

Curriculum Vitae

Name: Thomas Spyrou

Address:

University of the Aegean
84100 Hermoupolis, Syros
Tel +30 22810 97116
Fax +30 22810 97009
e-mail: tsp@aegean.gr

Areas of interest

Systems Design
Systems Thinking
Decision Support Systems
Information Systems Design
Simulation
Artificial Intelligence
Intelligent Agents
e-learning

Education

University of the Aegean, PhD, Dept of Mathematics, 1999. [thesis.pdf in Greek]
National and Kapodistrian University of Athens, BSc, Dept of Physics, 1987.

Teaching Experience

19.4.2001–today: Asst Professor, Dept. of Product & Systems Design Engineering, Univ of the Aegean
1.11.1999-18.4.2001: Lecturer, Dept. of Information & Communication Systems, Univ of the Aegean
23.5.1987-31.10.1999: Senior Analyst, Information Systems Consultant.
1.2.1998-31.10.1999: Lecturer (P.D. 407/80) Dept. of Information and Communication Systems,
University of the Aegean
1.9.1995-31.1.1998: Lecturer (P.D. 407/80) Dept. of Mathematics, University of the Aegean

Courses:

Systems Design, Introduction to Systems Theory, Design Theory and Methodologies, History of Design and Technology, Informatics, Programming Methodologies & Techniques, Computer Laboratory, Interaction Design, Human-Machine Interaction, Design for All

Research Projects

European

- ESPRIT / IDEAL (Basic Research Action - BRA 3160) Interactive Dialogues for Explanation and Learning. (Oct. 89 - Sept. 92)
- ESPRIT / AMODEUS (BRA 7040) Assaying Means of Design Expressions for Users and Systems (Jun. 92 - Jun. 95)
- RACE / SECURENET (R057) Network Security and Protection. (Sept. 91 - Sept. 92)
- RACE / SECURENET II (R2133) An Intelligent System for Preventing and Detecting Attacks in Open Networks. (Jan 94 - Jan 96)
- INNOVATION (IN10250 VALUE) / SECURENET III Industrial prototype for an Intelligent Intrusion Prevention and Detection System for Open Networks (Jan 96 – Dec 96)
- ACTS (AC100) / RENAISSANCE Integration of High Performance Services for Interactive Vocational Training. (Oct 95 – Dec 97)
- ACTS (AC221) / GAIA Generic Architecture for Information Availability. (July 96–Dec 98)

- ACTS project GESTALT AC367 Getting Education Systems Talking Across Leading-Edge Technologies (July 98 – Feb 2000)
- Leonardo / LeCMaQ: Learning Centre Manager Qualification, Project No: UK/98/2/05845/PI/II.1.1.b/FPC (Jan 99 -)
- IST project GUARDIANS IST-1999-20758 Gateway for User Access to Remote Distributed Information and Network Services (July 2000-)
- IST project IRIS IST-1999-26211 Incorporating Requirements of People with Special Needs or Impairments to Internet-based systems and Services (Jan 2001 -)
- Inclusive Design Curriculum Network (IDCnet), Thematic Network **IST-2001-38786**, August 2002 – June 2003.
- Benchmarking Tools for The Web (BenToWeb) funded by, **IST** Sept. 2004 – Aug. 2007.

