



Sergios Theodoridis

Title: Professor of Signal Processing and Communications

Sector: Telecommunications and Signal Processing

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Academic Qualifications:

- Ph.D. Dept. of Electronics and Electrical Eng., University of Birmingham, 1978.
- M.Sc. in Information Systems Engineering, Dept. of Electronics and Electrical Eng., University of Birmingham, U.K., 1975.
- B.Sc. in Physics, Dept. of Physics, University of Athens, 1973.

Appointments:

- 1995 - today: Professor, Dept. of Informatics & Telecom., University of Athens.
- 1984 - 1995: Dept. of Informatics and Computer Eng, University of Patras, Greece.,
- 1981-1983: Greek Army
- 1978-1981: Res. Fellow, Dept. of Electronics and Electrical Eng., University of Birmingham, U.K.

Teaching Activities: (current)

Undergraduate courses

- Digital Signal Processing
- Pattern Recognition

Postgraduate courses

- Statistical and Adaptive Signal Processing

Research Interests/Activities: (last 10 years)

- Adaptive Signal Processing
- Machine Learning and Pattern Recognition
- Music and Audio processing and Mining
- Biomedical Signal Processing

Scientific Publications/Citations:

- 87 publications in refereed journals (42 IEEE transactions)
- 95 refereed conference publications
- Co-author of two books in English, Academic Press (One of them with more than 17000 copies sold)
- Co-Editor of one book in English, Prentice Hall
- Co-author of three text books in Greek

Top five publications

- M. Mavroforakis, S. Theodoridis "A geometric approach to support vector machine (SVM) classification, IEEE Trans. on Neural Networks, Vol. 17(3), pp.671-683, 2006. (Outstanding paper award, IEEE CIS Society)
- A. Pikrakis, T. Giannakopoulos, S. Theodoridis "A speech-music discrimination framework for radio broadcasts", IEEE Transactions on Multimedia, Vol. 10(5), pp.846-858, 2008.
- K. Slavakis, S. Theodoridis, I Yamada, "Adaptive constrained learning in reproducing kernel Hilbert spaces", IEEE Transactions on Signal Processing, pp. 4744-4764, Vol 57(12), 2009.

- P. Bouboulis, K. Slavakis, S. Theodoridis, "Image denoising using kernels and semiparametric regularization", IEEE Transactions on Image Processing, Vol. 19(6), pp. 1465-1480, 2010. (number two in the list of top downloaded papers in June 2010 in IEEE Trans. IP).
- P. Bouboulis, S. Theodoridis "Extension of Wirtinger Calculus to Reproducing Kernel Hilbert Spaces and the complex kernel LMS", IEEE Transactions on Signal Processing, Vol 59(3), pp. 964-978, 2011.

Distinctions:

- Fellow IEEE (cited for: contributions to the design of adaptive signal processing systems)
- Fellow EURASIP (cited for: contributions to adaptive signal processing and machine learning)
- Fellow IET
- Corresponding Fellow RSE (Scottish Academy of Arts and Science)
- IEEE Signal Processing Soc. Distinguished Lecturer, 2009-10.

Other Activities:

- Member, Board of Governors, IEEE SP Society, 2011-2014.
- Member, Board of Governors, IEEE CAS Society, 2007-2010.
- President, European Association for Signal Processing, EURASIP, 2004-2006.
- Total research funding (last 5 years): 2.260.000 Euros

Awards:

- Co-author of the paper that received the **Best Scientific paper award** (Track III: Signal, Speech, Image and Video Processing) the 20th International Conference on Pattern Recognition, ICPR, Istanbul, Turkey, 2010..
- Co-author of the paper that received **the Best student paper award** of the Intl. Workshop on Cognitive Information Processing, Elba, Italy, 2010.
- Co-author of the paper that received the **2009 Outstanding paper award** of the IEEE Transactions on Neural networks.
- Co-author of the paper that received the **Best student paper award** in IEEE Workshop on Multimedia and Signal Processing, Crete, Greece, 2007
- Co-author of the paper that received the **Best paper award** in Multimedia Metadata Applications (M3A) Workshop, Innovations Conference for Knowledge Management, New Media Technologies and Semantic Technologies (Triple-i: i-Know, i-Semantics, i-Media),Graz, Austria, 2007.
- Co-author of the paper that received the **Best student paper award** in European Signal Processing Conference (EUSIPCO), Antalya, Turkey, 2005.