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International Researcher IDs

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Education Information

Doctorate, University of Pittsburgh, Electrical And Computer Engineering, United States Of America 1999 - 2004

Postgraduate, Ankara University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 1994 - 1997

Undergraduate, Ankara University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 1989 - 1993

Dissertations

Doctorate, DCT Video Compositing with Embedded Zerotree Coding for Multi-Point Video Conferencing, University of Pittsburgh, Electrical And Computer Engineering, 2004

Postgraduate, Video data sıkıştırma vektör nicelleme yöntemlerinin incelenmesi, Ankara University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1997

Academic Titles / Tasks

Research Assistant, Ankara University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1995 - 2008

Courses

Sayısal Video İşaret İşleme, Doctorate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2010 - 2011, 2009 - 2010, 2008 - 2009

Lineer Sistem Analizi, Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014

Devre Analizi I, Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009

İş İdaresi, Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009

Devre Analizi II, Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009

Sayısal Hesaplama ve Sembolik Programlama, Undergraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009

Advising Theses

- ILGIN H. A., GÜNCEL GÖRÜNTÜYE DAYALI EŞ ZAMANLI KONUMLAMA VE HARİTALAMA YÖNTEMLERİNİN FARKLI VERİ KÜMELERİ ÜZERİNDEKİ PERFORMANS ANALİZİ, Postgraduate, Ö.FARUK(Student), 2021
- ILGIN H. A., Kızılötesi görüntü dizileri için düşük sinyal-gürültü oranında otomatik hedef tespiti, Doctorate, S.TUNÇ(Student), 2016
- ILGIN H. A., Hiperspektral veri sınıflandırma için boyut indirgeme yöntemlerinin başarımlarının karşılaştırılması, Postgraduate, A.ÖMER(Student), 2014
- ILGIN H. A., Ayırksız hareket vektörü ayıklama algoritmasıyla gerçek zamanlı global hareket kestirimi, Postgraduate, B.YILDIRIM(Student), 2014
- ILGIN H. A., Uydu görüntüleri üzerinde rotasyon ölçekleme ve öteleme değişmezlikli nesne tanıma, Postgraduate, Y.SOYMAN(Student), 2013
- ILGIN H. A., Programlanabilir donanım üzerinde sıkıştırıcı algılama ile görüntü yeniden oluşturma algoritması tasarımı, K.KARAKUŞ(Student), 2011
- ILGIN H. A., Programlanabilir donanım üzerinde sıkıştırıcı algılama ile görüntü yeniden oluşturma algoritmasının tasarımı, Postgraduate, K.KARAKUŞ(Student), 2011
- ILGIN H. A., Şekil eşlemeye dayalı nesne takibi yöntemi kullanarak video kodlama, Postgraduate, S.TUNÇ(Student), 2010
- ILGIN H. A., Yüz tanımda özyüz ve Fisher yüz algoritmalarının incelenmesi, Postgraduate, A.YILDIRIM(Student), 2010
- ILGIN H. A., Gerçek zamanlı videolarda ön plan ve arka plan ayrımı, Postgraduate, A.BUĞDAY(Student), 2010
- ILGIN H. A., İnternet üzerinde çok yöne video gönderimi yöntemlerinin incelenmesi, Postgraduate, M.ORDUKAYA(Student), 2009

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Pixel-Wise Signal-to-Noise Ratio: A Novel Metric for Quantifying the Detectability of Targets in Infrared Images**
Tunç S., ILGIN H. A.
Traitement du Signal, vol.40, no.1, pp.207-215, 2023 (SCI-Expanded)
- II. **Dim Target Detection in Infrared Images Using Saliency Algorithms**
Tunc S., ILGIN H. A.
RADIOENGINEERING, vol.28, no.3, pp.635-642, 2019 (SCI-Expanded)
- III. **Motion vector outlier removal using dissimilarity measure**
Yildirim B., ILGIN H. A.
DIGITAL SIGNAL PROCESSING, vol.46, pp.1-9, 2015 (SCI-Expanded)
- IV. **Adaptive network-based inference system models on multiband patch antenna design**
Demircioglu E., SAZLI M. H., Sengul O., İMECİ Ş. T., ILGIN H. A.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.23, no.1, pp.118-125, 2015 (SCI-Expanded)
- V. **Fast DCT image resizing and video compositing for multi-point video conferencing Szybkie skalowanie i składanie obrazów wideo z wykorzystaniem dyskretnej transformacji kosinusowej, na potrzeby wielopunktowej wideo-konferencji**
ILGIN H. A., İLK H. G., Voznak M., Chaparro L. F.
Przegląd Elektrotechniczny, vol.89, no.2 B, pp.193-198, 2013 (SCI-Expanded)
- VI. **Motion estimation and compensation using video object tracking Śledzenie obiektu w obrazie wideo w estymacji i kompensacji położenia**
Tunç S., ILGIN H. A.
Przegląd Elektrotechniczny, vol.89, no.2 B, pp.223-227, 2013 (SCI-Expanded)
- VII. **Global Motion Estimation Using a New Motion Vector Outlier Rejection Algorithm**
Yildirim B., ILGIN H. A.
Advances in Intelligent Systems and Computing, vol.210, pp.507-515, 2013 (SCI-Expanded)
- VIII. **The Effect of Sub-sampling on Hyperspectral Dimension Reduction**
Kozal A. Ö., Teke M., ILGIN H. A.

