

CURRICULUM VITAE



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Over three decades of his career in academia, he has investigated many different fields beginning with **Operations Research (OR)**. Many of the papers he published at that time were on traffic when he was a Research Assistant at Royal Holloway College, University of London.

In his first teaching position at Reading University, he taught **statistics** which gradually led to his disillusionment with the ability of this discipline to capture the “messiness” or complexity of real world problems. This realisation led him first to **Fuzzy Sets and Systems** and then to **Systems Thinking** and **Soft Systems**, thereby acknowledging the emergence of the need to accept and to engage with the notion of interdisciplinarity in dealing with human centred systems. The power of these epistemological tools remained with him and he brought them to bear on issues to do with decision aiding and, in general, problem understanding and formulation in many different areas. Making use of the rapid advances in computing power, **Simulation** tools were also part of his research interests that led to innovations in designs for application in human activity systems, and always accepting and accommodating complexity.

In one of his first research programmes funded by the EU, (1989) he became aware of the then fairly new field of **Human Computer Interaction**. This accorded well with his interests and he went on to further research and teach in this area (at the University of Athens, 1996-7; at Athens University of Economics, (1998-2001) as well at Abo Akademi University of Turku, Finland, 1997- where he was made docent-). The field, mainly populated by those with backgrounds in Computer Science or Psychology, was focusing on human centred systems that were dependent upon computers, using the tools from the relevant disciplines. However, it was, and still remains, a field open to multi- and inter- disciplinarity.

His present research interests include the fairly new theoretically grounded field of **cognitive systems** as well as the application area of **service design**.

Alongside these evolving research interests, he committed himself wholeheartedly to supporting the University of the Aegean, firstly as a founding member of the Department of Mathematics, (1987) and later of the Department of Information and

Communication Systems (1994) (where he also served as first Head of Department) and finally, conceiving a School of Design and establishing the Department of Product and Systems Design Engineering in 2000. This being the first Greek state funded University design department, the model followed was that of a multidisciplinary school, where students would acquire a predominantly theoretical grounding so that they would be able to apply their knowledge and skills to a wide variety of environments where design is called for. The curriculum ranges from ‘hard’ science courses to ‘soft’ art and design, but behind it all lies the philosophy of systems thinking, that the whole (holon) is greater than the sum of the parts. This way of thinking brings a great difference to the activity of Design.

EDUCATION

Undergraduate studies

1975 BSc in Mathematics, University of Athens 1975.

Postgraduate studies

1977 MSc in Operational Research, University of Sussex, U.K.

Title of Master’s Thesis: “*Operational Research in Library Decision Making*”

1981 PhD in Operational Research, University of London, U.K.

Title of PhD Thesis “*Aspects of Decision Making by Drivers entering priority traffic streams: causes and effects*”

WORK EXPERIENCE - ACADEMIC POSITIONS

University of the Aegean 2000 – present	Professor, Head of Dept., Dept of Product and Systems Design Engineering, Founding member, Director of the Postgraduate courses
University of the Aegean 1998 – 1999	Professor, Head of Dept., Dept of Information and Communication Systems, Founding member
University of the Aegean 1994 – 2000	Professor, Dept. of Mathematics, Founding member Director of the Research Laboratory of Samos
Abo Akademi University, Turku Finland 1997 – to date	Visiting Professor (Docent). Institute of Advanced Management Systems Research
University of Athens 1998 – 2001	Visiting Professor, Dept. of Economic Sciences
Athens University of Economics 1996 – 1997	Visiting Professor, Dept. of Informatics and Business
University of the Aegean 1989 – 1994	Associate Professor, Dept. of Mathematics Director of the Research Laboratory of Samos
University of Thessaly 1989 – 1990	Visiting Associate Professor Department of Planning and Regional Development
University of the Aegean 1987 – 1989	Associate Professor, Depts. of Business Administration and of Mathematics
University of the South Bank 1984 – 1987	Senior Lecturer / Principal Lecturer, Dept. of Mathematical Sciences and Computing

University of Reading 1982 – 1984	Lecturer , Dept. of Applied Statistics.
University of London 1979 – 1982	Research Assistant , Dept. of Mathematics, Royal Holloway College.

ACADEMIC ACTIVITIES

Memberships and Affiliations

At various times in my career, depending on the changes of focus of my work, I have been a member of a number of professional societies relevant to my research interests at the time. including the IEEE; the British Operational Research Society: Fellow of the Statistical Society; the Greek O.R. Society; the Greek Computer Society; Greek Society for Artificial Intelligence; European Working Group on Decision Support Systems (EURO EWG6), etc. and was Greek national representative to IFIP TC-13 (HCI),

Editorial Boards

On the **editorial board** of the Journal of Decision Systems, the on-line Journal of Universal Computer Science (JUCS), the Journal of Applied Systems Studies (JASS), the Operational Research an International Journal (ORIJ), eMinds, etc.

Reviewer for a number of journals including the Journal of Fuzzy Sets and Systems, Journal of the Operational Research Society, Computers and Operational Research, etc.

International research collaborations

Recent and ongoing collaborations with Universities and Research institutes include: University of Napoli, Italy; Open University , UK; Loughborough University, U.K.; University of Valencia, Spain; University of the Basque Country, Spain; Waterford Institute of Technology, Ireland;, Abo Akademi, Finland; Fraunhofer Institute for Applied Information Technology, St Augustin, Germany, BTEExact, UK, Catholic University of Louvain, Belgium, Drexel University, USA; TSSG, Waterford Institute of Technology, Ireland; Trinity College, Dublin, Ireland, etc.

RESEARCH INTERESTS

They are wide ranging and include:
Human Computer Interaction (HCI), Interaction Design, Decision Support Systems, Systems Thinking, Fuzzy Sets and Reasoning with Uncertainty, Simulation, Design of Information Systems, Design for All, Design Theory, Design Methods and Methodologies, Cognitive Systems, Service Design.

ACADEMIC – CONFERENCE AND OTHER ACTIVITIES

He has been the Chair of a number of Conferences and Workshops, such as the 12th National Conference of Operational Research, 6th Workshop of EURO Working Group on Decision Support Systems, Samos Workshop on Task Based Explanation, Aegean Seminar, 5th Hellenic Conference on Artificial Intelligence, etc. Also he has been a member of scientific Committees of a large number of Conferences and workshops.

