

Assoc. Prof. ALP ERTÜRK

Personal Information

Office Phone: [+90 262 303 3361](tel:+902623033361)

Email: alp.erturk@kocaeli.edu.tr

Web: <https://avesis.kocaeli.edu.tr/alp.erturk>

International Researcher IDs

ScholarID: ZF_3uRYAAAAJ

ORCID: 0000-0002-9848-5346

Publons / Web Of Science ResearcherID: F-8477-2018

ScopusID: 8534983100

Yoksis Researcher ID: 38156

Education Information

Doctorate, Kocaeli University, Fen Bilimleri Enstitüsü, Electronics and Telecommunications Engineering, Turkey 2010 - 2013

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Elektrik Ve Elektronik Mühendisliği (YI) (Tezli), Turkey 2007 - 2010

Undergraduate, Middle East Technical University, Faculty Of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 2003 - 2007

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Hiperspektral görüntüler için uzamsal yaklaşımlar, Kocaeli University, Fen Bilimleri Enstitüsü, Electronics and Telecommunications Engineering, 2013

Postgraduate, Rotation, scale and rotation invariant automatic target recognition using template matching for satellite imagery, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Electrical and Electronics Engineering, 2010

Research Areas

Remote sensing, Image and Video Processing, Artificial Intelligence, Computer Learning and Pattern Recognition

Academic Titles / Tasks

Associate Professor, Kocaeli University, Mühendislik Fakültesi, Elektronik ve Haberleşme Mühendisliği, 2022 - Continues

Assistant Professor, Kocaeli University, Mühendislik Fakültesi, Elektronik ve Haberleşme Mühendisliği, 2018 - 2022

Assistant Professor, Kocaeli University, Mühendislik Fakültesi, Elektronik ve Haberleşme Mühendisliği, 2014 - 2018

Research Assistant, Kocaeli University, Fen Bilimleri Enstitüsü, Elektronik ve Haberleşme Mühendisliği Bölümü, 2010 - 2013

Courses

Remote Sensing, Postgraduate, 2022 - 2023, 2021 - 2022

Signals & Systems, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Remote Sensing Technologies, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Introduction to Computer Vision, Undergraduate, 2019 - 2020, 2016 - 2017, 2015 - 2016

Digital Signal Processing, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Linear Algebra and Engineering Applications, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016

Computer Programming, Undergraduate, 2014 - 2015, 2013 - 2014

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Multiscale Superpixel Segmentation-Based Band Expansion for Change Detection**
Ertürk A.
REMOTE SENSING LETTERS, vol.14, no.5, pp.534-544, 2023 (SCI-Expanded)
- II. **Unmixing of pollution-associated sea-snot in the near-surface after its outbreak in the Sea of Marmara using hyperspectral PRISMA data**
Ertürk A., Erten E.
IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, vol.20, pp.1-5, 2023 (SCI-Expanded)
- III. **2021 IEEE GRSS Turkey Chapter Activities**
Erturk A., Taskin G., Ok A. O., Ustuner M., Kayabol K.
IEEE GEOSCIENCE AND REMOTE SENSING MAGAZINE, vol.10, no.1, pp.352-354, 2022 (SCI-Expanded)
- IV. **Activities of the GRSS Turkey Chapter**
Erturk A., Kaya G. T., Erten E., Kayabol K., Aptoula E.
IEEE GEOSCIENCE AND REMOTE SENSING MAGAZINE, vol.6, no.4, pp.93-95, 2018 (SCI-Expanded)
- V. **Sparse Unmixing With Dictionary Pruning for Hyperspectral Change Detection**
ERTÜRK A., Iordache M., Plaza A.
IEEE JOURNAL OF SELECTED TOPICS IN APPLIED EARTH OBSERVATIONS AND REMOTE SENSING, vol.10, no.1, pp.321-330, 2017 (SCI-Expanded)
- VI. **AUTOMATED CO-REGISTRATION OF SATELLITE IMAGES THROUGH LUMINANCE TRANSFORMATION**
Gercek D., Çeşmeci D., Güllü M. K., Ertürk A., Ertürk S.
PHOTOGRAMMETRIC RECORD, vol.31, pp.407-427, 2016 (SCI-Expanded)
- VII. **Ground-Based Panoramic Stereo Hyperspectral Imaging System With Multiband Stereo Matching**
KARACA A. C., ERTÜRK A., GÜLLÜ M. K., ERTÜRK S.
IEEE JOURNAL OF SELECTED TOPICS IN APPLIED EARTH OBSERVATIONS AND REMOTE SENSING, vol.9, no.9, pp.3926-3940, 2016 (SCI-Expanded)
- VIII. **The Second GRSS Turkey Chapter Summer School**
Erten E., Taskin G., ERTÜRK A., Tasdemir K.
IEEE GEOSCIENCE AND REMOTE SENSING MAGAZINE, vol.4, no.3, pp.76-78, 2016 (SCI-Expanded)
- IX. **Sparse Unmixing-Based Change Detection for Multitemporal Hyperspectral Images**
ERTÜRK A., Iordache M., Plaza A.
IEEE JOURNAL OF SELECTED TOPICS IN APPLIED EARTH OBSERVATIONS AND REMOTE SENSING, vol.9, no.2, pp.708-719, 2016 (SCI-Expanded)
- X. **Enhanced Unmixing-Based Hyperspectral Image Denoising Using Spatial Preprocessing**
Erturk A.
IEEE JOURNAL OF SELECTED TOPICS IN APPLIED EARTH OBSERVATIONS AND REMOTE SENSING, vol.8, no.6,

