

## Assoc. Prof. Ali Can KARACA

### Personal Information

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No:215 Esenler-İstanbul

### International Researcher IDs

ScholarID: KVU506gAAAAJ

ORCID: 0000-0002-6835-7634

Publons / Web Of Science ResearcherID: B-6629-2016

ScopusID: 55292760600

Yoksis Researcher ID: 141343

### Education Information

Doctorate, Kocaeli University, Mühendislik Fakültesi, Elektronik Ve Haberleşme Mühendisliği, Turkey 2014 - 2019

Postgraduate, Kocaeli University, Mühendislik Fakültesi, Elektronik Ve Haberleşme Mühendisliği, Turkey 2011 - 2014

Undergraduate Double Major, Kocaeli University, Mühendislik Fakültesi, Elektronik Ve Haberleşme Mühendisliği, Turkey  
2007 - 2011

Undergraduate, Kocaeli University, Mühendislik Fakültesi, Elektrik Mühendisliği, Turkey 2006 - 2010

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Prediction based approaches for lossless compression of hyperspectral images, Kocaeli University,  
Mühendislik Fakültesi, Elektronik Ve Haberleşme Mühendisliği, 2019

Postgraduate, Depth extraction using stereo hyperspectral imaging system, Kocaeli University, Mühendislik Fakültesi,  
Elektronik Ve Haberleşme Mühendisliği, 2014

### Research Areas

Remote sensing, Image Processing, Lidar, Image and Video Processing, Pattern Recognition and Analysis, Signal  
Processing Theory and Methods, Computer Vision, Artificial Intelligence, Computer Learning and Pattern Recognition

### Academic Titles / Tasks

Associate Professor, Yıldız Technical University, Faculty Of Electrical & Electronics, Computer Engineering, 2023 -  
Continues

Assistant Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering, 2021 - 2023  
Assistant Professor, Bandirma Onyedi Eylul University, Faculty Of Engineering And Natural Sciences, Department Of Electronics And Communication Engineering, 2020 - 2021  
Research Assistant, Kocaeli University, Mühendislik Fakültesi, Elektronik Ve Haberleşme Mühendisliği, 2014 - 2020

## Academic and Administrative Experience

Deputy Head of Department, Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering, 2023 - 2024

Deputy Head of Department, Bandirma Onyedi Eylul University, Faculty Of Engineering And Natural Sciences, Department Of Electronics And Communication Engineering, 2020 - 2021

## Courses

Deep Learning and Artificial Neural Networks, Doctorate, 2024 - 2025

Makine Öğrenmesine Giriş, Postgraduate, 2023 - 2024, 2022 - 2023

Computer Organization, Undergraduate, 2023 - 2024

Embedded Systems, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022

Probability, Random Variables and Stochastic Processes, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

Bilgisayar Donanımı, Undergraduate, 2022 - 2023, 2021 - 2022

İleri Optimizasyon, Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022

Sayısal İşaret İşleme, Undergraduate, 2022 - 2023, 2021 - 2022

Pattern Recognition, Doctorate, 2020 - 2021

Advanced Remote Sensing, Postgraduate, 2020 - 2021

Numerical Analysis, Undergraduate, 2020 - 2021

Signals and Systems for Computer Engineers, Undergraduate, 2021 - 2022

Digital Signal Processing, Undergraduate, 2020 - 2021

Akıllı Ulaşım Sistemlerinde Görüntü İşleme, Postgraduate, 2020 - 2021

İşaretler ve Sistemler 1, Undergraduate, 2020 - 2021

Gerçek Zamanlı Görü ve Kontrol, Doctorate, 2020 - 2021

Linear Algebra, Undergraduate, 2020 - 2021

Advanced Remote Sensing, Postgraduate, 2020 - 2021

Circuits and Systems Theory, Undergraduate, 2019 - 2020

## Advising Theses

Karaca A. C., FIXEIN: A mobile and modular eye tracking system, Postgraduate, Ş.İNANIR(Student), 2024

Karaca A. C., Interactive analysis and data visualization for high dimensional datasets, Postgraduate,

P.SALMANIAN(Student), 2024

Karaca A. C., HYPERSPECTRAL IMAGE CLASSIFICATION USING AN ACTIVE DEEP LEARNING FRAMEWORK INCLUDING EDGE PRESERVING FILTERS, Postgraduate, Z.DHEYAA(Student), 2024

Öztop H. M., Karaca A. C., Classification and quantification of beet & cane sugar by using optical spectroscopy and chemometrics, Postgraduate, H.ERİKLİOĞLU(Student), 2022