Articles Published in Other Journals

- I. **COMPARATIVE ANALYSIS OF MATURE TOMATO DETECTION BY FEATURE EXTRACTION AND MACHINE LEARNING FOR AUTONOMOUS GREENHOUSE ROBOTS**
ILGIN H., Aydemir F. A., Cedimoğlu B., Aydın M. N., Silleli H.
Communications Faculty of Sciences University of Ankara Series A2-A3: Physical Sciences and Engineering, vol.65, no.2, pp.100-114, 2023 (Peer-Reviewed Journal)
- II. **A COMPREHENSIVE COMPUTATIONAL COST ANALYSIS FOR STATE-OF-THE-ART VISUAL SLAM METHODS FOR AUTONOMOUS MAPPING**
YANIK Ö. F., ILGIN H. A.
Communications Faculty of Sciences University of Ankara Series A2-A3: Physical Sciences and Engineering, vol.65, no.1, pp.1-15, 2023 (Peer-Reviewed Journal)
- III. **An Artifact Reduction Method For Block-Based Video Coding**
ILGIN H. A., AKBULUT A.
Communications Faculty of Sciences University of Ankara Series A2-A3: Physical Sciences and Engineering, vol.62, no.1, pp.1-13, 2020 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Image and Video Compression Artifact Reduction at Low Bit Rates Using Local Cosine Transform in Conjunction with Significance Map Coding**
ILGIN H. A., AKBULUT A., KALAYCIOĞLU A.
11th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Pitesti, Romania, 27 - 29 June 2019
- II. **Analysis of Atmospheric Effects on Millimeter Wave Frequency Bands for Fifth Generation Mobile Networks**
Erdogan K., ILGIN H. A.
2nd International Symposium on Multidisciplinary Studies and Innovative Technologies, ISMSIT 2018, Kizilcahamam, Ankara, Turkey, 19 - 21 October 2018
- III. **Analysis of Atmospheric Effects on Millimeter Wave Frequency Bands for Fifth Generation Mobile Networks**
Erdogan K., ILGIN H. A.
2nd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Kizilcahamam, Turkey, 19 - 21 October 2018, pp.319-322
- IV. **Comparative analysis of hyperspectral dimension reduction methods Hiperspektral boyut indirgeme yöntemlerinin karşılaştırmalı analizi**
Kozal A. Ö., Teke M., ILGIN H. A.
2013 21st Signal Processing and Communications Applications Conference, SIU 2013, Haspolat, Turkey, 24 - 26 April 2013
- V. **Artificial neural networks based multiband microstrip antenna modeling**
DEMİRCİOĞLU E., SAZLI M. H., İMECİ Ş. T., ILGIN H. A., KUZU L., ALTUNKILIÇ F.
ACES 2013, 29th Annual Review of Progress in Applied Computational Electromagnetics, Monterrey, Mexico, 24 - 28 May 2013, pp.552-557
- VI. **Implementation of image reconstruction algorithm using compressive sensing in FPGA FPGA üzerinde sikiştirici algılama ile görüntü yeniden oluşturma algoritması gerçekleştirimi**
Karakuş K., ILGIN H. A.
2012 20th Signal Processing and Communications Applications Conference, SIU 2012, Fethiye, Muğla, Turkey, 18 -

20 April 2012

VII. Network delay variation model consisting of sources with Poisson's probability distribution

Voznak M., Jan R., ILGIN H. A.

15th WSEAS International Conference on Computers, Part of the 15th WSEAS CSCC Multiconference, Corfu Island, Greece, 15 - 17 July 2011, pp.240-244

VIII. Variable bit rate video transmission through RF/FSO link RF/SOO laser link üzerinden deęişken bit hızlı video iletimi

AKBULUT A., ILGIN H. A., EFE M.

2011 IEEE 19th Signal Processing and Communications Applications Conference, SIU 2011, Antalya, Turkey, 20 - 22 April 2011, pp.315-318

IX. Hybrid box-based codebook model for foreground - Background segmentation in real time videos

Gerçek zamanlı videolarda ön plan - Arka plan ayırımı için karma kutu tabanlı kod çizelgesi yöntemi

Bugday A., ILGIN H. A.

2011 IEEE 19th Signal Processing and Communications Applications Conference, SIU 2011, Antalya, Turkey, 20 - 22 April 2011, pp.94-97

Metrics

Publication: 20

Citation (WoS): 4

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