He has supervised a fair number of PhD Theses on themes and issues which range **from** Traffic/Simulation, Computer Security, Decision Support Systems, Middleware, Human Computer Interaction, Cross Media Technologies, **to** Interaction Design, Web Design, Accessibility, Design of Interactive Autonomous Systems, Cognitive Models, Ambient Intelligence, etc.

RESEARCH PROJECTS

Project manager and site leader in many European-wide EU funded projects, as well as nationally funded projects:

EU funded

1. Research funded by the Transport and Road Research Laboratory, Department of the Environment, UK on the Simulation of Traffic and Driver Behaviour, Sept. 79 - Sept. 82.
2. User Requirements Analysis of High Technology in Education, Jan. 89 - Aug. 89, part of the STARTUP - COMNET project (COMNET project 7030) funded by **DELTA**.
3. Interactive Dialogues for Explanation and Learning, (IDEAL Basic Research Action, 3160) Oct. 89-Sept. 92, funded by **ESPRIT**.
4. Rural Area Delivery of Information and Organisation, (RADIO, Project no 02001), subcontractors to INTRASOFT, funded by **ORA**.
5. Network Security Protection SECURENET (RACE R2057) Sept. 91 - Sept. 92 funded by **RACE**.
6. Assaying Means of Design Expressions for Users and Systems (AMODEUS 2), (Basic Research Action 7040) July 92 - July 95 funded by **ESPRIT**.
7. An Intelligent System for Preventing and Detecting Attacks in Open Networks (SECURENET II, RACE), Jan. 94 - Jan 96., funded by **RACE**.
8. Integration of High Performance Services for Interactive Vocational Training (RENAISSANCE), funded by **ACTS**, Oct. 1995 - Feb. 1998.
9. Industrial Prototype for an Intelligent Intrusion Prevention and Detection System for Open Networks (SECURENET), funded by **VALUE**, Jan. 1996 - July 1996.
10. Generic Architecture for Information Availability (GAIA) funded by **ACTS**, July 1996- Dec. 1998
11. Getting Education Systems Talking across Leading-Edge Technologies (GESTALT), funded by **ACTS**, Sept.98 – Aug. 2000.
12. Learning Centre Manager Qualification (LeCMAQ), funded by **LEONARDO**, , Jan. 99–2000
13. Gateway for User Access to Remote Distributed Information and Network Services (GUARDIANS), funded by **IST**, July 2000 – July 2002.
14. Incorporating Requirements of People with Special Needs (IRIS), funded by **IST**, Jan 2001 – June 2003.

15. Inclusive Design Curriculum Network (IDCnet), Thematic Network **IST**-2001-38786, August 2002 – June 2003.
16. Benchmarking Tools for The Web (BenToWeb) funded by **IST** Sept. 2004 – Aug. 2007.
17. e Accessibility Network (eAccess+) funded by **ICTPSP** FP7, Sept 2010-August 2013

Industry led Projects with EU funding (a selection of)

1. F-JEWEL, Functional Jewellery That Adds Aesthetics And Durability To Quality-Of-Life Enhancing Medical Appliances. Eureka EU. 2006
2. RIGHTFIT, Making Garments That Fit Consumers' Needs And Wants. Eureka EU. 2005
3. EQUAL ΝΕΩΠΙΟΝ II – Promoting the competitiveness and the safeguarding of labour force of shipyards. Partially funded by the European Union 2002-2004

Nationally funded: (Britain Greece) (a selection of)

1. Project funded by the Greek Ministry of the Aegean, for Development of Simulation Models and Applications of Decision Support Systems in Commercial Shipping. Oct. 87 - 90.
2. Project funded by the National Organisation of Medicine, on development and applications of information systems and diagnostic expert systems, in Primary Health Care in Aegean Island Regions. Sept. 89 - Sept. 91.
3. Project funded by the Greek Ministry of Industry, Research and Technology, for the development of Task Based Intelligent Tutoring Systems for use in Higher Education Establishments, Jan 91 - Jan. 92, in collaboration with G.I.S. Ltd.
4. Tele-administration in the eastern Macedonia, Thrace, and Northern Aegean Islands, funded by the Ministry of Research and Technology (**ΕΠΙΕΤ II**), Dec. 1995 - June 1998.
5. Use of Telematics in the Development of the less favoured Aegean Islands, funded by the Research Unit of the University of the Aegean, 1996.
6. Conceptual Model Design of Information Systems for the Archives of the National Mortgage Bank, funded by Technognosi Ltd, Jan. 95 – Dec 96.
7. AEGEAN-NET, Aegean Archipelago Multimedia Integrated Network, funded by the Ministry of Education and EU (**EPEAEK**), Nov. 96 – Dec.99.
8. Networks of Experts / Ikaros. Safety Reliability and Quality in Information and Telecommunication Technologies (1996-). Project Funded By the General Secretary of Research and Technology.
9. Establishment and Operation of the Department of Information and Communication Systems at the University of the Aegean (**EPEAEK**), (1997-).
10. ODYSSEAS, Design and Implementation of Secondary Education Integrated Network Support in the Aegean Archipelago, (based on the Aegean-net), funded by the Ministry of Education and EU (**EPEAEK**), Jan. 98 – Dec. 99
11. Interlinkage of Undergraduate and Postgraduate Studies in the Area of Information Systems, funded by the Ministry of Education and EU (**EPEAEK**), Aug.98 – Dec 99.
12. Study of Possible Exploitations of the Property and Infrastructure of the University of the Aegean, funded by the Ministry of Education and EU (**EPEAEK**), Aug.98 – Dec 99.

13. Support Services for the Implementation and Function of the Network of the Aegean Archipelago (ASKOI TOU AILOLOU), funded by the Operational Programme of Education and Initial Training, (June 1998 – Dec 2000).
14. Establishment and Operation of the Department of Product and Systems Design at the University of the Aegean, (**EPEAEK**), (1998).
15. Design and Development of the Panhellenic schools network (EDU-Net), funded by the Operational Programme of Education and Initial Training (1999).
16. Analysis and study of Network Services of Secondary Education, (EDUnet), funded by the Operational Programme of Education and Initial Training (1999).

Also involved in other projects funded by EU programmes such as AIM, INFOSEC, CEN, VALUE, LIBRARY, as well as in ERASMUS programmes, and a number of Greek projects, networks of excellence on Information Systems Security and EDI.