## Jury Memberships

Post Graduate, Post Graduate, Kocaeli Üniversitesi, June, 2022

Doctorate, Doctorate, Yıldız Teknik Üniversitesi, June, 2022

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

- I. **The exploration of the transfer learning technique for Globotruncanita genus against the limited low-cost light microscope images**  
Ozer I., KARACA A. C., KAYA ÖZER C., Gorur K., Kocak I., Cetin O.  
Signal, Image and Video Processing, vol.18, no.8-9, pp.6363-6377, 2024 (SCI-Expanded)
- II. **Towards investigation of transfer learning framework for Globotruncanita genus and Globotruncana genus microfossils in Genus-Level and Species-Level prediction**  
Ozer I., Kocak I., Cetin O., Can Karaca A. C., KAYA ÖZER C., Gorur K.  
Engineering Science and Technology, an International Journal, vol.48, 2023 (SCI-Expanded)
- III. **Species-level microfossil identification for globotruncana genus using hybrid deep learning algorithms from the scratch via a low-cost light microscope imaging**  
Ozer I., KAYA ÖZER C., KARACA A. C., Gorur K., Kocak I., Cetin O.  
MULTIMEDIA TOOLS AND APPLICATIONS, vol.82, no.9, pp.13689-13718, 2023 (SCI-Expanded)
- IV. **Species-Level Microfossil Prediction for Globotruncana genus Using Machine Learning Models**  
Gorur K., Ozer C. K., Ozer I., KARACA A. C., Cetin O., Kocak I.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.48, no.2, pp.1315-1332, 2023 (SCI-Expanded)
- V. **MultiTempGAN: Multitemporal multispectral image compression framework using generative adversarial networks**  
KARACA A. C., Kara O., Güllü M. K.  
JOURNAL OF VISUAL COMMUNICATION AND IMAGE REPRESENTATION, vol.81, 2021 (SCI-Expanded)
- VI. **MultiTempLSTM: prediction and compression of multitemporal hyperspectral images using LSTM networks**  
KARACA A. C., Gullu M. K.  
JOURNAL OF APPLIED REMOTE SENSING, vol.15, no.4, 2021 (SCI-Expanded)
- VII. **Domain Transform Filter and Spatial-Aware Collaborative Representation for Hyperspectral Image Classification Using Few Labeled Samples**  
KARACA A. C.  
IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, vol.18, no.7, pp.1264-1268, 2021 (SCI-Expanded)
- VIII. **Spatial aware probabilistic multi-kernel collaborative representation for hyperspectral image classification using few labelled samples**  
KARACA A. C.  
INTERNATIONAL JOURNAL OF REMOTE SENSING, vol.42, no.3, pp.839-864, 2021 (SCI-Expanded)
- IX. **Superpixel based compression of hyperspectral image with modified dictionary and sparse representation**  
Ertem A., KARACA A. C., URHAN O., Gullu M. K.  
INTERNATIONAL JOURNAL OF REMOTE SENSING, vol.41, no.16, pp.6307-6324, 2020 (SCI-Expanded)
- X. **Superpixel based recursive least-squares method for lossless compression of hyperspectral images**  
KARACA A. C., Gullu M. K.  
MULTIDIMENSIONAL SYSTEMS AND SIGNAL PROCESSING, vol.30, no.2, pp.903-919, 2019 (SCI-Expanded)
- XI. **Detection of forest fire in Menderes district using a superpixel segmentation based search method Menderes ilçesindeki orman yangininin süperpiksel bölütleme temelli arama yöntemiyle tespiti**  
KARACA A. C., Güllü M. K.  
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.34, no.2, pp.1061-1076, 2019 (SCI-Expanded)
- XII. **Lossless hyperspectral image compression using bimodal conventional recursive least-squares**  
KARACA A. C., Gullu M. K.

REMOTE SENSING LETTERS, vol.9, no.1, pp.31-40, 2018 (SCI-Expanded)

- XIII. **Ground-Based Panoramic Stereo Hyperspectral Imaging System With Multiband Stereo Matching**  
KARACA A. C., ERTÜRK A., GULLU 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)

