

PANAYOTIS PARTSINEVELOU

Technical University of Crete
Dept. of Mineral Resources Engineering
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PROFESSIONAL STANDING

- 2008-current Technical University of Crete, Dept of Mineral Resources Engineering, Greece
Assistant Professor, Computational Analysis in Spatial Information Science
- 2006-2008 Ministry of Rural Development, Athens, Greece
Engineer, Geographic information systems specialist
- 2006-2008 Technological Educational Institute of Athens, Dept. of Topography, Greece
External Academic Faculty in Special Issues on Remote Sensing
- 2005-2006 Technical University of Crete, Dept of Mineral Resources Engineering, Greece
External Academic Faculty-Lecturer in Remote Sensing and Geodesy
- 1997-2002 University of Maine Maine, USA
Research & Teaching Assistant
Digital Image Processing, Photogrammetry, Adjustment Computations

ACADEMIA

- 2003-2004 Research Academic Computer Technology Institute Athens, Greece
Postdoctoral researcher in Knowledge Management and GIS
- 1997-2002 University of Maine MAINE, USA
Ph.D., Dept of Spatial Information Science & Engineering
Focus on GIS & Image Processing, Minor in Civil Engineering
GPA: 3.84
- 1991-1996 National Technical University of Athens (NTUA) Athens, Greece
Dipl. Eng. in Surveying Engineering

Research Interests:

Spatiotemporal data modeling for GIS
GIS querying by example
Automation in multi-temporal remote sensing monitoring applications
Summarization of motion imagery and moving object datasets
Topology in time dependent scene similarity
Behavior analysis and similarity matching in trajectory datasets
Computational and Neural network classification of multi-dimensional data
Self-organizing map generalization enhancement.

Selected Research Projects:

- Principal Investigator, Spatiotemporal Queries by Sketch in Moving Object Geodatabases, Technical University of Crete, 2010-current, Support on Basic research.
- FP7-REGPOT-2008-1 Project No: 229885 "SOFIA: Enhancement of Crete's potential for a dedicated calibration facility for satellite radar altimeters and for tectonic deformation monitoring using continuously operating geodetic arrays", 2008-current, Technical University of Crete, Laboratory of Geodesy and Geomatics Engineering.
- Anthropogenic Intervention assessment in Greek coastal regions, co-funded by the European Social Fund and National Resources - (EPEAEK II) ARXIMHDHS.
- Digital Government on Knowledge Management Over Time-Varying Geospatial Datasets sponsored by National Science Foundation (NSF).
- Geospatial Database-Driven Extraction of Information from Digital Aerial Imagery, sponsored by NSF.

SELECTED AWARDS

2007	Future Perspectives of GeoInformation FOR ICM conference, Second position on poster presentation,	Genoa, Italy
2003-2004	Greek National Scholarship Foundation Post-Doctorate Research Scholarship	Athens, Greece
2000	International Society of Photogrammetry & Remote Sensing, ISPRS Robert E. Altenhofen Memorial Scholarship Award	International
1998	University of Maine Graduate Trustee Tuition Scholarship	MAINE, USA
1997	A.Onasis Foundation Doctorate scholarship	Athens, Greece

SELECTED PUBLICATIONS

Mitraka Z., N. Chrysoulakis, Y. Kamarianakis, P. Partsinevelos and A. Tsouchlaraki, (2012), **Improving the estimation of urban surface emissivity based on sub-pixel classification of high resolution satellite imagery**, Remote Sensing of the Environment Remote Sensing of Environment (2012), pp. 125-134, doi: 10.1016/j.rse.2011.06.025.

Partsinevelos P., (2011), **Registering randomly oriented scenes through moving object attributes**, International Journal of Geographical Information Science, 25:11, 1793-1807, doi: 10.1080/13658816.2011.552064.

Mertikas S. P., A. Daskalakis, I. N. Tziavos, G. S. Vergos, X. Frantzis, A. Tripolitsiotis, P. Partsinevelos, D. Andrikopoulos & V. Zervakis (2011), **Ascending and Descending Passes for the Determination of the Altimeter Bias of Jason Satellites using the Gavdos Facility**, Marine Geodesy, 34:3-4, 261-276, doi: 10.1080/01490419.2011.584837.

