

Asst. Prof. ESRA TUNÇ GÖRMÜŞ

Personal Information

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Education Information

Doctorate, University of Bristol, Electrical And Electronic Engineering , Image And Signal Processing (Visual Information Laboratory), United Kingdom 2007 - 2013

Postgraduate, Karadeniz Technical University, Fen Bilimleri, Uzaktan Algılama Ve Fotogrametri, Turkey 2000 - 2003

Undergraduate, Karadeniz Technical University, Mühendislik Mimarlık Fakültesi, Harita Mühendisliği Bölümü, Turkey 1996 - 2000

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Improved classification of remote sensing imagery using image fusion techniques, University of Bristol, Department Of Electrical And Electronic Engineering, Image And Signal Processing, 2013

Postgraduate, Yakın resim fotogrametrisinde ağ tasarımı ve optimizasyonun incelenmesi , Karadeniz Technical University, Harita Mühendisliği Bölümü, Fotogrametri, 2003

Research Areas

Geotechnical Engineering, Remote sensing, Image Processing, Earth Observations (Remote Sensing), Computer Sciences, Artificial Intelligence, Computer Learning and Pattern Recognition, Pattern Recognition and Image Processing, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Harita Mühendisliği, 2018 - Continues

Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Harita Mühendisliği, 2015 - 2018

Courses

Synthetic Aperture Radar Images, Undergraduate, 2020 - 2021

Sayısal Görüntü İşleme, Undergraduate, 2017 - 2018

Uzaktan Algılama, Undergraduate, 2015 - 2016

Hiper Bantlı Uzaktan Algılama, Postgraduate, 2015 - 2016

Advising Theses

TUNÇ GÖRMÜŞ E., DAİMİ YANSITICI InSAR (PSInSAR) TEKNİĞİ İLE HEYELANLARIN TESPİT EDİLMESİ VE İZLENMESİ,
Postgraduate, B.Volkan(Student), 2019