pp.2720-2727, 2015 (SCI-Expanded)

- XI. **Informative Change Detection by Unmixing for Hyperspectral Images**
Erturk A., Plaza A.
IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, vol.12, no.6, pp.1252-1256, 2015 (SCI-Expanded)
- XII. **Spatial Resolution Enhancement of Hyperspectral Images Using Unmixing and Binary Particle Swarm Optimization**
ERTÜRK A., GÜLLÜ M. K., ÇEŞMECİ D., Gercek D., ERTÜRK S.
IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, vol.11, no.12, pp.2100-2104, 2014 (SCI-Expanded)
- XIII. **Endmember Extraction Guided by Anomalies and Homogeneous Regions for Hyperspectral Images**
ERTÜRK A., ÇEŞMECİ D., GÜLLÜ M. K., Gercek D., ERTÜRK S.
IEEE JOURNAL OF SELECTED TOPICS IN APPLIED EARTH OBSERVATIONS AND REMOTE SENSING, vol.7, no.8, pp.3630-3639, 2014 (SCI-Expanded)
- XIV. **Hyperspectral image classification using empirical mode decomposition with spectral gradient enhancement**
ERTÜRK A., GÜLLÜ M. K., ERTÜRK S.
IEEE Transactions on Geoscience and Remote Sensing, vol.51, no.5, pp.2787-2798, 2013 (SCI-Expanded)
- XV. **Unsupervised segmentation of hyperspectral images using modified phase correlation**
Ertuerk A., Ertuerk S.
IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, vol.3, no.4, pp.527-531, 2006 (SCI-Expanded)
- XVI. **Two-bit transform for binary block motion estimation**
Erturk A., Erturk S.
IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY, vol.15, no.7, pp.938-946, 2005 (SCI-Expanded)

Articles Published in Other Journals

- I. **Review and Performance Comparison of Pansharpening Algorithms for RASAT Images**
Kahraman S., ERTÜRK A.
ELECTRICA, vol.18, no.1, pp.109-120, 2018 (ESCI)
- II. **Kamuflej Tespiti için Hiperspektral Görüntüleme**
Karaca A. C., Ertürk A., Güllü M. K., Ertürk S.
EMO Bilimsel Dergi, vol.3, pp.35-39, 2013 (Peer-Reviewed Journal)
- III. **Hiperspektral Görüntüleme ve Görüntü İşlemenin Bugünü Yakın Geleceği ve Mevcut Araştırma Eğilimleri**
Gerçek D., Çeşmeci D., Güllü M. K., Ertürk A., Ertürk S.
XYZ Dergi, vol.1, 2013 (Non Peer-Reviewed Journal)
- IV. **Accuracy Improvement and Evaluation Measures for Registration of Multisensor Remote Sensing Imagery**
Gerçek D., Çeşmeci D., Güllü M. K., Ertürk A., Ertürk S.
Jeodezi ve jeoinformasyon dergisi (Online), vol.1, pp.97-103, 2012 (Peer-Reviewed Journal)
- V. **Görüntü İşleme ile TFT/LCD Panellerde Kalite Kontrolü**
Taşyapı Çelebi A., Akbulut O., Ertürk A., Urhan O., Güllü M. K., Ertürk S.
Otomasyon, vol.243, 2012 (Non Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Informed NMF-Based Unmixing Method Addressing Spectral Variability for Marine Mucilage Mapping using Hyperspectral PRISMA Data**
Karoui M. S., Ertürk A., Benhalouche F. Z., Deville Y., Esi Ç.

