THEODORE ZAMENOPOULOS Dip Arch Eng, PhD Researcher

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Education

March 2000-present. PhD student in the Bartlett School of Graduate Studies, University College London, UK

May 1999. Professional Degree in Architectural Engineering from the Aristotle University of Thessaloniki, Greece
Grade 8.44/10.0

Awards

1992 Thessaloniki. Poster competition award for the First Exhibition of Architectural Creation. Relevant poster appeared at the Exhibition.

1992 Thessaloniki. Second Prize in the competition for the Restoration and Recreation study of the historical settlement of Anavatos on the island Chios. Participated in a partnership association with the architectural office of Prof. M. Nomikos and Partners.

Research

2000-present London. My research in Bartlett and CASA focuses on the understanding, modelling and implementation of design systems. In particular, I am working on the development of interactive and adaptive models for spatial plan generation based on theories, methodologies and techniques coming from mathematics, control theory, distributed artificial intelligence and neural networks. The application areas for these models are CAD systems, GIS, and Design and Planning Support Systems. My research interests include: design science and computing, artificial intelligence in design and planning, computational models that incorporate learning and creative search, design and planning support systems, knowledge acquisition and representation.

1998-1999 Thessaloniki. For my dissertation submitted as part of my Dip Arch Eng requirements, I have conducted a research on the use of neural network and fuzzy logic techniques to create plans for the configuration of the built environment. The research culminated in the creation of a hybrid piece of software, called Fuzzy Adaptive Intervention Plan, that generates proposals in real-time by reproducing a weighed expression of users' demands. A case study was examined using observations and data from the regeneration area around Piraeus highway in Greece.

1994-1995 Thessaloniki. Voluntary participation in the project of intervention designed and realized at the campus of the 38th Elementary School of Thessaloniki. The project was based on the data initiated from a pilot research assignment having as subject the environmental understanding as perceived by pupils of this particular school. It was conducted under the guidance of Professor of the Department of Architecture K. Tsoukala and Professor of the Pedagogical Department of the University of Thessaloniki D. Germanos.

1993 Thessaloniki. Voluntary and initiative participation in the organization of a class for the introduction of spatial and architectural concepts to young children. The lesson was carried out with the participation of children in the first class of the 41st Elementary School of Thessaloniki and was culminated to the creation of conceptual maps of the city and the construction of a model.

Publications

Fully Reviewed

Zamenopoulos, T. and Alexiou, K. (2003) 'Computer-aided creativity and learning in distributed cooperative human-machine networks'. In *CAAD Futures 2003*, M-L. Chiu, T. Jin-Yeu, T. Kvan, M. Morozumi and T. Jeng (eds), Kluwer Academic Publishers: Dordrecht, The Netherlands. [Forthcoming]

Zamenopoulos, T. and Alexiou, K. (2002) 'Learning to be creative and the creative memory – a discussion motivated by a control-based coordination model'. In *Learning and Creativity Workshop notes, Seventh International Conference on Artificial Intelligence in Design (AID'02),* Cambridge: UK. [Available from URL: http://www.cad.strath.ac.uk/AID02_workshop/Workshop_webpage.html]

Alexiou, K. and Zamenopoulos, T. (2002) 'A Control Based Approach to Artificial Design and Plan Generation'. In *Proceedings of the Conference Common Ground, Design Research Society International Conference*, D. Durling and J. Shackleton (eds), Staffordshide University Press: UK, pp 13.

Reviewed

Zamenopoulos, T. and Alexiou, K. 2003 'Structuring the plan design process as a coordination problem: the paradigm of distributed learning control coordination'. In *Advanced Spatial Analysis: the CASA Book of GIS*, P.Longley and M. Batty (eds).

Zamenopoulos, T. and Alexiou, K. (2002) 'Artificial Design and Plan Generation by Learning. A model of control-based coordination'. *In AID '02 Accepted Posters*. Available in CD-ROM.

Alexiou, K. and Zamenopoulos, T. (2002) 'Artificial Design and Planning Support: Interactive Plan Generation and Coordination in Distributed Decision-Making'. In *Design and Decision Support Systems in Urban Planning*, *Proceedings of the 6th International Conference*, Einhoven University of Technology: The Netherlands, pp 1-11.

Alexiou, K. and Zamenopoulos, T. (2001) 'A Connectionist Paradigm in the Co-ordination and Control of Multiple Self-Interested Agents' in the *Proceedings of the 2nd National Conference Input 2001: Democracy and Technologies*, Tremiti Islands, Italy, 27-29 June 2001.

Reports

Zamenopoulos, T. and Alexiou, K. 2003 'Designers' secret cameras'. Report on the Symposium on Computational Models in Design and Planning held in CASA, 11 September 2002. [Available from URL: http://www.casa.ucl.ac.uk/katerina/symposium/report.pdf]

Alexiou, K. and Zamenopoulos, T. (2002) 'Designing Plans: A Control Based Coordination Model'. CASA Working Paper 48, University College London, Centre for Advanced Spatial Analysis. [Available from URL: http://www.casa.ucl.ac.uk/working_papers/paper48.pdf]

Alexiou, K. and Zamenopoulos, T. (2000) 'The morphogenesis of limits in the city', diploma dissertation, in *Architects* the official magazine of the Architects Association in Greece. (in Greek) [Report Available in English from URL: http://www.casa.ucl.ac.uk/FAIP/FAIP.pdf]

Other academic related activities

2002 London. Co-organisation of the symposium on 'Computational Models in Design and Planning', which took place in University College London on the 7th September 2002. The symposium was supported by the UCL Graduate School, the Bartlett School of Graduate Studies, and the Centre for Advanced Spatial Analysis (CASA). Symposium web-site: http://www.casa.ucl.ac.uk/katerina/symposium

Scholarships

September 2002. EPSRC Doctoral Training Account scholarship for the year 2002-2003.

April 2001. Travel fund for participating in the 2nd National Conference 'Input 2001: Democracy and Technologies', held in Tremiti Islands, Italy, 27-29 June 2001.

September 1994- March 1995. Scholarship from the Institute of National Scholarships for participating in the Erasmus program at the University of Paris-La Villette, in Paris.

1993-1994 and 1991-1992. Beneficiary of scholarship (support grant) from the Institute of National Scholarships due to high grades achievement.

Professional Experience

1999- 2000, Athens. Full-time associate in the architectural studio of D. Zamenopoulos. Architectural design.

1991-1999 Athens. Part-time associate in the architectural studio of D. Zamenopoulos. Architectural design.

1996 Thessaloniki. Full-time associate in the architectural studio of Dr. E. Chrisafides. Architectural design.

1991-1994 Thessaloniki. Partner and part-time associate in the architectural studio of Prof. M. Nomikos and Partners. Architectural survey and architectural design.

1993 Thessaloniki. Participation in the establishment of the retrospective exhibition of Mario Botta (1980-1990).

1992 Thessaloniki. Participation in the establishment of the First Exhibition of Architectural Creation.

Professional Qualifications

June 1999. Member of the Technical Chamber of Greece.

Languages

Greek (Mother tongue)

English (Fluent)

French (Fluent)

Technical Skills

Programs: MS Office (Word, Excel, Power Point, Access), PhotoShop, Dreamweaver, Director, Flash, CorelDraw, QuarkXpress, ArcView, MapInfo, AutoCAD 2000.

Programming language: Java, Matlab.