

## Assoc. Prof. FİGEN ERTAŞ

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, University of Sussex, Elektronik Mühendisliği, United Kingdom 1992 - 1998

Postgraduate, Bursa Uludağ University, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 1985 - 1988

Undergraduate, Bursa Uludağ University, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 1980 - 1984

### Foreign Languages

English, C1 Advanced

### Research Areas

Information Systems, Communication and Control Engineering, Signal Processing

### Academic Titles / Tasks

Associate Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ, 2014 - Continues

Assistant Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ, 2002 - Continues

### Advising Theses

Ertas F., Design of woven fabric with increased sound transmission loss property, Postgraduate, U.GÜNAL(Student), 2020

ERTAŞ F., Detection of manipulation in recorded speech, Postgraduate, S.ÇÖPOĞLU(Student), 2013

ERTAŞ F., Map adapted classifiers for speaker recognition, Doctorate, C.HANİLÇİ(Student), 2013

ERTAŞ F., Weaving looms application with computer aided data collecting system, Postgraduate, M.ERKAN(Student), 2007

ERTAŞ F., Speaker identification with statistics modeling, Doctorate, Ö.ESKİDERE(Student), 2007  
ERTAŞ F., Speaker recognition with neural network, Postgraduate, S.BAŞARAN(Student), 2007  
ERTAŞ F., A comparative study of speaker recognition techniques, Postgraduate, C.HANİLÇİ(Student), 2007  
ERTAŞ F., Software based speech synthesiser, Postgraduate, Ö.ESKİDERE(Student), 2000

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

- I. **Investigation of the effect of data duration and speaker gender on text-independent speaker recognition**  
Hanilci C., ERTAŞ F.  
COMPUTERS & ELECTRICAL ENGINEERING, vol.39, no.2, pp.441-452, 2013 (SCI-Expanded)
- II. **Recognition of Brand and Models of Cell-Phones From Recorded Speech Signals**  
Hanilci C., ERTAŞ F., ERTAŞ T., Eskidere O.  
IEEE TRANSACTIONS ON INFORMATION FORENSICS AND SECURITY, vol.7, no.2, pp.625-634, 2012 (SCI-Expanded)
- III. **A comparison of regression methods for remote tracking of Parkinson's disease progression**  
Eskidere O., ERTAŞ F., Hanilci C.  
EXPERT SYSTEMS WITH APPLICATIONS, vol.39, no.5, pp.5523-5528, 2012 (SCI-Expanded)
- IV. **Regularized All-Pole Models for Speaker Verification Under Noisy Environments**  
Hanilci C., Kinnunen T., ERTAŞ F., Saeidi R., Pohjalainen J., Alku P.  
IEEE SIGNAL PROCESSING LETTERS, vol.19, no.3, pp.163-166, 2012 (SCI-Expanded)
- V. **Comparison of the impact of some Minkowski metrics on VQ/GMM based speaker recognition**  
Hanilci C., ERTAŞ F.  
COMPUTERS & ELECTRICAL ENGINEERING, vol.37, no.1, pp.41-56, 2011 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Mel Frekansı Kepstrum Katsayılarındaki Değişimlerin Konuşmacı Tanımaya Etkisi**  
ESKİDERE Ö., ERTAŞ F.  
Uludağ University Journal of The Faculty of Engineering, vol.14, no.2, pp.93-110, 2019 (Peer-Reviewed Journal)
- II. **Effects of Background Data Duration on Speaker Verification Performance**  
HANİLÇİ C., ERTAŞ F.  
Uludağ Üniversitesi Mühendislik- Mimarlık Fakültesi Dergisi, vol.18, no.1, pp.111-119, 2013 (Peer-Reviewed Journal)
- III. **Konuşmacı Tanıma için Eğitim Algoritmalarının Karşılaştırılması**  
Çavdarlı M., ESKİDERE Ö., ERTAŞ F.  
Journal of The Institute of Science and Technology of Erciyes University, vol.26, no.2, pp.143-153, 2010 (Peer-Reviewed Journal)
- IV. **Bürünsel Özelliklerin Özelliklerin Konuşmacı Tanıma Performansına Etkisi**  
ESKİDERE Ö., ERTAŞ F.  
Uludağ University Journal of The Faculty of Engineering, vol.14, no.2, pp.111-129, 2009 (Peer-Reviewed Journal)
- V. **Filtre Frekans Ölçeği Değişimlerinin Konuşmacı Tanımaya Etkisi**  
ESKİDERE Ö., ERTAŞ F.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BİLİMLERİ DERGİSİ, vol.27, pp.197-207, 2009 (ESCI)
- VI. **Sürekli Saklı Markov Modelleri ile Metinden Bağımsız Konuşmacı Tanıma Parametrelerinin İncelenmesi**  
HANİLÇİ C., ERTAŞ F.  
Uludağ University Journal of The Faculty of Engineering, vol.12, no.1, pp.109-114, 2007 (Peer-Reviewed Journal)
- VII. **Practical Aspects of Building a Speech Database for Speaker Recognition Systems**