- 2024 IEEE International Geoscience and Remote Sensing Symposium (IGARSS), Athens, Greece, 7 - 12 July 2024, pp.1-4
- II. **A SHAP-Based Analysis of Remote Sensing Indices for Marine Mucilage Detection and Mapping**
Yardımcı F., Esi Ç., Ertürk A.
2024 IEEE International Geoscience and Remote Sensing Symposium (IGARSS), Athens, Greece, 7 - 12 July 2024, pp.1-4
- III. **Nonlinear Unmixing Based Marine Mucilage Monitoring**
Esi Ç., Ertürk A., Benhalouche F. Z., Karoui M. S., Deville Y.
2024 IEEE International Geoscience and Remote Sensing Symposium (IGARSS), Athens, Greece, 7 - 12 July 2024, pp.1-4
- IV. **Generalized Linear Mixing Model Based Environmental Monitoring of Marine MucilageE**
Esi Ç., Ertürk A., Karoui M. S.
2024 IEEE Mediterranean and Middle-East Geoscience and Remote Sensing Symposium (M2GARSS), Oran, Algeria, 15 - 17 April 2024, pp.1-5
- V. **Unmixing with Spectral Variability for Marine Mucilage Analysis**
Esi Ç., Ertürk A., Karoui M. S.
13th Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing (WHISPERS), Athens, Greece, 31 October - 02 November 2023, pp.1-5
- VI. **Temporal Analysis of Marine Mucilage in the Sea of Marmara using Unmixing Based Change Detection**
Esi Ç., Ok A. Ö., Erten E., Ertürk A.
IEEE International Geoscience and Remote Sensing Symposium (IGARSS) 2023, California, United States Of America, 16 - 21 July 2023, pp.1-4
- VII. **Interpreting Hyperspectral Remote Sensing Image Classification Methods via Explainable Artificial Intelligence**
Turan D. E., Aptoula E., Ertürk A., Taşkın Kaya G.
IEEE International Geoscience and Remote Sensing Symposium (IGARSS) 2023, California, United States Of America, 16 - 21 July 2023, pp.1-4
- VIII. **Band-Based Interpretability with SHAP for Hyperspectral Classification**
Şahin I., Ertürk A., Aptoula E.
31. IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SİU 2023), İstanbul, Turkey, 5 - 08 July 2023, pp.1-4
- IX. **Assessing sea-snot accumulation using spectral mixture analysis of hyperspectral PRISMA data**
Keleşoğlu G., Ertürk A., Erten E.
IEEE International Geoscience and Remote Sensing Symposium (IGARSS) 2022, 17 - 22 July 2022, pp.1-4
- X. **Analysis of Mucilage Levels Build Up in the Sea of Marmara Based on Unsupervised Unmixing of Worldview-3 Data**
Yeşilyurt Keleşoğlu G., Ertürk A., Erten E.
IEEE Mediterranean and Middle-East Geoscience and Remote Sensing Symposium 2022 (M2GARSS 2022), 7 - 09 March 2022, pp.1-5
- XI. **Fully Unsupervised Binary Change Detection for Hyperspectral Images Using Laplacian Eigenmaps and Clustering**
Taşkın Kaya G., Ertürk A.
EEE Mediterranean and Middle-East Geoscience and Remote Sensing Symposium 2022 (M2GARSS 2022), 7 - 09 March 2022, pp.1-5
- XII. **Change Detection with Manifold Embedding for Hyperspectral Images**
Ertürk A., Taşkın Kaya G.
11th Workshop on Hyperspectral Image and Signal Processing: Evolutions in Remote Sensing (WHISPERS), Amsterdam, Netherlands, 24 - 26 March 2021, pp.1-4
- XIII. **Coupled Nonnegative Matrix Factorization with Local Neighborhood Weights for Data Fusion**
Ertürk A.
2020 Mediterranean and Middle-East Geoscience and Remote Sensing Symposium, M2GARSS 2020, Tunis, Tunisia,