National

- AEGEAN-NET, project funded by the Greek Ministry of Education for the design and development of the Aegean wide area network (Sept. 1996 -)
- Analysis and study of Network Services of Secondary Education, EDUnet - (1999 -), funded by the Operational Programme of Education and Initial Training.
- ASKOI TOU AILOLOU - Support Services for the Implementation and Function of the Network of the Aegean Archipelago (1998 -), funded by the Operational Programme of Education and Initial Training.
- CERT / DS Project funded by EDET S.A. for the Operation of Information Services Support. Greek National Research Network (GRnet). Services CERT and Directory Services. (1/7/2000 -)
- DPSD Project funded by E.U. and the Greek Ministry of Education (EPEAEK) for the Establishment and Operation of the Department of Product and System Design at the University of the Aegean (1998 -)
- E51. High Speed Networks, Project funded by E.U. and the Greek Ministry of Education (EPEAEK- Operational Programme of Education and Initial Training) for the research of applications of High Speed Networks use in Education (1/9/1999 - 31/12/2000).
- EDET vNOC, Project Funded by EDET S.A. for the Design and development of a distributed virtual NOC for the administration of Greek National Research Network (GRnet). (Jan 2000 - April 2000)
- EDET, Design and development of a distributed virtual NOC for the administration of Greek National Research Network. (Jan 2000 -) Funded by GRnet
- EDET, Information Services support. (Jun 2000 -) Funded by GRnet.
- EDU-Net, Design and Development of the Panhellenic schools network. Funded by the Operational Programme of Education and Initial Training (1999-)
- EPET II/ EKBAN 44 Project funded by the General Secretary of Research and Technology. Development of a system for the Teleadministration of Macedonia, Thrace and Northern Aegean (Oct 95 -)
- Establishment and Operation of the Department of Product and System Design at the University of the Aegean (1998-)
- GU-NET, project funded by the Greek Ministry of Education for the design and development of the Greek Universities Network (Sept. 1996 -)
- ICSD Project funded by E.U. and the Greek Ministry of Education (EPEAEK) for the Establishment and Operation of the Department of Information and Communication Systems at the University of the Aegean (1997 - 2001).
- Mortgage Bank of Greece, Analysis of the conceptual model of the filing system (Jan 1996)
- MPS-EKPA, Project funded by E.U. and the Greek Ministry of Education (EPEAEK) for the Establishment and Operation of the MSc in Applied Economics and Economic Policy,

Department of Economics of the National and Kapodistrian University of Athens, In collaboration with the Department of Economics of the London School of Economics and Political Science (LSE). (1/10/1997 -)

- Networks of Experts / IKAROS. Project funded by the General Secretary of Research and Technology. Safety, reliability and quality in Information and Telecommunication Technologies. (1996 -)
- Odysseas – Aegean, Support and Function of the Network in the Area of the Aegean Archipelago for selected schools (1998 - 2000), funded by the Operational Programme of Education and Initial Training
- ODYSSEAS - AIGAIIO, Project funded by E.U. and the Greek Ministry of Education for the design, operation and management of a pilot network system for selected schools at the Aegean.
- ORA / RADIO (Project no 20011) Rural Area Delivery of Information and Organisation in the Aegean Islands. (Subcontract to INTRASOFT).
- 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- Oct. 90)
- Project funded by the Greek Ministry of the Aegean. Use of Telematics in the Development of the less favoured Aegean Islands (1996 -)
- Project funded by the National Organisation of Medicine on development and applications of Information Systems for Primary Health Care in Aegean Islands, using Soft Systems Methodology. (Sept. 89 - Sept. 91)
- ResExp, Investigation of Alternative Means of Funding of Higher Education via Exploitation of Property of Academic Institutions with Extensive Geographic Dispersion. (Sept 98-), funded by the Operational Programme of Education and Initial Training.
- ResInfo, Project funded by E.U. and the Greek Ministry of Education for the Research into the Relationships Between Undergraduate and Postgraduate Studies and the Labour Market in the Area of Information Systems. (1998 -)

Organising / Programm Committee:

- Aegean Seminar, Systems for Island Eco-Systems, Sustainable Development through Systems Thinking and Design, October 1991
- Aegean Seminar, Systems for Island Eco-Systems 1992
- Workshop on Task Based Explanation, June 1992
- 6th EWG on Decision Support Systems, May 1995
- IFIP SEC '96, 12th International Information Security Conference, May 1996 (Chair)
- 1st Panhellenic Conference with International Participation on Human-Computer Interaction (PC HCI 2001)
- Third Aegean international conference on Design and Analysis of Manufacturing Systems, May 19-22, 2001
- Fourth Aegean international conference on Design and Analysis of Manufacturing Systems
- The 30th International Conference on Computers & Industrial Engineering, June 29-July 2, 2002
- 12th Annual Conference of the European Distance Education Network, Rhodes, Greece, 2003
- Ethicomp 2004: Challenges for the Citizen of the Information Society. Proceedings of the Seventh International Conference. University of the Aegean, Syros, Greece, 14 to 16 April 2004. Syros, Greece, University of the Aegean, 2004.
- 1st to 6th Syros Conference, Syros, 2001- 2011.
- 5th Hellenic Conference on Artificial Intelligence (SETN08) 2008.

