

DOĞAÇ BAŞARAN

Institut Mines-Telecom, Telecom Paristech
46 Rue Barrault 75013
Paris France
Phone: +33 6 49 16 49 24
dogac.basaran@gmail.com
www.dogacbasaran.com

Education

- 2005–2015 **PhD** in Electrical and Electronics Engineering, Boğaziçi University, Istanbul, Turkey.
Supervisor: Prof. Emin Anarım
Co-advisor: Assoc. Prof. Ali Taylan Cemgil
Thesis topic: Model Based Multiple Audio Sequence Alignment
- 2002–2005 **MS** in Electrical and Electronics Engineering, Boğaziçi University, Istanbul, Turkey.
Supervisor: Assoc. Prof. Kerem Harmancı
Thesis: Blind Audio Source Separation with Convolutively Mixed Signals
- 1997–2002 **BS** in Electrical and Electronics Engineering, Boğaziçi University, Istanbul, Turkey.
Supervisor: Prof. Bülent Sankur
Thesis: Blind Source Separation with Duet Algorithm
- 1991–1997 High School in Antalya Anadolu Lisesi, Antalya, Turkey (*3rd rank in graduation*)

Professional Experience

- 2016–present Post-doctoral Researcher at TSI, Telecom-Paristech, Paris, France.
Research on speaker identification under a European project (FP7), LASIE. Research on melody extraction
- 2014–2016 Research Engineer in SPiDR WebRTC Gateway-NETAS
Researcher on web real-time communications, Preparation of Tübitak TEYDEB and European project proposals, Codec optimization for low bandwidth channels.
- 2008–2014 Researcher at **TAM Project** (Teleiletişim ve Enformatik Alanlarında Araştırmacı ve Akademisyen Yetiştirme Merkezi Projesi)
- 2013 Researcher in Audio Watermarking in Noise-free and Background Noise Environments project in Collaboration with Turk Telekom
- 2011–2012 Researcher in Audio Sequence Alignment Project in Collaboration with Singular Software Inc. Canada
- 2010 Researcher in Adaptive Noise Cancellation in Car Environment project in Collaboration with Ford Otosan
- 2005–2006 Programmer in KDE which is subsidiary high-tech company of KDE Inc.
Worked on Smart Card solutions for Electronic Payment Systems and secure e-Commerce applications.

Teaching

2016	Instructor of "Fundamentals of Multimedia Communications" in Boğaziçi University (Graduate level)
2015–2016	Instructor of "Introduction to Telecommunications" in Bahçeşehir University
2014–2015	Instructor of "Fundamentals of Multimedia Communications" in Bahçeşehir University
2014–2015	Instructor of "Introduction to Statistics for Social Sciences" in Boğaziçi University

Publications

Journals

2016	A. Atalay, D. Başaran, "SDP Compression Algorithm for WebRTC: ESDiPi" <i>International Journal of Computer and Electrical Engineering</i> , Vol. 8, No. 1, pp. 77-83, 2016.
2016	D. Başaran, A. T. Cemgil and E. Anarım, "Multi Resolution Multiple Audio Sequence Alignment using Sequential Monte Carlo Samplers" <i>Digital Signal Processing&SoftwareX special issue</i> , 2016 (Submitted).
2015	D. Başaran, A. T. Cemgil and E. Anarım, "A Probabilistic Model-Based Approach for Aligning Multiple Audio Sequences" in <i>IEEE Transactions on Audio, Speech and Language Processing</i> , Vol. 23, No. 7, pp. 1160-1171, 2015.

Conference Papers

2016	D. Başaran, A. T. Cemgil and E. Anarım, "Tempo Özütleme Öncül İşlemesi ile Model Tabanlı Çoklu Müzik Dizisi Hizalaması", in 2016 24th Signal Processing and Communication Application Conference (SIU), 2016, pp. 1525-1528.
2015	B. Daldal, I. Bilgin, D. Başaran, S. Metin, "Using Web Services For WebRTC Signaling Interoperability", NOMS 2016 - 2016 IEEE/IFIP Network Operations and Management Symposium, Istanbul, 2016, pp. 780-783.
2015	M. M. Suzgun, H. Pehlivan, C. Camgoz, A. Kindirliolu, D. Başaran, C. Togay, L. Akarun, "Hospisign: An Interactive Sign Language Platform for Hearing Impaired", International Conference on Computer Graphics, Animation and Gaming Technologies, 2015.
2013	D. Başaran, A. T. Cemgil and E. Anarım, "SMC Samplers for Multiresolution Audio Sequence Alignment" in International Conference on Acoustics Speech and Signal Processing ICASSP, 2013.
2013	D. Başaran, A. T. Cemgil and E. Anarım, "Belirlenimci Benzerlik Yöntemlerine Dayalı Model Tabanlı Ses Dizisi Hizalaması (Model Based Audio Sequence Alignment Based on Deterministic Similarity Methods)" in Signal Processing and Communications Applications Conference, IEEE 21th, 2013.
2011	D. Başaran, A. Cemgil and E. Anarım, "Model Tabanlı Ses Dizisi Hizalaması (Model based audio sequence alignment)" in Signal Processing and Communications Applications (SIU), 2011 IEEE 19th Conference on, pp. 606 -609, April 2011.
2011	D. Başaran, A. T. Cemgil and E. Anarım, "Model Based Multiple Audio Sequence Alignment" in Proc. IEEE Workshop on Applications of Signal Processing to Audio and Acoustics WASPAA '11, pp. 13-16, 2011. CPCI-S.

Patents

2015 | D. Başaran, A. Atalay, "SDP verilerinin sıkıştırılması için bir veri sıkıştırma yöntemi", TPE, 2015 (Submitted).

Research Interests

Musical Signal Processing, Multiple Audio Alignment, Audio Fingerprinting (Audio Matching), Statistical Signal Processing, Bayesian and approximate inference, Machine Learning, Audio Source Separation, Network Multimedia Communications (Video Coding Algorithms).

Computer Skills

Programming Languages: | Python, Matlab, C/C++, Visual C++, Objective C, Visual basic, Java, Assembly, Latex

Awards and Memberships

1997 | ÖYS Turkey's 193'th out of 1,000,000 high scoring in National maths & science

References

Prof. Emin Anarım - Boğaziçi University Electrical and Electronics Engineering Department Academic

Prof. Kadri Özçaldıran - Boğaziçi University Electrical and Electronics Engineering Department Academic

Assoc. Prof. Ali Taylan Cemgil - Boğaziçi University Computer Engineering Department Academic

Prof. Fatih Alagöz - Boğaziçi University Computer Engineering Department Academic