- ERTAŞ F.  
Erciyes Üniversitesi Fen Bilimleri Enstitüsü Fen Bilimleri Dergisi, vol.18, pp.34-43, 2002 (Peer-Reviewed Journal)
- VIII. **Ses İşaretlerine Karşı Basilar Membran Hareketinin Yazılım Benzetimi**  
ERTAŞ F.  
Süleyman Demirel Üniversitesi, Fen Bilimleri Enstitüsü Dergisi, vol.6, no.1, pp.86-93, 2001 (Peer-Reviewed Journal)
- IX. **Feature Selection and Classification Techniques for Speaker Recognition**  
ERTAŞ F.  
Pamukkale Üniversitesi Mühendislik Fakültesi, Mühendislik Bilimleri Dergisi, vol.7, no.1, pp.47-54, 2001 (Peer-Reviewed Journal)
- X. **Yazılım Tabanlı Sözcük Sentezleyici**  
ERTAŞ F., ESKİDERE Ö.  
DEÜ Fen ve Mühendislik Dergisi, vol.3, no.1, pp.1-27, 2001 (Peer-Reviewed Journal)
- XI. **Correlogram Based Feature Selection for Speaker Identification using Vowels**  
ERTAŞ F.  
Eskişehir Osmangazi Üniversitesi, Mühendislik Mimarlık Fakültesi Dergisi, vol.13, no.2, pp.13-23, 2000 (Peer-Reviewed Journal)
- XII. **Fundamentals of Speaker Recognition**  
ERTAŞ F.  
Pamukkale Üniversitesi Mühendislik Fakültesi, Mühendislik Bilimleri Dergisi, vol.6, pp.185-193, 2000 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Tekstil Dokuma Kumaş Değişkenlerinin İç Mekânlardaki Akustik Yalıtım Başarımına Etkileri**  
Günal U., ERTAŞ F., Turgut H. İ., Koptagel H., Kaya Z., Gürler H., Kargı O., Laç Ö.  
UÇTEK 2019, Turkey, 26 - 27 September 2019, pp.398-406
- II. **Optimizing acoustic features for source cell-phone recognition using speech signals**  
HANİLÇİ C., ERTAŞ F.  
Proceedings of the first ACM workshop on Information hiding and multimedia security - IHMMSec 'xx13, Montpellier, France, 17 - 19 June 2013
- III. **Comparison of Spectrum Estimators in Speaker Verification: Mismatch Conditions Induced by Vocal Effort**  
Hanilci C., Kinnunen T., Rajan P., Pohjalainen J., Alku P., ERTAŞ F.  
14th Annual Conference of the International-Speech-Communication-Association (INTERSPEECH 2013), Lyon, France, 25 - 29 August 2013, pp.2880-2884
- IV. **SPEAKER IDENTIFICATION FROM SHOUTED SPEECH: ANALYSIS AND COMPENSATION**  
Hanilci C., Kinnunen T., Saeidi R., Pohjalainen J., Alku P., ERTAŞ F.  
IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP), Vancouver, Canada, 26 - 31 May 2013, pp.8027-8031
- V. **Destek vektör makineleri ile konuşmacı doğrulamada kanaletkilerinin dengelenmesi**  
HANİLÇİ C., ERTAŞ F.  
SIU 2012, Muğla, Turkey, 18 - 20 April 2012
- VI. **Score Normalization for VQ-UBM Based Text-Independent Speaker Verification**  
HANİLÇİ C., ERTAŞ F.  
ELECO 2011, Bursa, Turkey, 1 - 04 December 2011, vol.132
- VII. **COMPARING SPECTRUM ESTIMATORS IN SPEAKER VERIFICATION UNDER ADDITIVE NOISE DEGRADATION**  
Hanilci C., Kinnunen T., Saeidi R., Pohjalainen J., Alku P., Ertas F., Sandberg J., Hansson-Sandsten M.  
IEEE International Conference on Acoustics, Speech and Signal Processing, Kyoto, Japan, 25 - 30 March 2012, pp.4769-4772

- VIII. **Impact of Voice Excitation Features on Speaker Verification**  
HANILÇI C., ERTAŞ F.  
ELECO 2011, Bursa, Turkey, 1 - 04 December 2011, pp.137-140
- IX. **VQ-UBM BASED SPEAKER VERIFICATION THROUGH DIMENSION REDUCTION USING LOCAL PCA**  
Hanilci C., ERTAŞ F.  
19th European Signal Processing Conference (EUSIPCO), Barcelona, Spain, 29 August - 02 September 2011, pp.1303-1306
- X. **Principal Component Based Classification for Text-Independent Speaker Identification**  
Hanilci C., ERTAŞ F.  
5th International Conference on Soft Computing, Computing with Words and Perceptions in System Analysis, Decision and Control, Famagusta, CYPRUS, 2 - 04 September 2009, pp.39-42
- XI. **Konuşmacı Tanıma Sistemi için Yeni Bir Sınıflandırıcı**  
ERTAŞ F., HANILÇI C.  
ELECO 2008, Bursa, Turkey, 28 - 30 November 2008
- XII. **Parameter settings for speaker identification using Gaussian mixture model**  
Eskidere O., Ertas F.  
IEEE 15th Signal Processing and Communications Applications Conference, Eskişehir, Turkey, 11 - 13 June 2007, pp.495-496
- XIII. **Impact of pitch frequency on speaker identification**  
Eskidere O., Ertas F.  
IEEE 15th Signal Processing and Communications Applications Conference, Eskişehir, Turkey, 11 - 13 June 2007, pp.499-500

## **Metrics**

Publication: 30

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