Miliaresis G., P. Partsinevelos, (2010), **Terrain Segmentation of Egypt from Multi-temporal Night LST Imagery and Elevation Data**, in Remote Sensing Journal, 2, 2083-2096 p.,doi:10.3390/rs2092083.

Partsinevelos, P. (2008), **Multi-Modal Comparison of Object Trajectories**", in Journal of Spatial Sciences, 2008.

Partsinevelos P. & N. Tryfona, "**Handling High-level Queries in Location-based Services for User Groups**", in Geoinformatica Journal, vol. 10, no 2, pp. 213-234(22), Springer, 2006.

Partsinevelos P., P. Agouris & A. Stefanidis, "**Reconstructing Spatiotemporal Trajectories from Sparse Data**", in Journal of Photogrammetry and Remote Sensing (PE&RS), vol. 60, no 1, pp. 3-16 (14), Elsevier Science, 2005.

Partsinevelos P., P. Agouris & A. Stefanidis "**Modeling Movement Relations in Dynamic Urban Scenes**", International Archives of Photogrammetry & Remote Sensing, Vol. XXXIII, Amsterdam, 2000.

Mertikas, S. P., A. Daskalakis, W. Hausleitner, I.N. Tziavos, G.S. Vergos, V. Zervakis, P. Partsinevelos, X. Frantzis, D. Andrikopoulos, A. Tripolitsiotis (2010). **Calibration of satellite radar altimeters at Gavdos Cal/Val facility using three different methodologies**, Proceedings of European Space Agency Living Planet 2010, Bergen, Norway, 28 Jun–2 Jul, 2010, doi: 10.1117/12.865991.

Partsinevelos P. & G. Miliaresis (2009), "**Spatiotemporal filtering of multi-temporal images: application on MODIS sea surface temperature (SST) imagery**", 5th International Workshop on the Analysis of Multi-temporal Remote Sensing Images, Groton, CT, 2009.

Mertikas, S. P. , R. Ioannides, X. Frantzis, P. Partsinevelos, A. Tripolitsiotis (2009), "**Recent Results for the Estimation of the Altimeter Bias For the Jason satellites Using Gavdos**", Ocean Surface Topography Science Team Meeting, Seattle, Washington, USA, 22-24 June, 2009, Poster and Oral Presentation.

Klousopoulos J., P. Partsinevelos, M. Pigaki, N. Tsiougou & I. Veizi, (2008), "**Anthropogenetic Intensity Indicator; Measuring Human Impact Along Coastal Areas**", in Inter. Conf. Studying, Modeling and Sense Making of Planet Earth, Mytilene, Lesvos, Greece, 1 – 6 June, 2008.

Veizi I., N. Tsiougou, C. Kouki, D. Matsa, G. Tsiougos, N. Lakafosis, M. Zarras, G. Miliaresis, P. Partsinevelos, M. Pigaki, (2007), "**Anthropogenetic intensity, a new indicator to measure coastal man-made volume, case study: Navpaktos -Aetolia-Acarmania, Greece**", Future Perspectives of Geoinformation for Integrated Coastal Management, GISIG/ICCOPS/ECOImagine, Genoa, 21-23 November, 2007.

Partsinevelos P., A. Stefanidis & P. Agouris "**Automated Spatiotemporal Scaling for Video Generalization**", IEEE-ICIP 2001, Thessaloniki, Greece, 2001.

Stefanidis A., P. Partsinevelos & P. Agouris "**Using Lifelines for Spatiotemporal Summaries**", DG.O 2001 Proceedings, National Conference on Digital Government Research, Los Angeles, CA, 2001.

Stefanidis A., P. Partsinevelos, K. Eickhorst & P. Agouris "**Spatiotemporal Lifelines in Support of Video Queries**", Proceedings DEXA Workshop 2001, Query Processing and Multimedia Issues in Distributed Systems (QPMIDS), Munich, 2001.

DISSERTATIONS:

Dipl. Eng. Thesis: P. Partsinevelos "**Adjustment of mathematical surface models in real surfaces.- Application in parabolic antennas**", National technical University of Athens, Athens, Greece, 1996.

Doctorate Dissertation: P. Partsinevelos "**Detection and generalization of spatio-temporal trajectories for motion imagery**", University of Maine, Orono, USA, 2002.