DEVELOPMENT OF NEW COURSES, UNDERGRADUATE AND POSTGRADUATE, AND NEW DEPARTMENTS

1. University of the Southbank 1986 MSc in Knowledge Based Systems
2. University of the Aegean 1987 Founding member of Mathematics Dept Samos
3. University of the Aegean 1994 Founding member of Information and Communications Dept Samos
4. University of the Aegean, 1999-Founder of Dept of Product and Systems Design Engineering
5. University of the Aegean, Dept of Product and Systems Design Engineering
 - a. 2003 MSc in Design of Interactive and Industrial Products and Systems
 - b. 2007 MSc in Holistic Therapeutic Systems- Classical Homeopathy
6. Cyprus University of Technology, 2006-today member of the Advisory Committee for Department of Multimedia and Graphic Arts. Also involved in the Curriculum Development of that Department.

CITATIONS

Over 350 citations have been counted, many of which pertain to publications from 1980's & 90's that are being referred and used by scholars post 2007.

PUBLICATIONS

Journal Publications

1. DARZENTAS, J. MCDOWELL, M.R.C., COOPER, D.F. (1980) Minimum Acceptable Gaps and Conflict Involvement in a Simple Crossing Manoeuvre. Traffic Engineering and Control, 21, (2), pp.58-61.
2. DARZENTAS, J., HOLMS, V., MCDOWELL, M.R.C. (1980) Driver Behaviour at a T- Junction in Daylight and Darkness. Traffic Engineering and Control, 21, (4), pp. 186-189.

3. DARZENTAS, J., COOPER, D.F., STORR, P.A., McDOWELL, M.R.C. (1980) Simulation of Road Traffic Conflicts at T-Junctions. *Simulation*, 34, (5), pp. 155-164,.
4. OVUWORIE, G.C., DARZENTAS, J., McDOWELL, M.R.C. (1980) Free Movers Followers and Others: a Reconsideration of Headway Distributions. *Traffic Engineering and Control*, 21, (8 & 9), pp. 425-428.
5. DARZENTAS, J., McDOWELL, M.R.C. (1981) Driver Behaviour at unlit Non-Urban T- Junctions in Daylight and Darkness. *Journal of Operational Research Society*, 32, pp. 721-727.
6. CHRISSIKOPOULOS, V., DARZENTAS, J., McDOWELL, M.R.C. (1982) Aspects of Headway distributions and Platooning on Major Roads. *Traffic Engineering and Control*, 23, (5), pp. 268-271.
7. McDOWELL, M.R.C. WENNELL, J. STORR, P.A. DARZENTAS, J. (1983) Gap Acceptance and Traffic Conflict Simulation as a Measure of Risk. TRRL SR 776, Transport and Road Research Laboratory, Crowthorne, Berkshire, England, 1983.
8. CHRISSIKOPOULOS, V., DARZENTAS, J., McDOWELL, M.R.C. (1983) Deceleration of Major Road Vehicles Approaching a T-Junction. *Traffic Engng. and Control*, 24, (9), pp. 433-436.
9. DARZENTAS, J., BAIRAKTARIS, P. (1986) On the Set Partitioning Type Formulation for the Discrete Location Problem. *Computers and Operations Research*, 13, pp. 671-679.
10. J. DARZENTAS, (1987) A Discrete Location Model With Fuzzy Accessibility Measures. *Fuzzy Sets and Systems*, 23, pp. 149-154.
11. PAPOULIAS, D. B., DARZENTAS, J. (1990) OR in Greece: Myth and Reality. *European Journal of Operational Research*, 49, pp. 289 - 294.
12. DARZENTAS, J., SPYROU, T.(1993) Information Systems for Primary Health Care: the Case of the Aegean Islands, *European Journal of Information Systems*, Vol. 2, No. 2, pp.177 - 127.
13. DARZENTAS, J. (1993) Knowledge Systems for Island Problems: Using Systems Thinking and Knowledge Formalisms for Eliciting and Representing Task Knowledge. in *Systems Practice*, Vol. 6, No. 5, pp. 541 - 548.
14. DARZENTAS, J., DARZENTAS, J.S., SPYROU, T. (1995) DDAS: a Designers' Decision Aiding System. *Journal of Decision Systems*, Vol 4, no 1, pp. 9 - 22.
15. DARZENTAS, J., SPYROU, T. (1996) Ferry Traffic in the Aegean Islands: A Simulation Study, *Journal of Operational Research Society*. Vol.47, no. 2 pp. 203-212.

16. KATSIKAS, S., SPYROU, T., GRITZALIS, D., DARZENTAS, J. (1996) A Model for Network Behaviour under Viral Attack, *Computers and Communications Journal*, Vol. 19, pp124-132.
17. DARZENTAS, J., DARZENTAS, J.S., SPYROU, T. (1997) Choosing Appropriate Tools by Means of Intelligent Decision Support. *Journal of Decision Systems*, Vol. 6, pp 45 - 62.
18. DARZENTAS, J. TSAGARIS, CH. (2000)Application of a Modified OWA Operator to a Designer Decision Support System (DDAS), *International Journal of General Systems*, Vol. 29,no.1, pp. 103-121 (*This is a revised version the paper that appeared in the Proceedings of the 3rd International FLINS Workshop, Sept. 1998*).
19. KONSTANTOPOULOS, M., DARZENTAS, J.S., KOUTSABASIS, P., SPYROU, T., DARZENTAS, J. (2001) Towards Integration of Learning Objects Metadata and Learner Profiles Design: Lessons from GESTALT. *Journal of Interactive Learning Environments*. Vol. 1, pp.1-24.
20. KONSTANTOPOULOS, M., SPYROU, T., DARZENTAS, J. (2001) The Need for Academic Middleware to Support Advanced Learning Services. *Computer Networks Journal*. Vol. 37/6, 2001, pp.771-779.
21. KONSTANTOPOULOS, M., SPYROU, T., KOUTSABASIS, P., DARZENTAS, J.S., LAMBRINOUDAKIS, C., DARZENTAS, J. (2001) The Role of Directory Services in Online Education Delivery: The Gestalt Example. *Journal of Continuing Engineering Education and Lifelong Learning (IJCEELL)*. Vol.11, no 1 / 2, 5-24.
22. LAMBRINOUDAKIS, C., MAISTROS, G., BOFILIOS, D. AND DARZENTAS, J. (2003), An architecture for an intelligent support system for design validation and manufacturing of aerospace components. *International Transactions in Operational Research*, 10:351–363.
23. KARACAPILIDIS, N., VOUIROS, G. AND DARZENTAS, J. (2003), Applying intelligent agents technology in a collaborative work environment. *International Transactions in Operational Research*, 10:13–31.
24. ARNELLOS, A., LEKKAS, D., SPYROU, T., DARZENTAS, J. (2005). A Framework for the Analysis of the Reliability of Digital Signatures for Secure E-commerce, *The electronic Journal for e-commerce Tools & Applications (eJETA)*, Vol.1, No.4.
25. ARNELLOS, A., SPYROU, T., DARZENTAS, J (2006). Exploring Creativity in the Design Process: A Systems-semiotic Perspective, *Cybernetics and Human Knowing*, vol.14, no 1. 37-64.
26. ARNELLOS, A., VOSINAKIS, S., SPYROU, T., DARZENTAS, J. (2006) The Emergence of Autonomous Representations in Artificial Agents, *Journal of Computers*, (JCP) Vol.1 Issue:6, , 29-36.