9 - 11 March 2020, pp.41-44

- XIV. **Constrained Nonnegative Matrix Factorization for Hyperspectral Change Detection**
ERTÜRK A.
2020 Mediterranean and Middle-East Geoscience and Remote Sensing Symposium, M2GARSS 2020, Tunis, Tunisia, 9 - 11 March 2020, pp.49-52
- XV. **Unmixing Based Change Detection for Hyperspectral Images with Endmember Variability**
ERTÜRK A.
9th Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing (WHISPERS), 23 - 26 September 2018
- XVI. **Graph Regularized L1/2-Sparsity Constrained Non-Negative Matrix Factorization for Hyperspectral and Multispectral Image Fusion**
Kahraman S., ERTÜRK A., ERTÜRK S.
9th Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing, WHISPERS 2018, Amsterdam, Netherlands, 23 - 26 September 2018
- XVII. **Performance Analysis of Pansharpening Approaches on GOKTURK-2 Satellite Images**
Kahraman S., Ertürk A.
26. IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SİU 2018), İzmir, Turkey, 2 March - 05 May 2018
- XVIII. **Path Opening Based Road Extraction for GOKTURK-2 Images**
Yeşilyurt G., Ertürk A.
26. IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SİU 2018), İzmir, Turkey, 2 - 05 May 2018
- XIX. **BLOCK-BASED AND SEGMENTATION-BASED APPROACHES FOR COMPONENT SUBSTITUTION BASED HYPERSPECTRAL PANSHARPENING**
Kahraman S., Yesilyurt G., ERTÜRK A., ERTÜRK S.
38th IEEE International Geoscience and Remote Sensing Symposium (IGARSS), Valencia, Spain, 22 - 27 July 2018, pp.8054-8057
- XX. **ANOMALY PRESERVING CONTENT-AWARE HYPERSPECTRAL IMAGE SIZE REDUCTION**
ERTÜRK A., ERTÜRK S.
38th IEEE International Geoscience and Remote Sensing Symposium (IGARSS), Valencia, Spain, 22 - 27 July 2018, pp.6368-6371
- XXI. **A Comprehensive Review of Pansharpening Algorithms for GÖKTÜRK-2 Satellite Images**
Kahraman S., ERTÜRK A.
ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences 4th International GeoAdvances Workshop, 14 - 15 October 2017, vol.44, pp.263-270
- XXII. **Metric and Transform Performance Analysis for Hyperspectral Superpixel Segmentation**
Yeşilyurt G. N., Ertürk A., Ertürk S.
2017 25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017, pp.1-4
- XXIII. **Performance Analysis of Pansharpening Algorithms for RASAT Images**
Kahraman S., Ertürk A.
2017 25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XXIV. **SEAM CARVING FOR HYPERSPECTRAL IMAGE SIZE REDUCTION AND UNMIXING**
ERTÜRK A., ERTÜRK S.
IEEE International Geoscience & Remote Sensing Symposium, Texas, United States Of America, 23 - 28 July 2017, pp.1752-1755
- XXV. **Superpixel Based Unmixing for Enhanced Hyperspectral Denoising**
ERTÜRK A.
8th Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing (WHISPERS), Los-Angeles, Chile, 21 August 2016
- XXVI. **Sparse unmixing based denoising for hyperspectral images**
ERTÜRK A.