Publications

Journals

- [J01] **J. Darzentas, T. Spyrou**, Information Systems for Primary Health Care: The Case of the Aegean Islands, *European Journal of Information Systems*, vol 2, no 2, 127-177, 1993.
- [J02] **J. Darzentas, J.S. Darzentas, T. Spyrou**, Designing a Designers' Decision Aiding System (DDAS), *Journal of Decision Systems*, vol 4, no 1, 9-22, 1995.
- [J03] **S. Katsikas, T. Spyrou, D. Gritzalis, J. Darzentas**, Model for Network Behaviour under Viral Attack, *Computers Communications*, vol 19, 124-132, 1996.
- [J04] **J. Darzentas, T. Spyrou**, Ferry Traffic in the Aegean Islands: A Simulation Study, *The Journal of the Operational Research Society*, vol 47, no 2, 203-214, 1996.
- [J05] **J. Darzentas, J.S. Darzentas, T. Spyrou**, Choosing Appropriate Tools by means of Intelligent Decision Support, *Journal of Decision Systems*, vol 6, 45-62, 1997.
- [J06] **J. Hands, J. Darzentas, J.S. Darzentas, T. Spyrou, P. Koutsabasis, R. Smith**, GAIA: A Generic Architecture and Applicable Platform for Information Brokerage, *Electronic Commerce*, to appear, 2001.
- [J07] **P. Koutsabasis, J. Darzentas, T. Spyrou, J.S. Darzentas**, Proactive Assistance to Users of Electronic Brokerage Systems: The Design of the GAIA Interaction Agent, *Electronic Commerce*, to appear, 2001.
- [J08] **M. Konstantopoulos, T. Spyrou, P. Koutsabasis, J.S. Darzentas, C. Lambrinouidakis, J. Darzentas**, The role of directory services in online education delivery: the GESTALT example, *Int. J. Continuing Engineering Education and Lifelong Learning*, vol 11, no 1/2, 5-24, 2001.
- [J09] **M. Konstantopoulos, J.S. Darzentas, M. Konstantopoulos, T. Spyrou, J. Darzentas**, Towards Integration of Learning Objects Metadata and Learner Profiles Design: Lessons Learnt from GESTALT, *Interactive Learning Environments*, vol 9, no 0, 1-24, 2001.
- [J10] **M. Konstantopoulos, T. Spyrou, J. Darzentas**, The need for academic middleware to support advanced learning services, *Computer Networks*, vol 37, no 6, pp. 773-781, 2001.
- [J11] **Argyris Arnellos, Dimitrios Lekkas, Thomas Spyrou, John Darzentas**, "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, 2005.
- [J12] **Argyris Arnellos, Thomas Spyrou, John Darzentas**. 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, 2006. (Best paper in the Systemics and Information session of The 8th World MultiConference in Systemics, Cybernetics and Informatics, 2004)
- [J13] **Argyris Arnellos, Spyros Vosinakis, Thomas Spyrou, John Darzentas**. The Emergence of Autonomous Representations in Artificial Agents, *Journal of Computers, (JCP)* ISSN : 1796-203X Vol. 1 Iss. 6, pp. 29-36, September 2006.
- [J14] **Argyris Arnellos, Thomas Spyrou, John Darzentas**. Exploring Creativity in the Design Process: A Systems-semiotic Perspective, *Cybernetics and Human Knowing*, Imprint Academic, Vol 14, no 1. pp 37-64, 2007.
- [J15] **Argyris Arnellos, Thomas Spyrou, John Darzentas**. Cybernetic Embodiment and the Role of Autonomy in the Design Process, *Kybernetes* Vol 36, Issue 9/10, pp. 1207-1224, 2007.

