computer Interaction: Communication, Cooperation, and Application Design [Proceedings of the 8th International Conference on Human-Computer Interaction (HCI International '99)]*, Munich, Germany, 22-26 August (vol. 2, pp. 782-786). Mahwah, New Jersey: Lawrence Erlbaum Associates.
11. Akoumianakis, D., Sfyraakis, M., Paramythis, A., & Stephanidis, C. (1999). Universal accessibility: Process-oriented design guidelines. In H.-J. Bullinger & J. Ziegler (Eds.), *Human-Computer Interaction: Communication, Cooperation, and Application Design [Proceedings of the 8th International Conference on Human-Computer Interaction (HCI International '99)]*, Munich, Germany, 22-26 August (vol. 2, pp. 807-811). Mahwah, New Jersey: Lawrence Erlbaum Associates.
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Invited position papers in international conferences and workshops

1. Akoumianakis, D. & Stephanidis, C. (2003). A design code of practice for universal access: Micro- and macro-level methods and techniques. Presented in the course of the workshop "Selecting best practice research methods for HCI: beyond fashion statements", chaired by Ray Adams and Pat Langdon, HCI International 2003, Heraklion, Crete, Greece.
2. Akoumianakis, D., & Stephanidis, C. (2000). Multiple Metaphor Environments: Architectural premises for continuous interactions. Presented in the course of the ACM Workshop on "Continuity in Human Computer Interaction", ACM Annual Conference on Human Factors in Computing Systems (CHI) 2000, The Hague, the Netherlands, 1-6 April (6 pages).
3. Stephanidis, C., & Akoumianakis, D. (1998). Multiple Metaphor Environments: Issues for effective interaction design. In *Proceedings of the 8th ERCIM - DELOS Workshop on "User Interfaces for Digital Libraries"*, Stockholm, Sweden, 21-23 October (5 pages).
4. Stephanidis, C., & Akoumianakis, D. (1996). ERCIM Collaborative Interaction Design Toolset. In C. Stephanidis (Ed.), *Proceedings of the 2nd ERCIM Workshop "User Interfaces for All"*, Prague, Czech Republic, 7-8 November (6 pages).
5. Stephanidis, C., & Akoumianakis, D. (1996). [Interaction in an ERCIM Virtual Laboratory](#). In C. Stephanidis (Ed.), *Proceedings of the 2nd ERCIM Workshop "User Interfaces for All"*, Prague, Czech Republic, 7-8 November (2 pages).

Poster presentations in international conferences

1. Akoumianakis, D., & Stephanidis, C. (1997). Propagating Human Factors Knowledge to User Interface Development. In *Abridged Proceedings of the 7th International Conference on Human-Computer Interaction (HCI International '97)*, San Francisco, USA, 24-29 August (pp. 21).
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Articles in ERCIM News

1. Stephanidis, C., & Akoumianakis, D. (2001, July). IS4ALL: An analytical insight into universal access. *ERCIM News, Special Theme: Human Computer Interaction*, 46, 11-12.

- Stephanidis, C., & Akoumianakis, D. (2002, October). Consensus Creation on Universal Access in Health Telematics. *ERCIM News, Special Theme: Semantic Web*, 51, 49-50.

Invited talks

- Akoumianakis, D. (2014): Digital materiality of human and non-human actors, DISYS research seminar, University of Derby, Department of Computing & Mathematics (13 October).
- Akoumianakis, D. (2003): Designing novel virtualities, Technical University of Crete, Department of Electronic and Computer Engineering (25 November), Kounoupidiana, Chania.
- Akoumianakis, D. (2003): Activity-oriented design environments for HCI, University of Peloponnese (28 November), Tripolis, Arkadia, Greece.
- Akoumianakis, D. (2003). A design code of practice for universal access: Micro- and macrolevel methods and techniques. Presented in the course of the workshop "Selecting best practice research methods for HCI: beyond fashion statements", chaired by Ray Adams and Pat Langdon, HCI International 2003, Heraklion, Crete, Greece.
- Akoumianakis, D. (2001): Tools for HCI design and evaluation. Invited talk to postgraduate students of the Computer science Department of the University of Crete, Main amphitheatre at ICS-FORTH, Science and Technology Park of Crete.
- Akoumianakis, D. (1998). Multiple Metaphor Environments: Issues for effective interaction design, Joint ERCIM UI4ALL and DELOS Workshop, Stockholm, Sweden.
- Akoumianakis, D. (1996): Designing accessible user interfaces: Challenges and technological opportunities, Technical Chamber of Heraklion, Crete, Greece.