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

- I. **Investigating persistent scatterer InSAR (PSInSAR) technique efficiency for landslides mapping: a case study in Artvin dam area, in Turkey**
Yazici B. V. , TUNÇ GÖRMÜŞ E.
GEOCARTO INTERNATIONAL, 2020 (Journal Indexed in SCI)
- II. **An Efficient Pan Sharpening via Texture Based Dictionary Learning and Sparse Representation**
AYAS S., TUNÇ GÖRMÜŞ E., EKİNCİ M.
IEEE JOURNAL OF SELECTED TOPICS IN APPLIED EARTH OBSERVATIONS AND REMOTE SENSING, vol.11, no.7,
pp.2448-2460, 2018 (Journal Indexed in SCI)
- III. **Dimensionality Reduction of Hyperspectral Images Using Empirical Mode Decompositions and Wavelets**
Gormus E. T. , Canagarajah N., Achim A.
IEEE JOURNAL OF SELECTED TOPICS IN APPLIED EARTH OBSERVATIONS AND REMOTE SENSING, vol.5, no.6,
pp.1821-1830, 2012 (Journal Indexed in SCI)
- IV. **Three dimensional monitoring of urban development by means of ortho-rectified aerial photographs and high-resolution satellite images**
Ayhan E., Erden O., Gormus E.
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.147, pp.413-421, 2008 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Headwall Hyperspec VNIR Kamerası İle Elde Edilen Hiperspektral Hava Fotoğrafı İçin Boyut İndirgeme Yöntemlerinin Performanslarının Analizi**
TUNÇ GÖRMÜŞ E., AKAR Ö.
Geomatik, vol.4, no.3, pp.201-214, 2019 (Other Refereed National Journals)
- II. **Göktürk-2 ve Hyperion EO-1 Uydu Görüntülerinden Rastgele Orman Sınıflandırıcısı ve Destek Vektör Makineleri ile Arazi Kullanım Haritalarının Üretilmesi**
AKAR Ö., TUNÇ GÖRMÜŞ E.
Geomatik, vol.4, no.1, pp.68-81, 2019 (Other Refereed National Journals)
- III. **Ampirik Kip Ayrışımı ve Dalgacık Dönüşümü Kullanarak Hiperspektral Görüntülerin Boyutlarının Azaltılması**
TUNÇ GÖRMÜŞ E., CANAGARAJAH N., ACHIM A.
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.17, pp.204-214, 2017 (Other Refereed National Journals)
- IV. **Uzaktan Algılanmış Görüntülerde Sınıflandırma ve Analiz**
AYHAN E., KARSLI F., TUNÇ GÖRMÜŞ E.
HARİTA DERGİSİ, no.130, pp.32-46, 2003 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **Genelleştirilmiş DLT Metodu ile Dijital Kamera Geometrik Kalibrasyonu**
KARSLI F., AYHAN E., TUNÇ GÖRMÜŞ E.
9. Türkiye Harita Bilimsel ve Teknik Kurultayı, Ankara, Turkey, pp.541
- II. **Digital Orthophoto Generation with Aerial Photos and Satellite Images and Analyzing of Factors Which Affect Accuracy**
AYHAN E., Erden O., Atay G., TUNÇ GÖRMÜŞ E.
XXIII FIG Congress, Germany, pp.1
- III. **LAND USE MAPPING OF BERGAMA TEST AREA USING HEADWALL HYPERSPEC VNIR IMAGES**
TUNÇ GÖRMÜŞ E., AKAR Ö.
INTERNATIONAL SYMPOSIUM ON APPLIED GEOINFORMATICS, 7 - 09 November 2019
- IV. **Doku Bilgisinin Hiperspektral Görüntülerin Sınıflandırılmasına Olan Etkisinin Araştırılması**
SARALIOĞLU E., TUNÇ GÖRMÜŞ E.
26. IEEE SİNYAL İŞLEME ve İLETİŞİM UYGULAMALARI KURULTAYI, İzmir, Turkey, 2 - 05 May 2018, pp.1-4
- V. **Öğrenilmiş Sözlük Üzerinden Seyrek Gösterim Aracılığıyla Yeni Bir Pan Keskinleştirme Yöntemi**
AYAS S., TUNÇ GÖRMÜŞ E., EKİNCİ M.
26. IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı, İzmir, Turkey, 2 - 05 May 2018, pp.1-4
- VI. **Investigating the Affect of Texture Information on the Classification of Hyperspectral Images**
SARALIOĞLU E., TUNÇ GÖRMÜŞ E.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- VII. **A Novel Pan Sharpening Method via Sparse Representation over Learned Dictionary**
AYAS S., TUNÇ GÖRMÜŞ E., EKİNCİ M.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- VIII. **Landslide Susceptibility Assessment of Hopa (Artvin) District Using GIS-based Frequency Ratio Method**
AKINCI H., TUNÇ GÖRMÜŞ E., YAVUZ ÖZALP A., KILIÇOĞLU C.
UCTEA International Geographical Information Systems Congress 2017, Adana, Turkey, 15 - 18 November 2017, pp.108-109
- IX. **Texture Based Classification of Hyperspectral Images with Support Vector Machines Classifier**
ŞERİFOĞLU YILMAZ Ç., TUNÇ GÖRMÜŞ E., GÜNGÖR O.
INTERNATIONAL SYMPOSIUM ON GIS APPLICATIONS IN GEOGRAPHY & GEOSCIENCES (ISGGG), Çanakkale, Turkey, 18 - 20 October 2017, pp.88
- X. **Ampirik Kip Ayırımı ve Dalgacık Dönüşümü Kullanarak Hiperspektral Görüntülerin Boyutlarının Azaltılması**
TUNÇ GÖRMÜŞ E., ACHIM A., CANAGARAJAH N.
IX. TUFUAB Teknik Sempozyumu Türkiye Ulusal Fotogrametri Ve Uzaktan Algılama Birliği, Turkey, 27 - 29 April 2017
- XI. **Exploiting texture information in diagnosing Glaucoma**
TUNÇ GÖRMÜŞ E., ACHIM A., CANAGARAJAH N.
2017 25th Signal Processing and Communications Applications Conference, 15 - 18 May 2017
- XII. **Seyrek Gösterim Tabanlı Pan Keskinleştirme**
AYAS S., TUNÇ GÖRMÜŞ E., EKİNCİ M.
25. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Antalya, Turkey, 15 - 18 May 2017, pp.1-4
- XIII. **Pan-Sharpning Based on Sparse Representation**
AYAS S., TUNÇ GÖRMÜŞ E., EKİNCİ M.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XIV. **Regional flood risk management framework for sustainable flood management: A case study in Giresun, Turkey**
KAYA Ç. M. , GÜNGÖR O., TUNÇ GÖRMÜŞ E.
PRONASEM 2016, Bükreş, Romania, 11 - 13 November 2016, pp.1-7
- XV. **Mineral Exploration with Hyperspectral Image Fusion**
Sarahoglu E., TUNÇ GÖRMÜŞ E., GÜNGÖR O.