- [J16] **Panayiotis Koutsabasis, Modestos Stavarakis, Nikos Viorres, Jenny S. Darzentas, Thomas Spyrou, John Darzentas**, A descriptive reference framework for the personalisation of e-business applications, *Electronic Commerce Research*, Vol 8, no 2, pp., 2008.
- [J17] **Arnellos, A., Spyrou, T., Darzentas, J.** 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. 2008.
- [J18] **Arnellos, A., Spyrou, T., Darzentas, J.** Meaning needs functional emergence: Shedding novel light into difficult problems, *Cybernetics and Human Knowing*, Vol. 15, No 3-4, pp. 50-56. 2008.
- [J19] **Arnellos, A., Spyrou, T., Darzentas, J.** Towards the Naturalization of Agency based on an Interactivist Account of Autonomy, *New Ideas in Psychology*. *New Ideas in Psychology*, (Elsevier) 28(3) 296-311, 2010.
- [J20] **Xenakis I., Arnellos, A. Spyrou, T. Darzentas, J.** Aesthetic judgment: An interactive semiotic framework, *Cybernetics and Human Knowing*, Imprint Academic. (accepted for publication).
- [J21] **Koutsabasis, P. Stavarakis, M. Spyrou, T. Darzentas J.** 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, Issue 2, Feb. 2011.
- **T. Spyrou, and J. Darzentas.** Intention Modelling: Approximating Computer User Intentions for Detection and Prediction of Intrusions, *Computers & Security, Volume 15, Issue 5, pp. 395, 1996 (selected abstract from IFIP SEC'96)*

Conferences

- [C01] **J. Darzentas, T. Spyrou**, The Application of Soft Systems Methodology in the Design and Development of Information Systems for Primary Health Care. The Case of Island Ecosystems, *3rd National Conference of the Greek Computer Society*, vol 2, 128-141, 1991.
- [C02] **J. Darzentas, N. Loukopoulos, J.S. Darzentas, T. Spyrou**, Task Knowledge Structures in Designing Intelligent Tutoring Systems Architecture, *3rd National Conference of the Greek Computer Society*, vol 1, 435-448, 1991.
- [C03] **J. Darzentas, T. Spyrou**, Systems Thinking Approaches for Knowledge Elicitation, *Aegean Seminar, Systems for Island Ecosystems, Sustainable Development through Systems Thinking and Design*, Invited, not printed, Samos, Oct, 1991.
- [C04] **J. Darzentas, J.S. Darzentas, T. Spyrou**, Explanation Provision for Decision Aiding in Intelligent Systems, *4th National Conference of the Greek Computer Society*, vol 2, 169-186, 1993.
- [C05] **J. Darzentas, T. Spyrou**, Ferry Traffic in the Aegean Islands: A Simulation Study, *2nd Balkan Conference on Operational Research*, Invited, not printed, Oct, 1993.
- [C06] **P. Spirakis, S. Katsikas, D. Gritzalis, F. Allegre, J. Darzentas, C. Gigante, D. Karagiannis, P. Kess, H. Putkonen, T. Spyrou**, SECURENET: A Network Oriented Intrusion Prevention and Detection Intelligent System, *10th International Conference on Information Security (IFIP SEC94)*, May, 1994.
- [C07] **J. Darzentas, J.S. Darzentas, T. Spyrou**, Fuzzy Reasoning and Systems Thinking in a Decision Aid for Designers, In: Proceedings of the Second European Congress on Intelligent Techniques and Soft Computing, *Second European Congress on Intelligent Techniques and Soft Computing, 'EUFIT 94' Aachen, Germany*, vol 3, 1609-1618, 1994.