27. ARNELLOS, A., SPYROU, T., DARZENTAS, J. (2006). Dynamic Interactions in Artificial Environments: Causal and Non-Causal Aspects for the Emergence of Meaning, *Journal of Systemics, Cybernetics and Informatics*, Vol.3, No.1.
28. ARNELLOS, A., SPYROU, T., DARZENTAS, J. (2007) Cybernetic Embodiment and the Role of Autonomy in the Design Process, *Kybernetes*, Vol. 36 No. 9/10, pp. 1207 – 1224
29. MAVROMMATI, I., DARZENTAS, J. (2007) End User Development in AmI: a user centered design overview of issues and concepts, *eMinds* vol 1, no.3 available at <http://www.eminds.uniovi.es/>
30. ARNELLOS, A., SPYROU, T., DARZENTAS, J. (2008). Emergence and Downward Causation in Contemporary Artificial Agents: Implications for their Autonomy and Some Design Guidelines, *Cybernetics and Human Knowing* Vol. 15, No 3-4, pp. 15-41.
31. VOSINAKIS, S. KOUTSABASIS, P. STAVRAKIS, M, VIORRES, N. DARZENTAS, J. (2008) Virtual Environments for Collaborative Design: Requirements and Guidelines from a Social Action Perspective *CoDesign: International Journal of CoCreation in Design and the Arts*, Taylor and Francis, Vol. 4 No. 3, pp. 133-150
32. ARNELLOS, A., SPYROU, T., DARZENTAS, J. (2008). Meaning needs functional emergence: Shedding novel light into difficult problems, *Cybernetics and Human Knowing*, Vol. 15, No 3-4, pp. 50-56.
33. KOUTSABASIS, P., STAVRAKIS, M., VIORRES, N., DARZENTAS, J.S., SPYROU, T. AND DARZENTAS, J. (2008) A Descriptive Reference Framework for Personalisation of E-business *Electronic Commerce Research*, Vol. 8 , No. 3, pp. 173-192.
34. DARZENTAS, J.S., DARZENTAS, J. (2008) Design for All: Socially Responsible Design or just good sense?-The role of education and research in getting the message across. *The Ethicomp Journal*, Vol 3, no 2, available at <http://www.ccsr.cse.dmu.ac.uk/journal/currentissue.html> (last accessed July 2010)
35. KOUTSABASIS, P. AND DARZENTAS, J. (2009) Methodologies for Agent Systems Development: Underlying Assumptions and Implications for Design *AI & Society*, Vol. 23, No 3, pp. 379-407
36. ARNELLOS, A., SPYROU, T., DARZENTAS, J. (2010) Towards the Naturalization of Agency based on an Interactivist Account of Autonomy, *New Ideas in Psychology*, vol. 28, no. 3, pp. 296-311
37. KOUTSABASIS, P. STAVRAKIS, M. SPYROU, T. DARZENTAS, J. (2011) Perceived impact of asynchronous e-learning after long-term use: implications for design and development *International Journal of Human-Computer Interaction*, Taylor & Francis. Vol. 27, No. 2, pp 191-203

38. XENAKIS I. ARNELLOS, A. SPYROU, T. DARZENTAS, J. (accepted for publication). Modelling the Aesthetic judgment: An Interactive Semiotic Framework, *Cybernetics and Human Knowing*
39. XENAKIS, I. ARNELLOS, A., DARZENTAS, J (accepted for publication) The role of emotions in aesthetic judgement *New Ideas in Psychology*. (Elsevier)
40. ARNELLOS, A., EL-HANI C, VOSINAKIS S., QUEIROZ J., DARZENTAS J. (accepted for publication). A Biosemiotic Modeling of Signal Transduction in the B-cells Activation: Implications for Simulation Methods, *Biosemiotics*
41. ARNELLOS, A., LEKKAS, D., ZISSIS, D., SPYROU, T., DARZENTAS, J. Fair Digital Signing: The Structural Reliability of Signed Documents. *Computers and Security* (accepted for publication).

42. **Chapters in Books**

1. McDOWELL, M.R.C., DARZENTAS, J., WENNELL, J. (1981) Driver Gap Acceptance as a Measure of Risk. In: *Road Safety Research and Practice*, by H.C. Foot, A.J. Chapman, F.M. Wade (Eds), Praeger, pp. 27-34, 1981.
2. DARZENTAS, J. (1987) On Fuzzy Location Models. In: *Optimization Models Using Fuzzy Sets and Possibility Theory*, by J. Kacprzyk, S.A. Orlovski (Eds), pp.328 - 341, Reidel 1987.
3. DARZENTAS, J. (1987) Knowledge Modelling in Fuzzy Expert Systems. In: *Uncertainty in Knowledge Based Systems*, by R. Yager, B. Bouchon, pp. 159 - 178 Springer Verlag, 1987.
4. DARZENTAS, J. (1989) Modelling Fuzzy Knowledge for Soft OR. In: *Interfaces between Artificial Intelligence and Operations Research in Fuzzy Environment*, by J. L. Verdegay, and M. Delgado, pp. 117 - 126, Verlag TUV Rheinland, 1989.
5. DARZENTAS, J. (1992) Artificial Intelligence and Systems for Knowledge Systems in Island Societies, In: *International Systems Science Handbook*, R. R. Delgado, B. H. Banathy, I. Tsivacou, (eds) Aegean Seminar Edition, 1992.
6. DARZENTAS, J., DARZENTAS, J.S., SPYROU, T. (1995) An Architecture for Designer Decision Aiding - DDAS. In: *DSS - Galore*, M. Brannback, T. Leino (Eds), Abo Akademi, Turku, (1995), pp. 115 - 132.
7. SPYROU, T. DARZENTAS, J. (1995) Artificial Intelligence in Information Systems Security, In: *Information Security*, E. Kiountouzis, N. Alexandris (Eds.), pp.135 - 154, 1995.
8. J. DARZENTAS, J.S. DARZENTAS, T. SPYROU (1996) Helping the User to Make Use of the Tools: Transferring Research Results from the Laboratory to the Market by means of Intelligent Decision Support. In Varghese and Pleger, (Eds) *Human Comfort and Security of Information Systems*. Springer Verlag, 1996.