Tutorials in international conferences

- Akoumianakis, D. (2007): Electronic Villages: Design challenges and current research. Summer School on 'Applied Informatics and Digital Multimedia', Technological Education Institution of Crete, Heraklion, Crete.
- Akoumianakis, D. (2006): Electronic Villages. Summer School on 'Applied Informatics and Digital Multimedia', Technological Education Institution of Crete, Heraklion, Crete.
- Akoumianakis, D. (2006): Intelligent Community Interfaces. Summer School on 'Designing intelligent Systems', Technological Education Institution of Crete, Heraklion, Crete
- Stephanidis, C., Savidis, A., & Akoumianakis, D. (2001). Tutorial on "Engineering Universal Access: Unified User Interfaces". Tutorial in the *1st Universal Access in Human-Computer Interaction Conference (UAHCI 2001)*, jointly with the *9th International Conference on Human-Computer Interaction (HCI International 2001)*, New Orleans, Louisiana, USA, 5-10 August.
- Stephanidis, C., Savidis, A., & Akoumianakis, D. (2001). [Tutorial on "Universally accessible UIs: The unified user interface development"](#). Tutorial in the *ACM Conference on Human Factors in Computing Systems (CHI 2001)*, Seattle, Washington, 31 March - 5 April.
- Stephanidis, C., Akoumianakis, D., & Paramythis, A. (1999). [Tutorial on "Coping with Diversity in HCI: Techniques for Adaptable and Adaptive Interaction"](#). *Tutorial no 11 in the 8th International Conference on Human-Computer Interaction (HCI International '99)*, Munich, Germany, 22-26 August.
- Stephanidis, C., Savidis, A., & Akoumianakis, D. (1997). [Tutorial on "Unified Interface Development: Tools for Constructing Accessible and Usable User interfaces"](#). *Tutorial no 13 in the 7th International Conference on Human-Computer Interaction (HCI International '97)*, San Francisco, USA, 24-29 August.

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- Vernardakis, N., Stephanidis, C., & Akoumianakis, D. (1993, December). *A Conceptual Framework for determining critical aspects of innovation in the European Rehabilitation Technology market*. ICS-FORTH / TR 104, Heraklion, Crete, Greece (17 pages).
- Vernardakis, N., Stephanidis, C., & Akoumianakis, D. (1993, December). *On the determinantsof innovation in the European Rehabilitation (Assistive) Technology market*. ICS-FORTH / TR 105, Heraklion, Crete, Greece (16 pages).
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- Stephanidis, C., Vernardakis, N., & Akoumianakis, D. (1993, December). *The demand, supply and provision system of the Rehabilitation Technology market in Europe: A modelling perspective*. ICS-FORTH / TR 107, Heraklion, Crete, Greece (17 pages).

5. Stephanidis, C., Vernardakis, N., & Akoumianakis, D. (1993, December). *An analytical framework for Modelling the Rehabilitation (Assistive) Technology market in Europe*. ICSFORTH / TR 108, Heraklion, Crete, Greece (13 pages).
6. Stephanidis, C., Vernardakis, N., & Akoumianakis, D. (1993, December). *Critical aspects of demand in the Assistive Technology market in Europe*. ICS-FORTH / TR 109, Heraklion, Crete, Greece (19 pages).
7. Vernardakis, N., Stephanidis, C., & Akoumianakis, D. (1993, December). *Technology transfer and the Rehabilitation Technology industry in Europe*. ICS-FORTH / TR 110, Heraklion, Crete, Greece (19 pages).
8. Stephanidis, C., Akoumianakis, D., & Vernardakis, N. (1993, June). *A methodological Approach for Modelling the Rehabilitation Technology market in Europe*. ICS-FORTH / TR- 090, 93 pages, Heraklion, Crete, Greece (95 pages).