- 2016 IEEE International Geoscience and Remote Sensing Symposium (IGARSS), Beijing, China, 10 - 15 July 2016, pp.7006-7009
- XXVII. **Hiperspektal Görüntülerde Süperpiksel Tabanlı Karışım Giderimi ile Gürültü Giderimi**
ERTÜRK A.
24. IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SIU 2016), Zonguldak, Turkey, Turkey, 16 - 19 May 2016, pp.2189-2192
- XXVIII. **UNMIXING WITH SLIC SUPERPIXELS FOR HYPERSPECTRAL CHANGE DETECTION**
ERTÜRK A., ERTÜRK S., Plaza A.
36th IEEE International Geoscience and Remote Sensing Symposium (IGARSS), Beijing, China, 10 - 15 July 2016, pp.3370-3373
- XXIX. **Unmixing Based Denoising and Anomalous Endmember Detection**
ERTÜRK A.
IEEE International Geoscience and Remote Sensing Symposium (IGARSS) 2015, 26 - 31 July 2015
- XXX. **Sparse Unmixing for Hyperspectral Change Detection**
ERTÜRK A., Plaza A.
IEEE International Geoscience and Remote Sensing Symposium (IGARSS) 2015, 26 - 31 July 2015
- XXXI. **Local spectral gradient based gas detection in LWIR hyperspectral images**
ÇEŞMECİ D., KARACA A. C., ERTÜRK A., ERTÜRK S.
2015 23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, Turkey, 16 - 19 May 2015
- XXXII. **Hybrid change detection approach in hyperspectral images**
KARACA A. C., ÇEŞMECİ D., ERTÜRK A., ERTÜRK S.
2015 23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, Turkey, 16 - 19 May 2015
- XXXIII. **Hyperspectral Change Detection by Sparse Unmixing with Dictionary Pruning**
ERTÜRK A., IORDACHE M. D., Plaza A.
7th Workshop on Hyperspectral Image and Signal Processing (WHISPERS 2015), 2 - 05 June 2015
- XXXIV. **Hyperspectral Change Detection with Stereo Disparity Information Enhancement**
KARACA A. C., ÇEŞMECİ D., ERTÜRK A., GÜLLÜ M. K., ERTÜRK S.
IEEE 6th Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing (WHISPERS), Switzerland, 24 - 27 July 2014
- XXXV. **Stereo Hiperspektral Görüntüleme**
KARACA A. C., ERTÜRK A., GÜLLÜ M. K., ERTÜRK S.
7. Savunma Teknolojileri Kongresi (SAVTEK 2014), Ankara, Turkey, 25 - 26 June 2014
- XXXVI. **Design of a hyperspectral imaging spectrometer for visible and near infrared region applications**
ÇIRPICI U., KARACA A. C., ERTÜRK A., GÜLLÜ M. K., ERTÜRK S.
2014 22nd Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, Turkey, 23 - 25 April 2014
- XXXVII. **Hyperspectral change detection based on Multi band Census Transform**
ÇEŞMECİ D., KARACA A. C., ERTÜRK A., GÜLLÜ M. K., ERTÜRK S.
2014 22nd Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, Turkey, 23 - 25 April 2014
- XXXVIII. **A NOVEL PANORAMIC STEREO HYPERSPECTRAL IMAGING SYSTEM**
Karaca A. C., ERTÜRK A., GÜLLÜ M. K., ERTÜRK S.
6th International Symposium on Communications, Control and Signal Processing (ISCCSP), Athens, Greece, 21 - 23 May 2014, pp.145-148
- XXXIX. **HYPERSPECTRAL CHANGE DETECTION BY MULTI-BAND CENSUS TRANSFORM**
ÇEŞMECİ D., KARACA A. C., ERTÜRK A., GÜLLÜ M. K., ERTÜRK S.
IEEE Joint International Geoscience and Remote Sensing Symposium (IGARSS) / 35th Canadian Symposium on Remote Sensing, Quebec City, Canada, 13 - 18 July 2014, pp.2969-2972
- XL. **Integrating anomaly detection to spatial preprocessing for endmember extraction of hyperspectral**

images

ERTÜRK A., Cesmeci D., Gerçek D., GÜLLÜ M. K., ERTÜRK S.

2013 33rd IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2013, Melbourne, Australia, 21 - 26 July 2013, pp.1087-1090