9. J.DARZENTAS, J.S. DARZENTAS, (2000) Greece: Office Work with VDUs In M. Rauterberg, Krueger, H. (eds) *The EU Directive 90/270 on VDU-Work: IPO Report* Eindhoven The Netherlands, 2000.
10. MAVROMATI, E. DARZENTAS, J. (2003) Editorial of Special Session, Design Education in the Time of the Disappearing Computer, in Kameas, A. and Streitz, N. *Tales of the Disappearing Computer*, Ekdisis Ellinika Grammata,
11. BRANDS, M., ARNELLOS, A., SPYROU, T., DARZENTAS, J. (2007). A Biosemiotic Analysis of Serotonin's Complex Functionality, in Guenther Witzany (ed.) *'Biosemiotics in Transdisciplinary Contexts* pp. 125-132, Umweb, Helsinki
12. ARNELLOS, A., SPYROU, T., DARZENTAS, J. (2008). Naturalising the Design Process: Autonomy and Interaction as the Core Features, forthcoming in *'Beyond Description: Normativity in Naturalised Philosophy'*, (Eds.) Marcin Milkowski and Konrad Talmont-Kaminski, College Publications

Edited books

1. DARZENTAS, J., DARZENTAS, J.S., SPYROU T. (Eds), *Perspectives on DSS*. University of the Aegean Press, 1996.
2. DARZENTAS, J., VOUIROS, G.A. VOSINAKIS, S. ARNELLOS A. (Eds.) *Artificial Intelligence: Theories, Models and Applications*. Proceedings of the 5th Hellenic Conference on AI, (SETN) Lecture Notes in Computer Science 5138 Springer 2008

Conference Publications

1. DARZENTAS, J. (1983) Gap Acceptance: Myth and Reality. In: Proceedings of the Eighth International Symposium on Transportation and Traffic Flow Theory, by V.F. Hurdle, E. Hauer, G.N. Steuart (Eds), University of Toronto Press, pp. 175-192.
2. DARZENTAS, J. (1986) On the Use of Fuzzy Expert Systems in Office Automation. Proc. of the 7th National Conference of the Greek Operational Research Society, pp. 423 - 432.
3. DARZENTAS, J. (1987) The Role of Information Technology in Quantitative Methods. Proc. of the 1st Symposium on Quantitative Methods, J. Karkazis (ed), pp.61 - 71.
4. DARZENTAS, J., LOUKOPOULOS, N., DARZENTAS, J.S., SPYROU, T. (1991) Task Knowledge Structures in Designing Intelligent Tutoring Systems Architecture. Proceedings of the Third National Conference of the Greek Computer Society, Vol.1, pp. 435 - 448.

5. DARZENTAS, J., SPYROU, T. (1991) The Application of Soft Systems Methodology in the Design and Development of Information Systems for Primary Health Care. The Case of Island Ecosystems. Proceedings of the Third National Conference of the Greek Computer Society, vol. 2, pp. 128 - 141.
6. DARZENTAS, J. (1992) Fuzzy Reasoning in Task Based Explanation: Explanations for Decisions. Proc. of the International Workshop on Task Based Explanation, J. Darzentas, A. G. Sutcliffe, P. Johnson, G. Ferrari, (eds), June -, pp. 27-32
7. DARZENTAS, J. DARZENTAS, J. S., SPYROU, T. (1993) Explanation Provision for Decision Aiding in Intelligent Systems, Proc. of the 4th National Conference of the Greek Computer Society, Vol. 1, pp. 169-186.
8. GRITZALIS, D. KATSIKAS, S. DARZENTAS, J. (1994) A High Level Security Policy for Health Care Environments, In: IFIP SEC94, Proceedings of the 10th International Conference on Information Security, The Netherlands.
<http://www.iaik.tu-graz.ac.at/TC11/SEC94/index.html>
9. SPIRAKIS, P. et. al., DARZENTAS, J. et al., (1994) SECURENET: A Network Oriented Intrusion Prevention and Detection Intelligent System, In: IFIP SEC94, Proceedings of the 10th International Conference on Information Security, The Netherlands. <http://www.iaik.tu-graz.ac.at/TC11/SEC94/index.html>
10. DARZENTAS, J. DARZENTAS, J.S. SPYROU, T.(1994) Fuzzy Reasoning and Systems Thinking in a Decision Aid for Designers, In: Proceedings of the Second European Congress on Intelligent Techniques and Soft Computing, 'EUFIT 94' Aachen, Germany, vol 3, pp. 1609-1618.
11. GRITZALIS, D., DARZENTAS, J., KATSIKAS,S. (1994) Risk Management in Hospital Information Systems: Experiences, Tendencies and Prospects. Proceedings of the 3rd Hellenic Conference on Medical Informatics, Thessaloniki.
12. SPYROU, T., SUTINEN, E., DOUMA, A., PUTKONEN, H., DARZENTAS J. (1995) Applying SICS: A Technique for Software Modules Communication. Proceedings of the Fifth National Conference of the Greek Computer Society, Vol.1, pp. 165 - 176.
13. SPYROU, T., DARZENTAS, J., SFETSOU, K. (1995).Application of Artificial Intelligence Techniques in Network Management Security: An Expert System Application for the Detection of Abnormal Behaviour. Proceedings of the Fifth National Conference of the Greek Computer Society, Vol.1, pp. 187 - 202.
14. DARZENTAS, J.S., SPYROU, T., BENAKI, E., DARZENTAS, J. (1995) A Designer's Decision Aiding System. Proceedings of the Fifth National Conference of the Greek Computer Society, Vol.2, pp. 615 - 627, 1995.
15. LAOPODIS, V., FERNANDEZ, F., GRITZALIS, D., DARZENTAS, J. (1995) Evaluation of ICT policy option by the public, using the awareness scenario workshops methodology Proc of the 2nd European Conference on IT Investment