## Articles Published in Other Journals

- I. **Hyperspectral Image Classification Using Improved Active Deep Learning Framework Including Edge Preserving Filters**  
Dheyaa Al-Sammarraie Z., Karaca A. C.  
Türk Uzaktan Algılama ve CBS Dergisi, vol.5, no.1, pp.54-68, 2024 (Peer-Reviewed Journal)
- II. **Akıllı Şehirlerde Ulaşım Uygulamaları**  
Küçükmanisa A., Karaca A. C.  
Şura Akademi Kent Araştırmaları , no.2, pp.73-82, 2023 (Peer-Reviewed Journal)
- III. **Robust Hyperspectral Feature Extraction Method Using Edge Preserving Filters and Intrinsic Image Decomposition**  
KARACA A. C.  
Havacılık ve Uzay Teknolojileri Dergisi, vol.13, no.2, pp.179-188, 2020 (Peer-Reviewed Journal)
- IV. **Compression of hyperspectral images using automatic adaptive luminance transform and 3D-DCT method**  
Can E., KARACA A. C., URHAN O., GULLU M. K.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.26, no.5, pp.868-883, 2020 (ESCI)
- V. **Kamuflej Tespiti için Hiperspektral Görüntüleme**  
KARACA A. C., ERTÜRK A., GÜLLÜ M. K., ELMAS M., ERTÜRK S.  
EMO Bilimsel Dergi, vol.3, no.5, pp.35-39, 2013 (Peer-Reviewed Journal)
- VI. **Elektronik Tansiyon Ölçüm Sistemi**  
KARACA A. C., yakut m.  
Otomasyon Dergisi, 2011 (Non Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Weighted XGBoost Based Active Learning Framework for Fraud Detection with Using Small Number of Samples from Imbalanced Dataset**  
Karaca A. C.  
3rd International Conference on Advanced Engineering, Technology and Applications, 25 May 2024, pp.674-686
- II. **DimVis: Interpreting Visual Clusters in Dimensionality Reduction With Explainable Boosting Machine**  
Salmanian P., Karaca A. C.  
MLVis: Machine Learning Methods in Visualisation for Big Data (2024), Aalborg, Denmark, 27 May - 27 June 2024, pp.1
- III. **Modified Active Learning Framework for Hyperspectral Image Classification with Convolutions Neural Networks**  
AL-SAMMARRAIE Z. D., KARACA A. C.  
2023 7th International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Turkey, 26 October 2023
- IV. **Robust and Fast Ship Detection In SAR Images With Complex Backgrounds Based on EfficientDet Model**  
KARACA A. C.

IEEE 5th International Symposium on Multidisciplinary Studies and Innovative Technologies, Turkey, 23 October 2021

- V. **Use of Hyperspectral Imaging to Determine Protein Content in Sugar Beet Leaves**  
ERİKLİOĞLU H., KARACA A. C., ÖZTOP H. M.  
1st sensorFINT International Workshop: Smart Spectral Sensors for Agri-Food Quality and Process Control, Portugal, 30 September 2021
- VI. **Efficient Resolution Enhancement of JPEG2000 Compressed Multispectral Images Using Deep Super-resolution Methods**  
KARACA A. C., Uçurmak İ., GÜLLÜ M. K.  
IEEE International Conference on INnovations in Intelligent SysTems and Applications (INISTA), Turkey, 25 - 27 August 2021
- VII. **Change Detection in Hyperspectral Images using Long Time Short Memory Based Spectral Signature Regression**  
KARACA A. C.  
International Symposium of Scientific Research and Innovation Studies (ISSRIS21), Turkey, 22 - 25 February 2021
- VIII. **Reduction of JPEG2000 Compression Artifacts using Very Deep Super Resolution Approach for Multitemporal Multispectral Images Çok Zamanlı Multispektral Görüntülerde JPEG2000 Sıkıştırma Bozunumlarının Çok Derin Super Cozunurluk Yaklaşımı ile İyileştirilmesi**  
Kara O., Uçurmak I., KARACA A. C., Gullu M. K.  
28th Signal Processing and Communications Applications Conference, SIU 2020, Gaziantep, Turkey, 5 - 07 October 2020
- IX. **Lossy Compression of Hyperspectral Images Using Wavelet Transform, Principal Component Analysis and Tensor Decomposition**  
CAN E., KARACA A. C., URHAN O., GÜLLÜ M. K.  
The 10th International Conference on Image Processing, Wavelet and Applications (IWW2019), Kocaeli, Turkey, 18 - 20 October 2019
- X. **Detection of Burnt Regions in Forest Fires for Multispectral Images using Wavelet Transform and Superpixel Segmentation**  
KARACA A. C., GÜLLÜ M. K.  
The 10th International Conference on Image Processing, Wavelet and Applications (IWW2019), Kocaeli, Turkey, 18 - 20 October 2019
- XI. **Turkish sign language recognition using kinect skeleton and convolutional neural network Kinect İskelet ve Evrimsel Sinir Ağları ile Türkçe İşaret Dili Tanıma**  
Unutmaz B., KARACA A. C., Gullu M. K.  
27th Signal Processing and Communications Applications Conference, SIU 2019, Sivas, Turkey, 24 - 26 April 2019
- XII. **Compression of hyperspectral images using superpixel based and error-corrected sparse representation Hiperspektral görüntülerin süperpiksel temelli ve hata düzeltmeli seyrek gösterimle sıkıştırılması**  
Ertem A., KARACA A. C., Gullu M. K.  
27th Signal Processing and Communications Applications Conference, SIU 2019, Sivas, Turkey, 24 - 26 April 2019
- XIII. **Compression of hyperspectral images using adaptive luminance transform Hiperspektral görüntülerin uyarlamalı işiklilik dönüşümü ile sıkıştırılması**  
Can E., KARACA A. C., Danisman M., URHAN O., Gullu M. K.  
26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Turkey, 2 - 05 May 2018, pp.1-4
- XIV. **Effects of hyperspectral image compression methods on classification Hiperspektral görüntü sıkıştırma yöntemlerinin sınıflandırma üzerindeki etkileri**  
Danisman M., KARACA A. C., Can E., URHAN O., Gullu M. K.  
26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Turkey, 2 - 05 May 2018, pp.1-4
- XV. **Prediction and compression of multi-temporal hyperspectral images using luminance transform**

