

Evangelos Vlachos

University of Patras
Department of Computer Engineering and
Informatics
University Campus, Rio, 26500
Patras, Greece

Phone (work): +30 2610 996970
Mobile: +30 6978113324
Email: vlaxose@ceid.upatras.gr
Homepage: xanthippi.ceid.upatras.gr/people/vlaxose

Education

- 2009-2015 | **Ph.D.** in Wireless Communications and Signal Processing, University of Patras, Greece.
Dissertation: *Efficient transceiver techniques for interference and fading mitigation in wireless communication systems*, Advisor: Prof. K. Berberidis
- 2006-2009 | **M.Sc.** in Signal Processing and Communications, University of Patras, Greece.
Thesis: *Adaptive techniques for V-BLAST like receivers for MIMO systems*, Advisor: Prof. K. Berberidis
- 1999-2005 | **Diploma** of Computer Engineering and Informatics, University of Patras, Greece.
Analysis and Implementation of Equalization Methods for MIMO systems in Frequency Domain, Advisor: Prof. K. Berberidis

Publications

Under review

- 2016 | **[J4]** E. Vlachos and K. Berberidis. Adaptive windowing for ICI mitigation in doubly selective channels with unknown statistics. *IEEE Signal Processing Letters*, to be submitted

Journals

- 2016 | **[J3]** A.S. Lalos, I. Nikolas, E. Vlachos, and K. Moustakas. Compressed sensing for efficient encoding of dense 3D meshes using model based Bayesian learning. *IEEE Transactions on Multimedia*, 2016
- 2016 | **[J2]** E. Vlachos, A.S. Lalos, and K. Berberidis. Low-complexity OSIC equalization for vehicular communications. *IEEE Transactions on Vehicular Technology*, 2016
- 2012 | **[J1]** E. Vlachos, A.S. Lalos, and K. Berberidis. Stochastic gradient pursuit for adaptive equalization of sparse multipath channels. *IEEE Journal on Emerging and Selected Topics in Circuits and Systems*, 2(3):413–423, 2012-09. ISSN 2156-3357. doi: 10.1109/JETCAS.2012.2214631. URL <http://dx.doi.org/10.1109/JETCAS.2012.2214631>

Conferences

- 2016 | **[C9]** E. Vlachos and K. Berberidis. Distributed adaptive completion of the correlation matrix in wireless sensor networks. In *EUSIPCO*, 2016a

- [C8] E. Vlachos and K. Berberidis. Blind distributed beamforming via matrix completion. In *IEEE International workshop on Signal Processing advances in Wireless Communications (SPAWC)*, 2016b
- 2013 [C7] E. Vlachos, A.S. Lalos, and K. Berberidis. Galerkin projections-based ICI cancellation in OFDM systems with doubly selective channels. In *18th International Conference on Digital Signal Processing (DSP)*, pages 1–6, Jul. 2013
- [C6] E. Vlachos, A.S. Lalos, and K. Berberidis. Regularized MMSE ICI equalization for OFDM systems over doubly selective channels. In *IEEE International Symposium on Signal Processing and Information Technology*, pages 458–463, 2013-12. doi: 10.1109/ISSPIT.2013.6781924
- [C5] C. G. Tsinos, E. Vlachos, and K. Berberidis. Distributed blind adaptive computation of beamforming weights for relay networks. In *IEEE 24th International Symposium on Personal Indoor and Mobile Radio Communications (PIMRC)*, pages 570–574, Sept. 2013. doi: 10.1109/PIMRC.2013.6666201
- [C4] V. Kekatos, E. Vlachos, D. Ampeliotis, G. Giannakis, and K. Berberidis. A decentralized approach to generalized power system state estimation. In *IEEE 5th International Workshop on Computational Advances in Multi-Sensor Adaptive Processing (CAMSAP)*, Dec. 2013
- [C3] E. Adamidi, E. Vlachos, A. Dermitzakis, K. Berberidis, and N. Pallikarakis. A scheme for X-ray medical image denoising using sparse representations. In *IEEE 13th International Conference on Bioinformatics and Bioengineering (BIBE)*, 2013
- 2012 [C2] E. Vlachos, A. Lalos, G. Lionas, and K. Berberidis. Compressed sensing techniques for decision feedback equalization of sparse wireless channels. In *IEEE 75th Vehicular Technology Conference (VTC Spring)*, 2012
- 2011 [C1] A. Lalos, E. Vlachos, K. Berberidis, and A. Rontogiannis. Greedy algorithms for sparse adaptive decision feedback equalization. In *IEEE Signal Processing and Information Technology (ISSPIT)*, 2011

Participation in Research Projects

- 2015–2016 **HANDiCAMS** (European FP7 FET)
Heterogeneous Ad-Hoc Networks for Distributed, Cooperative, and Adaptive Multimedia Signal Processing
- 2012–2015 **ENDECON** (Greek program THALES)
Energy efficient Design of Communications Networks
- 2013–2015 **GRIC** (Greece – French bilateral project)
Smart Grid Renewables Integration: Communication and Information Processing Issues
- 2011–2013 **THERMOCAMERA** (Collaboration with Cyprus)
Development of a handheld thermal imaging device for inspection of structures

Participation in Proposal Preparation

2015	COM-MED (<i>COMMunication systems with renewable Energy micro-grid</i>) Funded by FP7 ERANET-MED, 4 partners
2013	GRIC (<i>Smart Grid Renewables Integration: Communication and Information Processing Issues</i>) Funded by FP7, collaboration with SUPELEC
2012	ENDECON (<i>Energy efficient Design of Communications Networks</i>) Funded by the Greek General Secretariat for Research and Technology, 4 partners

Teaching Experience

Digital Communications Class, 2013 to Present

Teaching assistant for “Digital Communications.” (Prof. K. Berberidis), Department of Computer Engineering and Informatics”, University of Patras.

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