- Evaluation, A. Brown, D. Remenyi (eds) Operational Research Society, UK, pp.302-311.
16. DARZENTAS, J.S., BENAKI, E., SPYROU, T., DARZENTAS, J. (1995) Implementing a Designer's Decision Aiding System (DDAS) Proceedings of the Euro Working Group on Decision Support Systems, Samos May 1995, pp 33-47.
 17. DARZENTAS, J., SPYROU, T., TSAGARIS, C. (1995) Evaluating Option-related Text Descriptions for Decision Aiding, Proceedings of the Euro Working Group on Decision Support Systems, Samos May 1995, pp 27-32.
 18. SPYROU, T., DARZENTAS, J. (1996) Intention Modelling: Approximating Computer User Intentions for Detection and Prediction of Intrusions. Proceedings of IFIP SEC 1996, pp.319-337.
 19. DARZENTAS, J., TSAGARIS C. (1997) Fuzzy Operators in Decision Support, Proceedings of the 11th National Conference of the Greek Operational Research Society, Vol1, pp.338 – 349.
 20. KOUTSABASIS, P., DARZENTAS, J.S., SPYROU, T., DARZENTAS, J. (1998) An Interaction Agent in a Brokerage Environment: Methodology, Design and Application, short paper, Proceedings of first ACM SIGART International Workshop on Interaction Agents, held in conjunction with ACM AVI98 (Advanced Visual Interfaces) pp. 58-61, L'Aquila, Italy, 24 May 1998
 21. TSAGARIS, C., DOYMA, A., SPYROU, T., DARZENTAS, J. (1998) Simulation of the Aegean Network, Proceedings of the 12th National Conference of the Greek Operational Research Society, 1998, pp.437-453.
 22. KONSTANTOPOULOS, M., SPYROU, T., DARZENTAS, J. (1998) A Virtual Vocational Training Environment: The Renaissance Experience. Proceedings of the 12th National Conference of the Greek Operational Research Society, pp.571-587.
 23. KOUTSABASIS, P., DARZENTAS, J.S, SPYROU, T., DARZENTAS, J. (1998) Intelligent Agents and Information Brokerage, Proceedings of the 12th National Conference of the Greek Operational Research Society, pp.1023-1042.
 24. DARZENTAS, J., TSAGARIS, C. (1998) Application of a Modified OWA Operator to a Designer Decision Support System (DDAS), Proceedings of the 3rd International FLINS Workshop, Sept. 1998..Fuzzy Logic and Intelligent Technologies for Nuclear Science and Industry, World Scientific Singapore, pp75-82.
 25. KOUTSABASIS, P., DARZENTAS, J.S., SPYROU, T., DARZENTAS, J. (1999) Facilitating User-System Interaction: the GAIA Interaction Agent. Proceedings of the 32nd Hawaii International Conference on System Sciences (HICSS-32) IEEE. pp. 322, 5-8 January 1999, Maui, Hawaii, IEEE.
<http://computer.org/proceedings/hicss/0001/00018/0001toc.htm>
 26. KOUTSABASIS, P., DARZENTAS, J.S., SPYROU, T., LAMBRINOUDAKIS, C., DARZENTAS, J. (2000) Aiding Designers to Design for All: The IRIS

Approach, Proceedings of 6th ERCIM workshop, "User interfaces for all" 25-26 October, CNR-IROE, Florence, Italy. pp345-347

27. KONSTANTOPOULOS, M., SPYROU, T., DARZENTAS, J. (2001) The Deployment of an Academic Middleware to Support Advanced Learning Services, TERENA Networking Conference 2001, Antalya – Turkey 14-17 May.
<http://www.terena.nl/tech/projects/middleware/emw2001proceedings.html>
28. KOUTSABASIS, P., DARZENTAS, J.S., ABASCAL, J., SPYROU, T., DARZENTAS, J. (2001) Designing Internet-based Systems and Services for All: Problems and Solutions, Proceedings of the 1st International Conference on User Access in Human-Computer Interaction UAHCI 2001, Vol. 3, pp. 31-35, August 5-10, , New Orleans, LA, USA., held under the same organisation with 9th International Conference on Human-Computer Interaction
29. KOUTSABASIS, P., DARZENTAS, J. S., SPYROU, T., VELASCO, C. A., GAPPA, H., NORDBROCK, G., DARZENTAS, J. (2001) Enhancing the Applicability and Impact of Recommendations and Tools for Accessibility of Internet Services, presented in INTERACT 2001 (8th IFIP TC 13 conference on Human-Computer Interaction) (Workshop on issues on the application of guidelines to the design of HCI systems for older people and people with disabilities)
30. DARZENTAS, J. S., HEWETT, T., SPYROU, T., DARZENTAS, J. (2001) Bringing Human Computer Interaction into a Department of Product and Systems Design. INTERACT2001, Eighth IFIP TC.13 Conference on Human-Computer Interaction, Tokyo, JAPAN July 9-13, 2001.pp 488-495
31. THEODOROPOULOS, V., KOUTSABASIS, P., DARZENTAS, J.S., SPYROU, T., DARZENTAS, J. (2001) Designing a Postgraduate Curriculum in Information Systems: A Greek case. Ninth Annual European Conference on Information Systems (ECIS 2001), June 27-29, 2001.pp1070-1080
32. KOUTSABASIS, P., DARZENTAS, J. S.,SPYROU, T., VELASCO,C.A, MOHAMAD, Y., DARZENTAS, J. (2001)Towards an Environment that supports Internet Design for All in Proceedings of 1st Panhellenic Conference on Human-Computer Interaction, 2001, Patras, Greece, pp. 281-286M.
33. KONSTANTOPOULOS, DARZENTAS, J.S, SPYROU, T., DARZENTAS, J. (2002) Information Provision to Individual and User Profiles Proceedings of the International Network Conference 2002, INC 2002, Plymouth, UK. on CD
34. VELASCO, C.A, MOHAMAD, Y., GAPPA, H., NORDBROCK, G., PIEPER, M., DARZENTAS, J., DARZENTAS J.S., KOUTSABASIS, P., SPYROU, T. (2002) IRIS: Towards a design environment that supports Internet for All International Conference on Assistive Technology 2002 (ICAT 2002), pp. 1-7.
35. SPYROU, T., DARZENTAS J.S., KOUTSABASIS, P., PAPADOPOULOS, C., HANDS,J., DARZENTAS, J. (2002) Application and Evaluation of Standard–Based, Web-Brokerage Services: Addressing Industrial Designers Needs for Technical Data, in Proceedings of 30th International Conference on Computers