- [C08] **J. Darzentas, J.S. Darzentas, T. Spyrou**, An Architecture for Designer Decision Aiding - DDAS, *Proceedings of the 5th meeting of the EURO Working Group on Decision Support Systems, Turku*, 115-125, June, 1994.
- [C09] **J.S. Darzentas, T. Spyrou, E. Benaki, J. Darzentas**, A Designer's Decision Aiding System: DDAS, *5th Greek National Conference on IS*, vol 2, 615-628, 1995.
- [C10] **T. Spyrou, E. Sutinen, A. Douma, H. Putkonen, J. Darzentas**, Applying SICS: A technique for software modules Communication, *5th Greek National Conference on IS*, vol 1, 165-176, 1995.
- [C11] **T. Spyrou, J. Darzentas, K. Sfetsou**, Application of Artificial Intelligence Techniques in Network Management Security: An Expert System Application for the Detection of Abnormal Behaviour, *5th Greek National Conference on IS*, vol 1, 187-202, 1995.
- [C12] **A. Aboulafia, E. Gould, T. Spyrou**, Activity Theory vs Cognitive Science in the Study of Human-Computer Interaction, *18th IRIS conference*, August, 1995.
- [C13] **J.S. Darzentas, T. Spyrou, E. Benaki, J. Darzentas**, A Designer's Decision Aiding System: DDAS, *6th European Working Group on DSS (EWG 6)*, 105-121, May, 1995.
- [C14] **J. Darzentas, T. Spyrou, Ch. Tsagaris**, Evaluating Option-related Text Descriptions for Decision Aiding, *6th European Working Group on DSS (EWG 6)*, 27-32, May, 1995.
- [C15] **T. Spyrou, R. Telesco**, Combining techniques from intelligent and decision support systems: An application in network security, *6th European Working Group on DSS (EWG 6)*, 123-137, May, 1995.
- [C16] **J. Darzentas, J.S. Darzentas, T. Spyrou, E. Benaki**, Matching Aid to Problems: an Intelligent Decision Support System for Designers, *14th European Conference on Operational Research*, 1995.
- [C17] **J. Darzentas, J.S. Darzentas, T. Spyrou**, Problem Identification and decision aiding, *14th Triennial Conference, IFORS 96, Vancouver, British Columbia, Canada*, invited, not printed, 1996.
- [C18] **T. Spyrou, J. Darzentas**, Intention Modelling: Approximating Computer User Intentions for Detection and Prediction of Intrusions, *Proc. of IFIP SEC 96, Chapman & Hall*, 319-337, 1996.
- [C19] **J. Darzentas, J.S. Darzentas, T. Spyrou**, Decision Aiding: Mapping tools to Problems, *7th EURO European Working Group on DSS (EWG 7), Ispra, Italy*, June, 1996.
- [C20] **J. Darzentas, J.S. Darzentas, T. Spyrou**, Intelligent Agents for supporting decisions in teleworking environment, *7th EURO European Working Group on DSS (EWG 7), Ispra, Italy*, June, 1996.
- [C21] **J. Darzentas, J.S. Darzentas, T. Spyrou**, Helping the User to Make Use of the Tools: Transferring Research Results from the Laboratory to the Market by Means of Intelligent Decision Support, *Human Comfort and Security of Information Systems - Advanced Interfaces for the Information Society*, K. Varghese, S. Pflieger, Springer Verlag, 1997.
- [C22] **P. Koutsabasis, J.S. Darzentas, T. Spyrou, J. Darzentas**, An Interaction Agent in a Brokerage Environment: Methodology, Design and Application, *Proceedings of the 1st ACM SIGART International Workshop on Interaction Agents, held in conjunction with ACM AVI'98, L'Aquila*, 58-60, May 24, 1998.
- [C22a] **P. Koutsabasis, J.S. Darzentas, T. Spyrou, J. Darzentas**, (1998), Intelligent agents and information brokerage. Proceedings of 12 th National Conference of the Greek Operational Research Society, Samos, Greece, 4-6 September 1998
- [C23] **P. Koutsabasis, J.S. Darzentas, T. Spyrou, J. Darzentas**, Facilitating User-System Integration: the GAIA Interaction Agent, *Proceedings of the 32nd Hawaii*

International Conference on System Sciences (HICSS-32), Maui, Hawaii, IEEE, January 5-8, 1999.

