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EDUCATION

PhD, Signal Processing, Carlos III University of Madrid, Spain. (Expected) 2018 Thesis Title: Stochastic Filtering in High Dimensions Supervisor: Joaquin Miguez.

MSc, Telecommunications Engineering, Istanbul Technical University, Turkey. 2012 Thesis Title: A Structured Sparse Decomposition Method for Audio Signals

BSc, Telecommunications Engineering, Istanbul Technical University, Turkey. 2010 Thesis Title: Anisotropic Diffusion in Image Processing

SELECTED WRITINGS

- 1. "On the Relationship between Online Optimizers and Recursive Filters", Ö. D. Akyıldız, V. Elvira, J. Fernandez-Bes, J. Miguez, NIPS Workshop on Optimizing the Optimizers, Barcelona, Spain, 2016.
- 2. "Matrix Factorisation with Linear Filters", Ö. D. Akyıldız, Preprint, arXiv:1509.02088, 2015.
- 3. "Online Matrix Factorization via Broyden Updates", Ö. D. Akyıldız, Preprint, arXiv:1506.04389, 2015.
- 4. "Primal-Dual Algorithms for Audio Decomposition Using Mixed Norms", İ. Bayram, Ö. D. Akyıldız, Journal of Signal, Image and Video Processing, 2014.
- 5. "An Analysis Prior Based Decomposition Method for Audio Signals", Ö. D. Akyıldız and İ. Bayram, EUSIPCO 2012.

WORK EXPERIENCE

Research Associate, Carlos III University of Madrid, Spain. 2015 – with Signal Processing Group (GTS). on stochastic filters; Monte Carlo methods.

Research Assistant, Boğaziçi University, Istanbul, Turkey. 2012 – 2015 under the supervision of A. Taylan Cemgil with Statistical Inference Group. on Bayesian statistics; machine learning; probabilistic inference.

Quantitative Researcher, algosis inc. 2014 – 2015 on financial time series analysis; portfolio optimization; algorithmic trading.

Research Assistant, Istanbul Technical University, Turkey. 2010 – 2012 on convex optimisation; machine learning; signal processing.

VISITS & CONFERENCES

NIPS Conference, Barcelona, Spain.

5-10 December 2016.

European Workshop on Reinforcement Learning, Barcelona, Spain. 3-4 December 2016.

IEEE Workshop on Statistical Signal Processing, Palma, Spain. 26-29 June 2016.

School of Mathematical Sciences, Queen Mary University of London, UK.

• 14-24 December 2015 / 1-5 February 2016 / 16-20 May 2016

Workshop on Sequential Monte Carlo, Imperial College London, UK. 21-23 Dec. 2015

TEACHING EXPERIENCE	Teaching Assistant (Voluntarily), Boğaziçi University, Istanbul, Tu Monte Carlo methods (graduate course) \times 3 Instructor: A. Taylan Cemgil, Dept. of Computer Engineering.	rkey. 2013 – 2015
	Bayesian statistics and machine learning (graduate course) \times 2 Instructor: A. Taylan Cemgil, Dept. of Computer Engineering.	2013 - 2014
PROFESSIONAL ACTIVITIES	$Reviewer \ {\it for the following journals: Digital Signal Processing, Elsevier; IEEE Signal Processing Letters; EURASIP Journal on Image and Video Processing.}$	
SKILLS	MATLAB, Python, LaTeX.	
GRADUATE SCHOOLS	Summer School on Uncertainty Quantification for Applied Problems 4-8 July 2016 Basque Center for Applied Mathematics, Bilbao, Spain.	
	Machine Learning Summer School Max Planck Institute of Intelligent Systems, Tübingen, Germany. (accepted with extremely competitive full financial support.)	13-24 July 2015
	Foundations and Advances in Stochastic Filtering Barcelona, Spain.	22-26 June 2015
	Lectures on Large Deviations and Probability Models Mathematics Village, Şirince, Turkey.	1-8 September 2013
HONORS	• Protel A.Ş. Graduate Fellowship	2010 - 2012
	• Istanbul Metropolitan Municipality Undergraduate Fellowshi	
	• Premiership Undergraduate Fellowship	2005 - 2010
TALKS	Selected talks I gave.	
	· ·	November 14, 2016
	\bullet Matrix Factorisation with Linear Filters, at UC3M	October 22, 2015
	\bullet Particle methods for parameter estimation, at Bogazici	March 31, 2015
	\bullet An online EM algorithm and applications, at Bogazici	November 26, 2013
	• Stochastic approximations, at Bogazici	March 26, 2013
	\bullet Learning in Linear Dynamical Systems, at Bogazici	January 21, 2013
OTHER	I play guitar and drums, I like to read philosophy, I maintain a reshttp://www.almoststochastic.com.	earch blog:

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