- XLII. **Automatic Waste Sorting using Shortwave Infrared Hyperspectral Imaging System**
KARACA A. C., ERTÜRK A., GÜLLÜ M. K., ELMAS M., ERTÜRK S.
IEEE 5th Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing (WHISPERS), 25 July - 28 September 2013
- XLIII. **Anomaly and homogeneous region guided endmember extraction for hyperspectral images**
Hiperspektral görüntüler için anomali ve homojen bölge gözetken son eleman çıkarımı
ERTÜRK A., Cesmeci D., Gerçek D., GÜLLÜ M. K., ERTÜRK S.
2013 21st Signal Processing and Communications Applications Conference, SIU 2013, Haspolat, Turkey, 24 - 26 April 2013
- XLIV. **Unmixing-based fusion of hyperspectral images for classification**
Hiperspektral görüntülerin sınıflandırılmasında katışım temelli kaynaştırma
Çesmecı D., Gerçek D., GÜLLÜ M. K., ERTÜRK A., ERTÜRK S.
2013 21st Signal Processing and Communications Applications Conference, SIU 2013, Haspolat, Turkey, 24 - 26 April 2013
- XLV. **Unmixing-based fusion of hyperspectral images with high spatial resolution images**
Hiperspektral görüntüler ile yüksek çözünürlüklü görüntülerin spektral katışım temelli kaynaştırılması
Gerçek D., Cesmeci D., GÜLLÜ M. K., ERTÜRK A., ERTÜRK S.
2013 21st Signal Processing and Communications Applications Conference, SIU 2013, Haspolat, Turkey, 24 - 26 April 2013
- XLVI. **Hiperspektral Görüntüleme ile Kamufraj Tespiti**
Karaca A. C., Ertürk A., Güllü M. K., Elmas M., Ertürk S.
6. Savunma Teknolojileri Kongresi (SAVTEK 2012), Ankara, Turkey, 20 - 22 June 2012
- XLVII. **Plastic waste sorting using infrared hyperspectral imaging system**
KARACA A. C., ERTÜRK A., GÜLLÜ M. K., ERTÜRK S.
2013 21st Signal Processing and Communications Applications Conference (SIU), Haspolat, Turkey, 24 - 26 April 2013
- XLVIII. **Unmixing-based Fusion of Hyperspectral Images with High Spatial Resolution Images**
Gerçek D., Cesmeci D., GÜLLÜ M. K., ERTÜRK A., ERTÜRK S.
21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013
- XLIX. **Anomaly and Homogeneous Region Guided Endmember Extraction for Hyperspectral Images**
ERTÜRK A., Cesmeci D., Gerçek D., GÜLLÜ M. K., ERTÜRK S.
21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013
- L. **Unmixing-based Fusion of Hyperspectral Images for Classification**
Cesmeci D., Gerçek D., GÜLLÜ M. K., ERTÜRK A., ERTÜRK S.
21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013
- L. **Hyperspectral image classification with spectral gradient enhancement for empirical mode decomposition**
ERTÜRK A., GÜLLÜ M. K., ERTÜRK S.
2012 32nd IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2012, Munich, Germany, 22 - 27 July 2012, pp.4162-4165
- LI. **An automated fine registration of multisensor remote sensing imagery**
Gerçek D., Çesmecı D., GÜLLÜ M. K., ERTÜRK A., ERTÜRK S.
2012 32nd IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2012, Munich, Germany, 22 - 27 July 2012, pp.1361-1364
- LII. **Analysis of evidence in forensic documents using hyperspectral imaging system**
KARACA A. C., ERTÜRK A., GÜLLÜ M. K., ELMAS M., ERTÜRK S.
2012 20th Signal Processing and Communications Applications Conference (SIU), Mugla, Turkey, Turkey, 18 - 20

April 2012

- LIII. **An automated approach for registration of multisensor/multi-resolution imagery Farkli alicilardan elde edilen farkli çözünürlüklü uydu görüntülerinin çakıştırılmasında otomatik bir yaklaşım**
Gerçek D., Çeşmeci D., GÜLLÜ M. K., ERTÜRK A., ERTÜRK S.
2012 20th Signal Processing and Communications Applications Conference, SIU 2012, Fethiye, Mugla, Turkey, 18 - 20 April 2012
- LIV. **Empirical mode decomposition based approach with spectral enhancement for hyperspectral image classification Hiperspektral görüntü sınıflandırması için spektral iyileştirmeli ampirik kip ayrıştırması tabanlı yaklaşım**
ERTÜRK A., GÜLLÜ M. K., ERTÜRK S.
2012 20th Signal Processing and Communications Applications Conference, SIU 2012, Fethiye, Mugla, Turkey, 18 - 20 April 2012
- LV. **Image registration with luminance transform operation Parlaklık dönüşüm işlemi ile imge çakıştırma**
Çeşmeci D., Gerçek D., GÜLLÜ M. K., ERTÜRK A., ERTÜRK S.
2012 20th Signal Processing and Communications Applications Conference, SIU 2012, Fethiye, Mugla, Turkey, 18 - 20 April 2012
- LVI. **COMPARATIVE EVALUATION OF VECTOR MACHINE BASED HYPERSPECTRAL CLASSIFICATION METHODS**
KARACA A. C., ERTÜRK A., GÜLLÜ M. K., ERTÜRK S.
IEEE International Geoscience and Remote Sensing Symposium (IGARSS), Munich, Germany, 22 - 27 July 2012, pp.4970-4973
- LVII. **Rotation, scale and translation invariant automatic target recognition based on Fourier-Mellin transform and bispectrum for satellite imagery Uydu görüntüleri için Fourier-Mellin dönüşümü ve bispektrum tabanlı dönme, ölçekleme, öteleme değişmezlikli otomatik hedef tanıma**
Ertürk A., ALATAN A. A., ÇİLOĞLU T.
18th IEEE Signal Processing and Communications Applications Conference, SIU 2010, Diyarbakır, Turkey, 22 - 24 April 2010, pp.550-553
- LVIII. **Hybrid iterative TDOA emitter localization using two different techniques Melez özinyeli iki teknikli varış zaman farkına dayalı verici konum tespiti**
Ertürk A., Bayri A.
2008 IEEE 16th Signal Processing, Communication and Applications Conference, SIU, Aydın, Turkey, 20 - 22 April 2008