- [C24] **M. Konstantopoulos, T. Spyrou, J. Darzentas**, The Deployment of an Academic Middleware to Support Advanced Learning Services, *TERENA Networking Conference 2001, Antalya, Turkey*, 2001.
- [C25] **V. Theodoropoulos, J.S. Darzentas, T. Spyrou, J. Darzentas**, Designing a Postgraduate Curriculum in Information Systems: A Greek Case, *Ninth Annual European Conference on Information Systems (ECIS 2001)*, 1070-1080, June 27-29, 2001.
- [C26] **P. Koutsabasis, J.S. Darzentas, J. Abascal, T. Spyrou, J. Darzentas**, Designing Internet-based Systems and Services for All: Problems and Solutions, *International Conference on Universal Access in Human-Computer Interaction - UAHCI 2001 jointly with HCI International 2001, New Orleans, LA, USA*, vol 3, 31-35, August 5-10, 2001.
- [C27] **J.S. Darzentas, T. Spyrou, J. Darzentas**, Bringing Human Computer Interaction into a Department of Product and Systems Design, *Eight IFIP TC.13 Conference on Human-Computer Interaction, INTERACT2001, July 9-13, Tokyo, Japan*, 2001.
- [C28] **P. Koutsabasis, J.S. Darzentas, T. Spyrou, C.A. Velasco, H. Gappa, G. Nordbrock, J. Darzentas**, Enhancing the Applicability and Impact of Recommendations and Tools for Accessibility of Internet Services, *INTERACT 2001 (8th IFIP TC 13 Conference on HCI) in terms of Workshop on Issues on the application of guidelines to the design of HCI systems for older people and people with disabilities*, 2001.
- [C29] **P. Koutsabasis, J.S. Darzentas, T. Spyrou, C.A. Velasco, Y. Mohamad, J. Darzentas**, Towards an Environment that Supports Internet Designers to Design for All, *1st Panhellenic Conference with International Participation on Human-Computer Interaction (PC HCI 2001)*, December 7-9th, 2001, Patras, Greece, 2001
- [C29a] **Carlos A Velasco, Yehya Mohamad, H. GAPPA, G. NORDBROCK, M. PIEPER, John Darzentas, Jenny S. Darzentas, Panayiotis Koutsabasis, Thomas Spyrou**, IRIS: Towards a design environment that supports Internet for All *International Conference on Assistive Technology 2002 (ICAT 2002)*, pp. 1-7.
- [C29b] **Thomas Spyrou, Jenny S. Darzentas, Panayiotis Koutsabasis, C. PAPAPOPOULOS, J. HANDS, John Darzentas**, 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
- [C30] **Viorres N, Koutsabasis P, Arnellos A, Darzentas J S, Velasco C A, Mohamad Y, Spyrou T, Darzentas J**, An approach for personalisation and content adaptation for accessible Internet Services based on user and device profiles, in Julie Jacko, Constantine Stephanidis (Eds), *Universal Access in HCI, Inclusive Design in the Information Society (Volume 4, Proceedings of the 2nd International Conference on Universal Access in Human - Computer Interaction, 22—27 June, Crete, Greece)* S. 637—641. New Jersey: Lawrence Erlbaum Associates, 2003.
- [C31] **Thomas Spyrou, Evangelos Vlachogiannis, Argyris Arnellos, John Darzentas**. Towards a framework for creating design support environments for adaptive systems. in Julie Jacko, Constantine Stephanidis (Eds), *Human Computer Interaction: Theory and Practice*, Lawrence Erlbaum Associates, HCII2003, Crete, Greece, 2003.
- [C32] **Modestos Stavrakis, Thomas Spyrou & John Darzentas**, Synthesising Creativity: Systems to support human processes for aesthetic product design, in Julie Jacko, Constantine Stephanidis (Eds), *Human Computer Interaction: Theory and Practice*, Lawrence Erlbaum Associates, ISBN: 0805849300, 2003.

