

# Prof. ERDOĞAN DİLAVEROĞLU

## Personal Information

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## International Researcher IDs

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Publons / Web Of Science ResearcherID: EWI-6920-2022

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## Education Information

Doctorate, University of Colorado at Colorado Springs, Telekomünikasyon, United States Of America 1987 - 1991

Undergraduate, Istanbul Technical University, Elektrik-Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, Turkey 1977 - 1983

## Research Areas

Electrical and Electronics Engineering

## Academic Titles / Tasks

Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ, 2005 - Continues

Associate Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ, 1999 - 2005

Assistant Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ, 1992 - 1999

## Academic and Administrative Experience

Head of Department, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ, 2007 - 2013

Bursa Uludağ University, Mühendislik-Mimarlık Fakültesi, 2000 - 2010

## Supervised Theses

DİLAVEROĞLU E., Comparative performance analysis of some instantaneous frequency estimators, Postgraduate, A.Demir(Student), 2020

- DİLAVEROĞLU E., A comparative performance analysis of some fast and accurate frequency estimators, Postgraduate, S.Hazal(Student), 2020
- DİLAVEROĞLU E., PHD ve k-PHD tek-ton frekans kestiricilerinin bir değişimi analizi: Rasgele faz durumu, Postgraduate, K.BETOFE(Student), 2019
- DİLAVEROĞLU E., Performance analysis of frequency estimators, Doctorate, E.YILMAZ(Student), 2007

## **Published journal articles indexed by SCI, SSCI, and AHCI**

- I. **Speech steganalysis based on the delay vector variance method**  
Kocal O. H., Yuruklu E., DİLAVEROĞLU E.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.24, no.5, pp.4129-4141, 2016 (SCI-Expanded)
- II. **Asymptotic Cramer-Rao bounds for two closely spaced damped cisoids**  
Yilmaz E., Dilaveroglu E.  
SIGNAL PROCESSING, vol.86, no.11, pp.3388-3392, 2006 (SCI-Expanded)
- III. **CRBs and MLEs for SNR estimation of noncoherent BFSK signals in Rayleigh fading channels**  
Dilaveroglu E., Ertas I.  
ELECTRONICS LETTERS, vol.41, no.2, pp.79-80, 2005 (SCI-Expanded)
- IV. **Asymptotic worst and best case Cramer-Rao bounds for estimation of parameters of low-frequency damped sinusoid**  
Yilmaz E., Dilaveroglu E.  
ELECTRONICS LETTERS, vol.41, no.2, pp.104-106, 2005 (SCI-Expanded)
- V. **Cramer-Rao bounds on SNR estimation of BPSK signals in Rayleigh fading channels with dual MRC diversity**  
Ertas I., Dilaveroglu E.  
ELECTRONICS LETTERS, vol.40, no.12, pp.742-744, 2004 (SCI-Expanded)
- VI. **Asymptotic CRB on SNR estimation of OPSK signals in low-SNR Nakagami-m fading channels with diversity combining**  
Dilaveroglu E., Ertas T.  
ELECTRONICS LETTERS, vol.40, no.11, pp.678-679, 2004 (SCI-Expanded)
- VII. **Low-SNR asymptote of CRB on SNR estimates for BPSK in Nakagami-m fading channels with diversity combining**  
Ertas T., Dilaveroglu E.  
ELECTRONICS LETTERS, vol.39, no.23, pp.1680-1682, 2003 (SCI-Expanded)
- VIII. **Simple general expression for Cramer-Rao bound in presence of nuisance parameters**  
Dilaveroglu E.  
ELECTRONICS LETTERS, vol.38, no.25, pp.1750-1751, 2002 (SCI-Expanded)
- IX. **Simple expressions for worst and best case Cramer-Rao bounds for amplitude and phase estimation of closely spaced cisoids**  
Dilaveroglu E.  
ELECTRONICS LETTERS, vol.35, no.18, pp.1522-1523, 1999 (SCI-Expanded)
- X. **Simple expressions for worst and best case Cramer-Rao bounds for amplitude and phase estimation of low-frequency sinusoid**  
Dilaveroglu E.  
ELECTRONICS LETTERS, vol.35, no.3, pp.206-208, 1999 (SCI-Expanded)
- XI. **Nonmatrix Cramer-Rao bound expressions for high-resolution frequency estimators**  
Dilaveroglu E.  
IEEE TRANSACTIONS ON SIGNAL PROCESSING, vol.46, no.2, pp.463-474, 1998 (SCI-Expanded)