Supported Projects

Ertürk A., TUBITAK Project, Hiperspektral Görüntülerde Kaynaştırma ile Uzamsal Çözünürlük Artırımı için Karışım Giderimi Temelli Yaklaşımlar, 2016 - 2018

Ertürk A., TUBITAK Project, HIPSTER Hiperspektral panoramik stereo temelli görüntüleme sistemi, 2013 - 2014

Ertürk A., Çelebi A., TUBITAK Project, Electro Optic Range Finder, 2012 - 2013

Güllü M. K., Gerçek Kurt D., TUBITAK Project, Hiperspektral görüntülerde piksel altı yaklaşımlarla sınıflandırma başarımının artırılması (1001 - Bilimsel ve Teknolojik Araştırma Projesi), 2011 - 2013

Çiloğlu T., TUBITAK Project, Konuşma Bölütlemeye Görüntü Bilgisinin Kullanımı, 2007 - 2009

Activities in Scientific Journals

IEEE Journal Of Selected Topics In Applied Earth Observations And Remote Sensing, Special Issue Editor, 2019 - 2020

Memberships / Tasks in Scientific Organizations

IEEE GRSS Turkey Chapter, Chairman, 2023 - Continues, Turkey
The Planetary Society, Member, 2016 - Continues, United States Of America
IEEE Geoscience and Remote Sensing Society, Member, 2012 - Continues, United States Of America
IEEE, Member, 2010 - Continues, United States Of America
IEEE GRSS Turkey Chapter, Vice President, 2016 - 2022, Turkey

