

## **DR. ANTHONY STEFANIDIS**

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### **A. Short Biographical Sketch**

Dr. Anthony Stefanidis is Assistant Professor in Spatial Information Science & Engineering at the University of Maine. His education and post-doctoral training are:

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

The expertise of Dr. Stefanidis is in the analysis of 2-D and 3-D digital imagery and video, scale-space techniques, and image-based geospatial information systems. His current research interests include the areas of image analysis and video processing for spatio-temporal applications, and are funded by the NSF ITR and SEII Programs, and the National Geospatial-Information Agency (NGA). His past research activities include projects funded by NSF, NASA, the USGS, and the European Union. In addition to his research activities he is teaching courses in video analysis, spatial information systems, and spatial statistics. Dr. Stefanidis has also consulted for DeLorme Inc., Intergraph, and BAE Systems, and has been visiting faculty at the Dept. of Ocean Studies, Maine Maritime Academy, and the Dept. of Environmental Studies, University of the Aegean, Greece.

Dr. Stefanidis has co-edited two books, one on image analysis for GIS applications, and another on distributed sensors for geospatial modeling. He has also authored or co-authored numerous articles in journals and fully refereed conference proceedings. His work has been featured in various international professional publications. He has also served as reviewer and panelist for NSF, as chair or program committee member in various conferences and workshops, and on the editorial board of the journal 'Photogrammetric Engineering & Remote Sensing'. For his scholastic and research achievements, he has received the 1988 R. Altenhofen, the 1988 D. Brown, and the 1992 Leica scientific awards, and is a member of the Phi Kappa Phi Honor Society. Dr. Stefanidis has also received a 1998 *Young Author Award* by the International Society for Photogrammetry & Remote Sensing, and the 2003 *Early Career Research Award* by the University of Maine.

### **B. Some Relevant Recent Publications**

- A. Stefanidis & S. Nittel, (Eds.) 2004. *GeoSensor Networks: Sensor-Based Distributed Geocomputing*, CRC Press.
- V. Venkataraman, S. Srinivasan & A. Stefanidis, 2004. Object Color Propagation Across Disjoint Camera Feeds, *IEEE-ICIP'04 (International Conf. on Image Processing)*, Singapore (in press).
- G. Mountrakis, A. Stefanidis, I. Schlaisich & P. Agouris, 2004. Supporting Quality-Based Image Retrieval through User Preference Learning, *Photogrammetric Engineering & Remote Sensing*, Vol. 70, No. 8, pp. 973-981
- A. Stefanidis, K. Eickhorst, P. Agouris & P. Partsinevelos, 2003. Modeling and Comparing Change Using Spatiotemporal Helixes, *ACM GIS'03*, New Orleans, pp. 86-93.
- 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.
- P. Agouris and A. Stefanidis (Eds.), 1999. *Integrated Spatial Databases: Digital Images and GIS*, Lecture Notes in Computer Science, Vol. 1737, Springer Verlag.