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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

PAPERS

- "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, Tur Monte Carlo methods (graduate course) \times 3 Instructor: A. Taylan Cemgil, Dept. of Computer Engineering.	key. 2013 – 2015
	Bayesian statistics and machine learning (graduate course) \times 2 Instructor: A. Taylan Cemgil, Dept. of Computer Engineering.	2013 - 2014
SKILLS	MATLAB, Python, LaTeX.	
GRADUATE SCHOOLS	Spring School and Workshop on Volatility Dynamics Bernoulli Center, EPFL, Lausanne, Switzerland.	10-13 April 2017
	Summer School on Uncertainty Quantification for Applied Problems Basque Center for Applied Mathematics, Bilbao, Spain.	s 4-8 July 2016
	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.	-8 September 2013
HONORS	• Protel A.Ş. Graduate Fellowship	2010 - 2012
	• Istanbul Metropolitan Municipality Undergraduate Fellowship	2005 - 2008
	• Premiership Undergraduate Fellowship	2005 - 2010
TALKS	$Talks\ that\ I\ gave.$	
	• Filtering in high-dimensional spaces, at UC3M	November 14, 2016
	\bullet Matrix Factorisation with Linear Filters, at UC3M	October 22, 2015
	• Particle methods for parameter estimation, at Bogazici	March 31, 2015
	• An online EM algorithm and applications, at Bogazici N	November 26, 2013
	• Stochastic approximations, at Bogazici	March 26, 2013
	• Learning in Linear Dynamical Systems, at Bogazici	January 21, 2013
OTHER	I play guitar and drums, I like to read philosophy, I maintain a resehttp://www.almoststochastic.com.	arch blog:

Last updated: April 5, 2017