

Prof. Lütfiye Durak Ata

Personal Information

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Biography

Lutfiye Durak-Ata received her BS, MS and PhD degrees all in Electrical Engineering Department of Bilkent University, Ankara, Turkey. She worked in the Statistical Signal Processing Laboratory of Korean Advanced Institute of Science and Technology, KAIST between 2004-2005, and in the Electronics and Communications Engineering Department of Yildiz Technical University, Istanbul, Turkey between 2005-2015. Since September 2015, she has been working in Informatics Institute of Istanbul Technical University, where she is currently a professor. She is an IEEE Senior Member since 2010. She is also a member of EURASIP and one of the Local Liaison Officers of Turkey since 2009. Her research interests are in time-frequency signal processing, statistical signal processing, and communications theory.

Education Information

Doctorate, İhsan Doğramacı Bilkent Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 1999 - 2004

Post Graduate, İhsan Doğramacı Bilkent Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 1996 - 1999

Under Graduate, İhsan Doğramacı Bilkent Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 1992 - 1996

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Novel Time-Frequency Analysis Techniques for Deterministic Signals, İhsan Doğramacı Bilkent Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2003

Post Graduate, Nanosecond Optical Parametric Oscillators Generating Eye-Safe Radiation, İhsan Doğramacı Bilkent Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1998

Research Areas

Information Systems, Communication and Control Engineering, Communication Engineering, Wireless Communication, Signal Processing, Signal Processing Theory and Methods, Engineering and Technology

Academic Titles / Tasks

Professor, İstanbul Teknik Üniversitesi, Bilişim Enstitüsü, Bilişim Uygulamaları, 2017 - Continues

Associate Professor, İstanbul Teknik Üniversitesi, Bilişim Enstitüsü, Bilişim Uygulamaları Anabilim Dalı, 2015 - 2017

Associate Professor, Yıldız Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, 2011 - 2015

Assistant Professor, Yıldız Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, 2005 - 2011

Research Assistant, İhsan Doğramacı Bilkent Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1996 - 2004

Academic and Administrative Experience

Director of The Institution, Istanbul Technical University, Bilişim Enstitüsü, 2018 - Continues

İstanbul Teknik Üniversitesi, Bilişim Enstitüsü, Bilişim Uygulamaları Anabilim Dalı, 2016 - 2018

İstanbul Teknik Üniversitesi, Bilişim Enstitüsü, Bilişim Uygulamaları Anabilim Dalı, 2016 - 2017

Yıldız Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, 2008 - 2010

Yıldız Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, 2006 - 2009

Courses

Mathematical Methods for Signal Processing, Post Graduate, 2016 - 2017

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Performance analysis of free space optical communication systems over imprecise Málaga fading channels**
Ibrahim A. A. , Ata S. Ö. , Erdoğan E., Durak-Ata L.
Optics Communications, vol.457, 2020 (Journal Indexed in SCI)
- II. **Multi-user shared access in massive machine-type communication systems via superimposed waveforms**
Catak E., Tekce F., Dizdar O., Durak-Ata L.
PHYSICAL COMMUNICATION, vol.37, 2019 (Journal Indexed in SCI)
- III. **Large-scale offline signature recognition via deep neural networks and feature embedding**
Calik N., Kurban O. C. , Yilmaz A. R. , YILDIRIM T., Durak Ata L.
NEUROCOMPUTING, vol.359, pp.1-14, 2019 (Journal Indexed in SCI)
- IV. **Signal Space Cognitive Cooperation**
ERDOĞAN E., Afana A., Sokun H. U. , Ikki S., Durak-Ata L., Yanikomeroğlu H.
IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, vol.68, no.2, pp.1953-1957, 2019 (Journal Indexed in SCI)
- V. **Interference Alignment in Multi-Hop Cognitive Radio Networks under Interference Leakage**
ERDOĞAN E., Colak S. A. , Alakoca H., Namdar M., Basgumus A., Durak-Ata L.
APPLIED SCIENCES-BASEL, vol.8, no.12, 2018 (Journal Indexed in SCI)
- VI. **Adaptive filterbank based multi carrier waveform design for flexible data rates**
CATAK E., DURAK ATA L.
Computers & Electrical Engineering, vol.61, pp.184-194, 2017 (Journal Indexed in SCI)
- VII. **Enhanced LPI Waveform Representation by Ambiguity-Domain Elliptical Gaussian Filtering**
GULUM T. O. , ERDOGAN A. Y. , Ata L., YILDIRIM T., Pace P. E.
IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS, vol.53, no.2, pp.762-777, 2017 (Journal Indexed in SCI)
- VIII. **FMCW Signal Detection and Parameter Extraction by Cross Wigner-Hough Transform**

ERDOGAN A. Y. , GULUM T. O. , Durak-Ata L., YILDIRIM T., Pace P. E.

IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS, vol.53, no.1, pp.334-344, 2017 (Journal Indexed in SCI)

IX. High-resolution signal processing techniques for through-the-wall imaging radar systems

TÜRK A. S. , Ozkan-Bakbak P., DURAK-ATA L., Orhan M., Unal M.

International Journal of Microwave and Wireless Technologies, vol.8, no.6, pp.855-863, 2016 (Journal Indexed in SCI)

Articles Published in Other Journals

I. BER Performance of Full-Duplex Cognitive Radio Network With Nonlinear Energy Harvesting

Babaei M., AYGÖLÜ H. Ü. , Başaran M., DURAK ATA L.

IEEE Transactions on Green Communications and Networking, vol.4, no.2, pp.448-460, 2020 (Refereed Journals of Other Institutions)

Citations

Total Citations (WOS):298

h-index (WOS):10