

## **DR. PEGGY AGOURIS**

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### **A. SHORT BIOGRAPHICAL SKETCH**

Dr. Peggy Agouris is Associate Professor in Spatial Information Science and Engineering at the University of Maine. She also holds a research appointment with the National Center for Geographic Information and Analysis. Her education and post-doctoral training are as follows:

National Technical Univ. of Athens, Greece	Spatial Information Engineering	Dipl.Eng.	1986
The Ohio State University	Digital Image Analysis	M.Sc.	1988
The Ohio State University	Digital Image Analysis	Ph.D.	1992
Swiss Federal Inst. of Technology, Zurich	Digital Image Analysis & GIS	Post-Doc.	1993-1995

Dr. Agouris' research interests are focused in the automation of processes for spatial information extraction from digital imagery, and the integration of digital photogrammetry and image analysis within spatial and spatio-temporal information systems. She is the recipient of a CAREER award (1997) from the National Science Foundation (Information and Data Management Program). Dr. Agouris' work is currently supported by grants by NSF on distributed geospatial databases (ITR program), and the National Geospatial-Information Agency (NGA) on image-based object extraction and change detection. Her funded research activities to-date include further grants and contracts from the NSF, NGA, NASA, the Office of Research and Development (ORD), the National Reconnaissance Office (NRO), the US Army, BAE Systems, USGS, and others. The total budget of these projects is over \$5M. Dr. Agouris has served as reviewer and panelist for NSF and other national and international science organizations, as Committee of Visitors member for NSF's Career program, and as chair or organizing/program committee member in various national and international conferences. She has consulted for the Office of Research and Development (CIA), Intergraph, BAE Systems, DeLorme Inc., and various other companies.

Dr. Agouris has authored or co-authored more than 50 fully refereed articles in journals, books, and conference proceedings in the digital photogrammetric and computer science literature. She has also co-edited 3 books on digital image analysis for geospatial applications as well as two journal special issues. For her achievements Dr. Agouris has received the 1996 VI Talbert Abrams Award, the 1993 Duane C. Brown Jr. Award, and the 1990 Wild-Leitz Photogrammetric Fellowship Award. She has also received a College of Engineering Outstanding Faculty in Research Award, and a Dean's Award of Excellence, both by the University of Maine.

### **B. SELECT RELEVANT PUBLICATIONS**

- P. Agouris** & A. Croitoru (Eds.), 2005. *Next Generation Geospatial Information*, Balkema (Taylor & Francis).
- S. Gyftakis, **P. Agouris** & A. Stefanidis, 2004. Tracking Deformable Objects in Geospatial Applications, *IEEE-ICIP'04 (International Conference on Image Processing)*, Singapore (in press).
- A. Stefanidis, K. Eickhorst, **P. Agouris** & P. Partsinevelos, 2003. Modeling and Comparing Change Using Spatiotemporal Helices, *ACM-GIS'03* (E. Hoel & P. Rigaux eds.), ACM Press, New Orleans, pp. 86-93.
- G. Mountrakis & **P. Agouris**, 2003. Learning Similarity with Fuzzy Functions of Adaptable Complexity, *Lecture Notes in Computer Science (Advances in Spatial & Temporal Databases - SSTD)*, Vol. 2750, pp. 412-429.
- P. Agouris** & A. Stefanidis, 2003. Efficient Summarization of Spatiotemporal Events, *Communications of the ACM*, 46(1), pp. 65-66.
- A. Stefanidis, **P. Agouris**, M. Bertolotto, J. Carswell & Ch. Georgiadis, 2002. Scale and Orientation-Invariant Scene Similarity Metrics for Image Queries, *International Journal of Geographical Information Science*, 16(8), pp. 749-772.
- F. Fonseca, M. Egenhofer, **P. Agouris** & G. Gamara, 2002. Using Ontologies for Integrated Geographic Information Systems, *Transactions in GIS*, 6(3), pp. 231-257.
- P. Agouris**, P. Doucette & A. Stefanidis, 2001. Spatiospectral Cluster Analysis of Elongated Regions in Aerial Imagery, *IEEE-ICIP'01 (International Conf. on Image Processing)*, Thessaloniki, Vol. 2, pp.789-792.
- P. Agouris** & A. Stefanidis (Eds.), 1999. *Integrated Spatial Databases: Digital Images and GIS*, Lecture Notes in Computer Science, Vol. 1737, 317 pages.