- [C33] **John Darzentas, Argyris Arnellos, Jenny S. Darzentas, Panayiotis Koutsabasis, Thomas Spyrou, Nikos Viorres, Evangelos Vlachogiannis, Carlos A Velasco, Yehya Mohamad, Julio Abascal, Jorge Tomas Guerra, Myriam Arrue Recondo, Nikitas Tsopelas, Nikos Floratos.** 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, 2003.
- [C34] **Argyris Arnellos, Thomas Spyrou, John Darzentas.** 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), 2003.
- [C35] **Spyridon Nomikos, Jenny S. Darzentas, Anastasios E. Politis, Thomas Spyrou, John Darzentas.** To print or not to print (digitally)? Innovative digital printing characteristics and their degree of penetration in print media markets. In Spinellis, Diomidis (Ed.) Cross-Media Service Delivery, Kluwer Academic Publishers, 2003. ISBN 1-4020-7480-8. (Series: The Springer International Series in Engineering and Computer Science, Vol. 740 ISBN: 978-1-4020-7480-6)
- [C36] **Argyris Arnellos, Thomas Spyrou, John Darzentas,** Dynamic Interactions in Artificial Environments: Causal and Non-Causal Aspects for the Emergence of Meaning. - The 8th World MultiConference in Systemics, Cybernetics and Informatics, Orlando, FL, USA, 2004.
- [C37] **Argyris Arnellos, Thomas Spyrou, John Darzentas,** 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, 2004.
- [C38] **Argyris Arnellos, Thomas Spyrou, John Darzentas.** 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, ETHICOMP2004, Syros, Greece, 2004.
- [C39] **Argyris Arnellos, Thomas Spyrou, John Darzentas** (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.
- [C40] **Argyris Arnellos, Thomas Spyrou, John Darzentas** (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.
- [C41] **Dimitrios Lekkas, Argyris Arnellos, Thomas Spyrou, John Darzentas,** "Pervasive Digital Signatures: Syntactic robustness and simplicity of signed documents", In Proceedings of SecPerU'05, Security, Privacy and Trust in Pervasive and Ubiquitous Computing, Santorini, Greece, IEEE, (July 2005) pp.21-28.
- [C42] **Evangelos Vlachogiannis, Jenny Darzentas, Argyris Arnellos, Thomas Spyrou, John Darzentas,** The accessibility of web applications: the case of portals and portlets, HCI International 2005, HCII2005, Las Vegas, 2005.
- [C43] **Spyridon Nomikos, Anastasios Politis, Jenny Darzentas, Thomas Spyrou, John Darzentas.** Exploring cross-media concepts for future packaging – Challenges for the printing industry. In Proceedings 32nd International IARIGAI Conf.4-7, pp.319-331, Sept 2005.
- [C44] **Argyris Arnellos, Spyros Vosinakis, Thomas Spyrou, John Darzentas,** Towards Representational Autonomy of Agents in Artificial Environments, SETN06, Lectures Notes in Artificial Intelligence, (LNAI), Springer-Verlag, 2006.

- [C45] **Argyris Arnellos, Martien Brands, Thomas Spyrou, John Darzentas, A** Biosemiotic Analysis of Serotonin's Complex Functionality. In the 6th International Conference in Biosemiotics, Salzburg, Austria, 2006.
- [C46] **Spyridon Nomikos, Anastasios Politis, Jenny S. Darzentas, Thomas Spyrou, John Darzentas,** Smart Packaging Applications and their Effect on Packaging Printing? Examining new Approaches in the Printing Industry, International Conference, RUSSIA/ Printing Technologies / SPb 06 / 26-30/6/2006 – ST. Petersburg - STATE UNIVERSITY of TECHNOLOGY and DESIGN.
- [C47] **Spyridon Nomikos, Panayiotis Koutsabasis, Jenny S. Darzentas, Thomas Spyrou, John Darzentas,** Towards a Conceptual Framework for the Design of Intelligent Packaging Services in Print and Cross-media: the Role of Decision Support Systems. Intern. Conf. RUSSIA -Printing Technologies -SPb 06 / 26-30/6/2006 – ST. Petersburg, STATE UNIVERSITY of TECHNOLOGY and DESIGN
- [C48] **Modestos Stavarakis, N. Chnarakis, A. Gavogiannis, Thomas Spyrou, John Darzentas,** A multi-methodological view for the interactive collaborative design of virtual environments, 4th Intuition International Conference and Workshop 2007.
- [C49] **Panayiotis Koutsabasis, Thomas Spyrou, Jenny S. Darzentas, John Darzentas,** On the performance of novice evaluators in usability evaluations, 11th Panhellenic Conference on Informatics (PCI 2007) at Patras, Greece, 18-20 of May 2007.
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