

# Prof. TUNCAY ERTAŞ

## Personal Information

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## International Researcher IDs

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Publons / Web Of Science ResearcherID: AAH-4122-2021

Yoksis Researcher ID: 5849

## Education Information

Doctorate, University of Sussex, United Kingdom 1989 - 1994

Postgraduate, Dokuz Eylul University, Turkey 1986 - 1988

Undergraduate, Dokuz Eylul University, Turkey 1982 - 1986

## Foreign Languages

English, C1 Advanced

## Research Areas

Information Systems, Communication and Control Engineering, Communication Engineering, Information Theory, Communication System Theory, Error Corrector Codes, Wireless Communication, Modulation Methods, Telecommunication Applications, Engineering and Technology

## Academic Titles / Tasks

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

Associate Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ, 1998 - 2005

Assistant Professor, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1996 - 1998

Lecturer, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1994 - 1995

Research Assistant, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1986 - 1994

## Advising Theses

ERTAŞ T., İşbirlikli kablosuz ağlarda spektral birliktelik, Postgraduate, O.Habanabakize(Student), 2019

ERTAŞ T., Bilişsel radyo ağlarında kirli kağıt kodlama ile spektral birliktelik, Postgraduate, K.Jaiteh(Student), 2016

ERTAŞ T., Spectrum sharing in cognitive radio networks, Postgraduate, B.Jahja(Student), 2015

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

- I. **Capacity Analysis of Channel Inversion Using Space-Time Block Coding with Transmit Power Control**  
ERDEM N., ERTAŞ T.  
ELEKTRONIKA IR ELEKTROTEHNIKA, vol.28, no.2, pp.78-84, 2022 (SCI-Expanded)
- II. **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)
- III. **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)
- IV. **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)
- V. **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)
- VI. **Upper bounds on the free distance for a class of convolutional coded CPFSK signals**  
Ertas T.  
IEEE COMMUNICATIONS LETTERS, vol.5, no.12, pp.483-485, 2001 (SCI-Expanded)
- VII. **Upper bounds on the free distance for trellis codes combined with CPFSK signals**  
Ertas T., Ali F.  
ELECTRONICS LETTERS, vol.33, no.17, pp.1438-1440, 1997 (SCI-Expanded)
- VIII. **Trellis coded self-synchronous multi-h CPM**  
Ertas T., Ali F.  
ELECTRONICS LETTERS, vol.33, no.4, pp.271-273, 1997 (SCI-Expanded)
- IX. **TRELLIS-CODED MULTI-H CPM FOR POWER AND BANDWIDTH EFFICIENCY**  
ERTAS T., POON F.  
ELECTRONICS LETTERS, vol.29, no.2, pp.229-230, 1993 (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. **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)
- III. **Analysis of selection diversity on the matched filter bound of BPSK on multipath Rayleigh fading channels**  
Ertas T.  
Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, vol.9, no.1, pp.207-211, 2004 (Peer-Reviewed Journal)
- IV. **4-seviyeli tam cevaplı SEFKA sinyallerinin ilinti tabanlı demodülasyonu**  
ERTAŞ T.  
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.3, no.2, pp.1-12, 2001 (Peer-

Reviewed Journal)

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **Trellis coding combined with self-synchronous multi-h CPM**  
ERTAŞ T., ALİ F. H.  
PIMRC'xx97, Helsinki, Finland, 1 - 04 September 1997, pp.212-215
- II. **Trellis code design and its use for frequency-selective mobile radio channels**  
ERTAŞ T., POON F. S. F., DENBIGH P. N.  
ICT, Dubai, United Arab Emirates, 10 - 12 January 1994, vol.1, pp.63-66

## **Episodes in the Encyclopedia**

- I. **WILEY ENCYCLOPAEDIA OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
Ertaş T.  
John Wiley & Sons, West Sussex, UK , pp.57-75, 1999

## **Metrics**

Publication: 17

Citation (WoS): 60

Citation (Scopus): 105

H-Index (WoS): 3

H-Index (Scopus): 3

## **Non Academic Experience**

Uludağ Üniversitesi

Dokuz Eylül Üniversitesi

Dokuz Eylül Üniversitesi