and Industrial Engineering June28th-July2nd, 2002, Tinos Island, Greece, pp.857-862

36. SPYROU T, VLACHOGIANNIS E, ARNELLOS A, DARZENTAS J. (2003) Towards a framework for creating design support environments for adaptive systems, in the Proceedings of the HCI International, Crete, Greece, in Jacko, J. Stephanidis C.(Eds), Human Computer Interaction: Theory and Practice pp153-157.
37. VIORRES N., ARNELLOS A., KOUTSAMBASIS P., DARZENTAS J.S., SPYROU T., CARLOS V., MOHAMAD Y., DARZENTAS J. (2003) An approach for personalisation and content adaptation for accessible Internet Services based on user and device profiles in the Proceedings of the HCI International, Crete, Greece, in Jacko, J. Stephanidis C.(Eds), Human Computer Interaction: Theory and Practice, pp637-641.
38. STAVRAKIS M., SPYROU T., DARZENTAS J. (2003) Synthesising Creativity: Systems to support interactive human creative processes for aesthetic product design, in Proceeding of the HCI International, pp243-247.
39. DARZENTAS J.S., DARZENTAS J. (2003) Design for All Knowledge and Key Knowledge and Skill Sets for Information and Communication Products, Services and Systems in Proceedings of the HCI International, pp. 53-57
40. NOMIKOS S., DARZENTAS J.S., POLITIS A.E., SPYROU T., DARZENTAS J. (2003) To print or not to print (digitally)? Innovative digital printing characteristics and their degree of penetration in print media markets, in Proceedings of International Conference on Cross Media Delivery (CMSD 2003) Santorini, May, pp.49-60.
41. ARNELLOS, A., SPYROU, T., DARZENTAS, J (2003). Towards a Framework that Models the Emergence of Meaning Structures in Purposeful Communication Environments. In Wilby, J. Allen, K.A. (Eds) *The 47th Annual Conf. of the Int. Society for the Systems Sciences (ISSS)* 3(103).
42. DARZENTAS, J.S. AND DARZENTAS, J. (2003)Teaching Design for All in Critical Motivations and New Dimensions, in *Proceedings of 2nd Educational Design Conference, ICSID (International Council of Societies of Industrial Design)* pp.69-73.
43. DARZENTAS, J. et al. (2003). IRIS: An Open Environment that Supports Inclusive Design of Internet Applications. - In M. Rauterberg et al (Eds). *International Conference on Human-Computer Interaction, INTERACT*, 749-752, Zurich
44. ARNELLOS ARGYRIS, SPYROU THOMAS , DARZENTAS JOHN, (2004). Analysis of the design of a framework supporting meaning processes in living and artificial systems *The 48th Annual Conf. of the Int. Society for the Systems Sciences (ISSS)*, Monterey, CA, USA.

45. DARZENTAS, J.S., AND DARZENTAS J: (2004) 'Design for All': Socially Responsible Design or just good sense? In Bynum, T.W., Pouloudi, N., Rogerson, S., Spyrou, T. (Eds): *Challenges for the Citizen of the Information Society, Proceedings of the 7th International Conference Ethicomp*, pp 237-249, 2004. (later published in Ethicomp Journal 2008)
46. ARNELLOS, A., SPYROU, T., DARZENTAS, J (2004). Extending Artificial Agency to Incorporate Ethics-oriented Social Interaction. *The Seventh ETHICOMP International Conference on the Social and Ethical Impacts of Information and Communication Technologies*, 2004, Syros, Greece pp. 51-65
47. ARNELLOS, A., SPYROU, T., DARZENTAS, J (2004). Dynamic Interactions in Artificial Environments: Causal and Non-Causal Aspects for the Emergence of Meaning. - *The 8th World MultiConference in Systemics, Cybernetics and Informatics*, 2004, Orlando, FL, USA – best paper award.
48. D. LEKKAS, D., ARNELLOS, A., SPYROU, T., DARZENTAS, J. (2005) Pervasive Digital Signatures: Syntactic robustness and simplicity of signed documents, In *Proceedings of the IEEE SecPerU'05, Security, Privacy and Trust in Pervasive and Ubiquitous Computing*, Santorini, Greece, pp.21-28.
49. ARNELLOS, A., SPYROU, T., DARZENTAS, J. (2005). A Framework Supporting Creativity in the Design Process: A Systems-theoretic Perspective, In *the 6th International Conference of the European Academy of Design (EAD06)*, March 29-31 2005, University of the Arts, Bremen, Germany.
50. VLACHOGIANNIS E., DARZENTAS, J.S., ARNELLOS, A. SPYROU T., DARZENTAS J. (2005). The accessibility of web applications: the case of portals and portlets - *HCI International, Universal Access in HCI: Exploring New Dimensions of Diversity* (Volume 8, Proceedings of the 3rd International Conference on Universal Access in Human-Computer Interaction, 22—27 July 2005, Las Vegas, Nevada). New Jersey: Lawrence Erlbaum Associates.
51. ARNELLOS, A., SPYROU T., DARZENTAS J. (2005) The Emergence of Interactive Meaning Processes in Autonomous Systems, In: *Proceedings of FIS 2005: Third International Conference on the Foundations of Information Science*. Paris, July 4-7, 2005.
52. NOMIKOS, S. KOUTSABASIS, P. DARZENTAS J.S. SPYROU T. DARZENTAS, J. (2006) Towards a Conceptual Framework for the Design of Smart Packaging Services in Print and Cross-Media: the Role of Decision Support Systems, *The International Conference Printing Technology*, St Petersburg, Russia, 2006
53. ARNELLOS, A., VOSINAKIS, S., SPYROU, T, DARZENTAS, J: (2006). Towards Representational Autonomy of Agents in Artificial Environments, *SETN06, Lectures Notes in Artificial Intelligence, (LNAI)*, pp. 474-477 Springer-Verlag
54. MAVROMMATI I. DARZENTAS J. (2006) *An overview of AmI from a User Centered Design Perspective* Proceedings of the 2nd IET International

