



Dimitris Maroulis

Title: Professor on Analog and Digital Systems for Data Acquisition and Processing

Sector: Communications and Signal Processing

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Academic Qualifications:

- Ph.D. in Computer Science (1990), Dept. of Informatics and Telecommunications, University of Athens
- M.Sc. in Cybernetics (1978), Dept. of Physics, University of Athens
- M.Sc. in Electronics and Computers (1977), Dept. of Physics, University of Athens
- B.Sc. in Physics (1973), Dept. of Physics, University of Athens

Appointments:

- 2011 - today : Professor, Dept. of Informatics & Telecom., University of Athens
- 2006 - 2010 : Associate Professor, Dept. of Informatics & Telecom., University of Athens
- 1996 - 2005 : Assistant Professor, Dept. of Informatics & Telecom., University of Athens
- 1990 - 1995 : Lecturer, Dept. of Physics, University of Athens
- 1986 - 1989: Research Fellow, Space Research Department (DESPA), Paris Observatory, Meudon, France.
- 1977 - 1979: Dept. of Statistics., Hellenic Telecommunications Organization (OTE).

Teaching Activities: (current)

Undergraduate courses

- Digital Communications

Postgraduate courses

- Real Time Systems
- Intelligent Medical Systems
- Principles and Techniques of Computer Programming

Supervisor of 6 Ph.D. dissertations (completed)

Supervisor of 3 Ph.D. dissertations (ongoing)

Research Interests/Activities: (last 10 years)

- Real Time Data Acquisition and Control Systems
- Image Analysis and Processing
- Pattern Recognition

- Bioinformatics
- Biomedical Systems

Scientific Publications/Citations:

- 39 publications in refereed journals (9 IEEE transactions)
- 82 refereed conference publications
- 4 Invited papers in international journals
- 2 book chapters
- More than 650 citations. (H-index 11)

Top five publications

- "Computer Aided Tumor Detection in Endoscopic Video using Color Wavelet Features", S. Karkanis, D. Iakovidis, D. Maroulis, D. Karras, M. Tzivras, IEEE Transactions on Information Technology in Biomedicine, Vol. 7, pp.141-152, 2003.
- "A High-Performance Imaging and Control System for a Micromirror-Based Laser-Scanning Endoscope Device", P. Papageorgas, D. Maroulis, G. Anagnostopoulos, H. Albrecht, B. Wagner, D. Iakovidis, N. Theofanous, IEEE Transactions on Instrumentation and Measurement, Vol. 55, No 5, pp. 1725-1733, October 2006.
- "Variable Background Active Contour Model for Computer-Aided Delineation of Nodules in Thyroid Ultrasound Images," D. Maroulis, M. Savelonas, D. Iakovidis, S. Karkanis, N. Dimitropoulos, IEEE Transactions on Information Technology in Biomedicine, Vol. 11, No. 5, pp. 537-543, 2007.
- "An Original Genetic Approach to the Fully-Automatic Gridding of Microarray Images", E. Zacharia, D. Maroulis, IEEE Transactions on Medical Imaging, vol.27, no.6, pp. 805-813, June 2008.
- "3D Spot-Modeling for Automatic Segmentation of Microarray Images," E. Zacharia, and D. Maroulis, IEEE Transactions on NanoBioscience, vol. 9, no. 3, pp. 181-192, 2010.

Other Activities:

- 12 R&D projects
- Reviewer in more than 12 international journals
- Chairman in national and international conferences