## Articles Published in Other Journals

- I. **On the performance of maximum-likelihood estimators of SNR for noncoherent BFSK signals in Rayleigh fading channels**  
DİLAVEROĞLU E., ERTAŞ T.  
Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, vol.10, no.1, pp.71-78, 2005 (Peer-Reviewed Journal)
- II. **Bir Reel Alçak Frekanslı Sönümlü Sinüsün Parametrelerinin Kestirimine İlişkin En Kötü ve En İyi Durumlardaki Cramér Rao Sınırları İçin Basit İfadeler**  
YILMAZ E., DİLAVEROĞLU E.  
Uludağ Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.9, no.2, pp.89-93, 2004 (Peer-Reviewed Journal)
- III. **The CRB of SNR estimates for BPSK signals in Rayleigh fading channels with correlated dual MRC diversity**  
ERTAŞ T., DİLAVEROĞLU E.  
Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, vol.9, no.11, pp.201-205, 2004 (Peer-Reviewed Journal)

## Papers Published in Refereed Scientific Meetings

- I. **Fourier Seri Analizi İçin Bir Arayüz Programı**  
VATANSEVER F., YILMAZ E., DİLAVEROĞLU E.  
IATS'11 6th International Advanced Technologies Symposium, Elazığ, Turkey, 16 - 18 May 2011, pp.138-141
- II. **A Performance Analysis for DMUSIC**  
YILMAZ E., DİLAVEROĞLU E.  
ELECO'2007 International Conference on Electrical and Electronics Engineering, Bursa, Turkey, 5 - 09 December 2007, pp.197-200
- III. **Bir Reel Sönümlü Sinüsün Parametrelerinin Kestirimine İlişkin Kritik Faz Değerleri için Basit İfadeler**  
YILMAZ E., DİLAVEROĞLU E.  
ELECO'2006 Elektrik-Elektronik-Bilgisayar Mühendisliği Sempozyumu, Bursa, Turkey, 6 - 10 December 2006, pp.257-261
- IV. **İki Kompleks Sönümlü Sinüs İçin Matrissel Olmayan Cramér Rao Sınır İfadeleri**  
YILMAZ E., DİLAVEROĞLU E.  
SIU'05 IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Kayseri, Turkey, 16 - 18 May 2005, pp.372-375
- V. **Bir Reel Sönümlü Sinüs İçin Matrissel Olmayan Cramér Rao Sınır İfadeleri**  
YILMAZ E., DİLAVEROĞLU E.  
ELECO'2004 Elektrik-Elektronik-Bilgisayar Mühendisliği Sempozyumu, Bursa, Turkey, 8 - 12 December 2004, pp.207-210
- VI. **Bilinmeyen Renkli Gürültü İçindeki Sinüslerin Frekans Kestirimi için Derli Toplu Cramer Rao Sınır İfadeleri**  
YILMAZ E., DİLAVEROĞLU E.  
SIU'04 IEEE 12. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Aydın, Turkey, 28 - 30 April 2004, pp.391-394
- VII. **Compact Cramer-Rao bound expressions for frequency estimation of sinusoidal signals in unknown colored noise**  
Yilmaz E., Dilaveroglu E.  
IEEE 12th Signal Processing and Communications Applications Conference, Kusadasi, Turkey, 28 - 30 April 2004, pp.391-394
- VIII. **On the performance of a novel nonlinear least squares frequency estimator**  
Dilaveroglu E.  
IEEE-EURASIP Workshop on Nonlinear Signal and Image Processing (NSIP 99), Antalya, Turkey, 20 - 23 June 1999, pp.632-635
- IX. **Mean and variance of leakage-affected estimates of the power spectrum of a real sinusoidal process**  
Dilaveroglu E.  
3rd International Conference on Signal Processing (ICSP 96), Beijing, China, 14 - 18 October 1996, pp.237-240

## **Metrics**

Publication: 24

Citation (WoS): 55

Citation (Scopus): 66

H-Index (WoS): 3

H-Index (Scopus): 3

## **Non Academic Experience**

Uludağ Üniversitesi, Öğretim Üyesi