24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.1281-1284

- XVI. **A NOVEL DECISION FUSION APPROACH TO IMPROVING CLASSIFICATION ACCURACY OF HYPERSPECTRAL IMAGES**
Gormus E., Canagarajah N., Achim A.
IEEE International Geoscience and Remote Sensing Symposium (IGARSS), Munich, Germany, 22 - 27 July 2012, pp.4158-4161
- XVII. **DIMENSIONALITY REDUCTION OF HYPERSPECTRAL IMAGES WITH WAVELET BASED EMPIRICAL MODE DECOMPOSITION**
Gormus E., Canagarajah N., Achim A.
18th IEEE International Conference on Image Processing (ICIP), Brussels, Belgium, 11 - 14 September 2011, pp.1709-1712
- XVIII. **Exploiting spatial domain and wavelet domain cumulants for fusion of SAR and optical images**
TUNÇ GÖRMÜŞ E., Canagarajah N., Achim A.
International Conference on Image Processing (ICIP), Hongkong, Hong Kong, 18 - 22 October 2010, pp.1209-1212
- XIX. **3D City Reconstruction By Different Technologies To Manage And Reorganize The Current Situation**
TUNÇ GÖRMÜŞ E., KARSLI F., AYHAN E.
XXth ISPRS Congress, Commission, İstanbul, Turkey, 12 - 23 July 2004, pp.443-448
- XX. **3D Photo – Texture Documentation of Buildings for the Heritage Conservation by Using Photogrammetry and GIS: A Case Study in KTU Campus**
KARSLI F., AYHAN E., TUNÇ GÖRMÜŞ E.
The First International Conference on Architectural Conservation Between Theory and Practice, Dubai, United Arab Emirates, 14 - 16 March 2004, pp.407-415
- XXI. **Building 3D Photo – Texture Model Integrated with GIS for Architectural Heritage Conservation**
KARSLI F., AYHAN E., TUNÇ GÖRMÜŞ E.
XIX CIPA Symposium, New Perspectives to Save the Cultural Heritage, Antalya, Turkey, 30 September - 06 October 2003, pp.1-6
- XXII. **Optimizing point networks for close-range Photogrammetry: First test results**
TUNÇ GÖRMÜŞ E., Friedrich j., KARSLI F., AYHAN E.
ISPRS Commission V Symposium Close Range Imaging – Long Range Vision, Corfu, Greece, 2 - 06 September 2002, pp.1-4

Memberships / Tasks in Scientific Organizations

COST Action CA17109, Member, 2019 - Continues
COST Action CA18107, Board Member, 2019 - Continues
COST Action CA18135, Board Member, 2019 - Continues
COST Action CA17134, Board Member, 2019 - Continues

Scientific Refereeing

Geoscience and Remote Sensing Letters, SCI Journal, March 2015
IEEE TRANSACTIONS ON IMAGE PROCESSING, SCI Journal, February 2015
IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, SCI Journal, January 2012

Edit Congress and Symposium Activities

GIS-Day 2019 (Web Conference with Lithuania-Kaunas College), Invited Speaker, Trabzon, Turkey, 2019

COST MEETING - CA17109, Attendee, Tallinn, Estonia, 2019

International symposium on Applied Geoinformatics (ISAG2019), Attendee, İstanbul, Turkey, 2019

Citations

Total Citations (WOS):41

h-index (WOS):4

Scholarships

The G.Vernon Hobson Bequest, Official Institutions of Foreign Countries, 2010 - Continues

The Sir Richard Stapley Educational Trust, Official Institutions of Foreign Countries, 2010 - Continues

Bosthworth Smith Trust, Official Institutions of Foreign Countries, 2009 - Continues

Edgar Pam Fellowship, Other International Organizations, 2008 - Continues

TUBİTAK 2214-A - Yurt Dışı Doktora Sırası Araştırma Burs Programı, TUBİTAK, 2007 - Continues