Tasks In Event Organizations

Ertürk A., IEEE Mediterranean and Middle-East Geoscience and Remote Sensing Symposium (M2GARSS) 2024, Scientific Congress, Algeria, Nisan 2024
Ertürk A., Taşkın Kaya G., Erten E., Aptoula E., Üstüner M., IEEE GRSS Türkiye Bölümü Lisansüstü Tez Yarışması - 2023, Social Activities, Turkey, Aralık 2023
Taşkın Kaya G., Ertürk A., Kayabol K., Ok A. Ö., Üstüner M., Sakarya U., IEEE GRSS Türkiye Bölümü Lisansüstü Tez Yarışması - 2022, Social Activities, Ankara, Turkey, Aralık 2022
Taşkın Kaya G., Ertürk A., Kayabol K., Ok A. Ö., Üstüner M., Leloğlu U. M., IEEE GRSS Turkey Chapter Young Professionals Day, Workshop Organization, Ankara, Turkey, Aralık 2022
Ertürk A., Melgani F., Demir B., Kammoun H., Kamaşak M. E., Kayabol K., Karoui M. S., Üstüner M., Taşkın Kaya G., Erten E., et al., IEEE Mediterranean and Middle-East Geoscience and Remote Sensing Symposium (M2GARSS) 2022, Scientific Congress, Turkey, Mart 2022
Taşkın Kaya G., Ertürk A., Kayabol K., Ok A. Ö., IEEE GRSS Turkey Chapter Graduate Thesis Competition, Social Activities, Turkey, Aralık 2021
Taşkın Kaya G., Ertürk A., Kayabol K., Ok A. Ö., Üstüner M., Bentum M., Frey O., Kazangirler C. B., Earth Observation Applications Summer School 2021 (UYGU 2021), Science / Art Camp or Summer School Organization, Turkey, Eylül 2021
Taşkın Kaya G., Ertürk A., Kayabol K., Ok A. Ö., IEEE GRSS Webinar - Blind Source Separation Methods and Application to Processing Remote Sensing Data (Dr. Moussa Sofiane Karoui), Scientific Congress, United States Of America, Mayıs 2021
Taşkın Kaya G., Ertürk A., Kayabol K., Ok A. Ö., IEEE GRSS Webinar - Matematical Morphology in Geoscience, Remote Sensing and Geospatial Data Science: An Overview (Dr. B. S. Daya Sagar), Scientific Congress, United States Of America, Aralık 2020
Taşkın Kaya G., Ertürk A., Kayabol K., Ok A. Ö., IEEE GRSS Webinar - Alfalfa Yield Prediction Using UAV-Based Hyperspectral Imagery and Ensemble Learning (Dr. Zhou Zhang), Scientific Congress, United States Of America, Kasım 2020
Demir B., Ertürk A., Uzaktan Algılama için Sinyal ve Görüntü İşleme Özel Oturumu, Scientific Congress, Turkey, Ekim 2020
Ertürk A., IEEE Mediterranean and Middle-East Geoscience and Remote Sensing Symposium 2020, Scientific Congress, Tunisia, Mart 2020
Ertürk A., Joint Urban Remote Sensing Event 2019, Scientific Congress, France, Mayıs 2019
Erten E., Taşkın Kaya G., Ertürk A., Kayabol K., Aptoula E., Dalla Mura M., Hajnsek I., Uydu Yer Gözlem Uygulamaları (UYGU) Yaz Okulu 2018, Science / Art Camp or Summer School Organization, Kocaeli, Turkey, Haziran 2018
Demir B., Ertürk A., Uzaktan Algılama için Sinyal ve Görüntü İşleme Çalıştayı 2018, Workshop Organization, İzmir, Turkey, Mayıs 2018
Demir B., Ertürk A., Uzaktan Algılama için Sinyal ve Görüntü İşleme Çalıştayı 2017, Workshop Organization, Antalya, Turkey, Mayıs 2017
Erten E., Taşkın Kaya G., Ertürk A., Taşdemir K., Bilgi S., Çelik B., Uydu Yer Gözlem Uygulamaları (UYGU) Yaz Okulu 2016, Science / Art Camp or Summer School Organization, İstanbul, Turkey, Haziran 2016

Metrics

Publication: 83
Citation (WoS): 440
Citation (Scopus): 581

H-Index (WoS): 9

H-Index (Scopus): 10

Congress and Symposium Activities

Coğrafi Bilgi Sistemleri ve Görüntü İşleme Teknolojileri Çalıştayı, Invited Speaker, Ankara, Turkey, 2018

Invited Talks

Coğrafi Bilgi Sistemleri ve Görüntü İşleme Teknolojileri Çalıştayı, Workshop, İstanbul Teknik Üniversitesi, Turkey, September 2018

Scholarships

2219-Yurt Dışı Doktora Sonrası Araştırma Burs Programı, TÜBİTAK, 2014 - 2015

Awards

Keleşoğlu G., Erten E., Ertürk A., Best Poster Papers Award - Third Place, Ieee Mediterranean And Middle-East Geoscience And Remote Sensing Symposium (M2garss) 2022, March 2022

Ertürk A., Best Oral Papers Award - Third Place, Mediterranean And Middle-East Geoscience And Remote Sensing Symposium M2garss 2020, March 2020

Kahraman S., Ertürk A., IEEE GRSS Turkey Chapter Best Student Paper Award, 26. Ieee Sinyal İşleme Ve İletişim Uygulamaları Kurultayı (Siu2018) Uzaktan Algılama İçin Sinyal Ve Görüntü İşleme Çalıştayı, March 2018

Entrepreneurship Activities

Limited, Palsis Elektronik Optik, 12 April 2011, Co-Founder

Non Academic Experience

IEEE GRSS Turkey Chapter

Palsis Elektronik Optik Mühendislik ve Danışmanlık Hizm. San. ve Tic. Ltd. Şti.