Conference on Intelligent Environments (IE06), 5-6 July 2006, Athens, Greece.
Published by IET pp.81-88

55. ARNELLOS, A., BRANDS, M., SPYROU, T., DARZENTAS J. (2006). A Biosemiotic Analysis of Serotonin's Complex Functionality, in *the 6th International Biosemiotics*, Salzburg, Austria
56. KOUTSABASIS, P. SPYROU, T. AND DARZENTAS, J. (2007) Evaluating Usability Evaluation Methods: Criteria, Method and a Case study Lecture Notes in Computer Science, Vol. 4550, pp 569-578 Springer, Proceedings of the 12th International Conference on Human-Computer Interaction, Beijing, China, 2007.
57. STAVRAKIS, M. VIORRES, N. KOUTSABASIS, P. DARZENTAS, J. (2007) A Theoretical Framework of Co-Purposing in Systems Design Lecture Notes in Computer Science, Vol. 4558, pp176-184Springer, Proceedings of the 12th International Conference on Human-Computer Interaction, Beijing, China
58. VIORRES, N., PAPADOPOULOS, X., STAVRAKIS, M., VLACHOGIANNIS, E., KOUTSABASIS, P., DARZENTAS, J. (2007) Major HCI Challenges for Open Source Software Adoption and Development Lecture Notes in Computer Science, Vol. 4564, pp 455-464 Springer, Proceedings of the 12th International Conference on Human-Computer Interaction, Beijing, China
59. MAVROMMATI I. DARZENTAS J (2007) End User Tools for Ambient Intelligence Environments: an overview. in proceedings of 12TH HCI International Beijing, China pp 864-872 Human-Computer Interaction-Interaction Platforms and Techniques, Lecture Notes in Computer Science, Springer,
60. KOUTSABASIS, P. SPYROU, T. DARZENTAS, J.S. AND DARZENTAS, J. (2007) On the Performance of Novice Evaluators in Usability Evaluations, 11th Panhellenic Conference on Informatics (PCI 2007) Patras, Greece, 18-20 May.
61. VOSINAKIS, S., KOUTSABASIS, P., STAVRAKIS, M., VIORRES, N., DARZENTAS, J. (2007) Supporting Conceptual Design in Collaborative Virtual Environments, 11th Panhellenic Conference on Informatics (PCI 2007) at Patras, Greece, 18-20 of May 2007.
62. STAVRAKIS, M., CHNARAKIS, N., GAVOGIANNIS, A., SPYROU, T., & DARZENTAS, J. (2007). A multi-methodological view for the collaborative design of virtual environments. Presented at the 4th Intuition International Conference and Workshop, Athens
63. VIORRES, N., XENOFON, P., STAVRAKIS, M., VLACHOGIANNIS, E., KOUTSABASIS, P., & DARZENTAS J. (2007). Major HCI Challenges for Open Source Software Adoption and Development. In *Lecture Notes in Computer Science*, Online Communities and Social Computing (Vol. 4558, pp. 455-464). Springer
64. STAVRAKIS, M., VIORRES, N., KOUTSABASIS, P., & DARZENTAS, J. (2007). A Theoretical Framework of Co-purposing in Systems Design. In *Lecture*

Notes in Computer Science, Human Interface and the Management of Information. Interacting in Information Environments (Vol. 4558, pp. 176-184). Springer

65. VOSINAKIS, S., KOUTSABASIS, P., STAVRAKIS, M., VIORRES, N., & DARZENTAS, J. (2007). Supporting Conceptual Design in Collaborative Virtual Environments. Presented at the 11th Panhellenic Conference on Informatics (PCI 2007), Patras, Greece.
66. KOUTSABASIS, P., DARZENTAS, J. (2008) Item-based Filtering and Semantic Networks for Personalized Web Content Adaptation in E-Commerce Lecture Notes In Artificial Intelligence; Vol. 5138, pp. 148-159 Springer, Proceedings of the 5th Hellenic conference on Artificial Intelligence: Theories, Models and Applications (eds. J. Darzentas, G. Vouros, A. Arnellos, S. Vosinakis) 2-4 October, Syros, Greece
67. ARNELLOS A, VOSINAKIS, S ANASTASAKIS, G. DARZENTAS J. (2008). Autonomy in Virtual Agents: Integrating Perception and Action on Grounded Representations, in John Darzentas, George A. Vouros, Spyros Vosinakis, Argyris Arnellos (Eds.) Artificial Intelligence: Theories, Models and Applications, *LNAI 5138*.
68. D. LEKKAS, S. VOSINAKIS, C. ALIFIERIS AND J. DARZENTAS, (2008) "MarineTraffic: Designing a Collaborative Interactive Vessel Traffic Information System, The International Workshop on Harbour, Maritime & Multimodal Logistics Modelling and Simulation, HMS'08 Amantea Italy Sept 2008
69. PEPONI, K., ARNELLOS, A., SPYROU, T. & DARZENTAS, J. (2009) A new way of classifying and comparing systemic methodologies. In *the 23rd European Conference on Operational Research, EURO XXIII*, Bonn, July 5-8th
70. PEPONI K., ARNELLOS, A. SPYROU, T. & DARZENTAS, J. (2009) Analysis and comparison of systemic methodologies for organisational design. In the 5th National & International Conference of the Hellenic Society for Systemic Studies: *From Systems Thinking to Systems Design & Systems Practice*, Xanthi June 24-27th.
71. ARNELLOS, A., CHARITAKIS, G., DARZENTAS, J., Naturalizing Health: A Biosemiotic perspective, to be presented in *Biosemiotics 2011*
72. XENAKIS I., ARNELLOS, A., DARZENTAS, J. Emotions and their Functional Role in Aesthetic Judgment, to be presented in *Interactivist Summer Institute (ISI) 2011*