**Farkli zamanlarda alınan hiperspektral görüntülerin işiklilik dönüşümü ile tahmini ve sıkıştırılması**

KARACA A. C., Gullu M. K.

26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Turkey, 2 - 05 May 2018, pp.1-4

- XVI. **Target Preserving Hyperspectral Image Compression Using Weighted PCA and JPEG2000**  
KARACA A. C., Gullu M. K.  
8th International Conference on Image and Signal Processing (ICISP), Cherbourg, France, 2 - 04 July 2018, vol.10884, pp.508-516
- XVII. **COMPRESSION OF HYPERSPECTRAL IMAGES USING LUMINANCE TRANSFORM AND 3D-DCT**  
Can E., KARACA A. C., Danisman M., URHAN O., Gullu M. K.  
38th IEEE International Geoscience and Remote Sensing Symposium (IGARSS), Valencia, Spain, 22 - 27 July 2018, pp.5073-5076
- XVIII. **A DETAILED PERFORMANCE ANALYSIS OF HYPERSPECTRAL IMAGE COMPRESSION TECHNIQUES**  
Danisman M., KARACA A. C., Can E., URHAN O., Gullu M. K.  
38th IEEE International Geoscience and Remote Sensing Symposium (IGARSS), Valencia, Spain, 22 - 27 July 2018, pp.5069-5072
- XIX. **A fast approach for adaptive conventional recursive least-squares predictor in lossless compression of hyperspectral images** **Hiperspektral Görüntülerin Kayıpsız Sıkıştırmasında Adaptif Geleneksel Yinelemeli En Küçük Kareli Hata Kestiricisi için Hızlı Bir Yaklaşım**  
KARACA A. C., Gullu M. K.  
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 May 2017
- XX. **The use of low-bit depth approaches for band ordering in hyperspectral image compression** **Hiperspektral Görüntü Sıkıştırma Bant Sıralama için Düşük Bit-Derinliği Yaklaşımlarının Kullanımı**  
KARACA A. C., Gullu M. K.  
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 May 2017
- XXI. **Lossless Compression of Ultraspectral Sounder Data Using Recursive Least Squares**  
KARACA A. C., Gullu M. K.  
8th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Turkey, 19 - 22 June 2017, pp.109-112
- XXII. **Comparison of Traditional and Recent Unsupervised Band Selection Approaches in Hyperspectral Images**  
KARACA A. C., Gullu M. K.  
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.785-788
- XXIII. **Local Spectral Gradient Based Gas Detection in LWIR Hyperspectral Images**  
Cesmeci D., KARACA A. C., ERTÜRK A., ERTÜRK S.  
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.2166-2169
- XXIV. **Hybrid Change Detection Approach in Hyperspectral Images**  
KARACA A. C., Cesmeci D., ERTÜRK A., ERTÜRK S.  
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.2226-2229
- XXV. **Stereo Hiperspektral Görüntüleme Sistemi**  
KARACA A. C., ÇEŞMECİ D., ERTÜRK A., GÜLLÜ M. K., ERTÜRK S.  
FOTONİK 2014: 16. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, Turkey, 05 September 2014
- XXVI. **Hyperspectral change detection with stereo disparity information enhancement**  
KARACA A. C., Çeşmeci D., ERTÜRK A., Güllü M. K., ERTÜRK S.  
6th Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing, WHISPERS 2014, Lausanne, Switzerland, 24 - 27 June 2014
- XXVII. **Stereo Hiperspektral Görüntüleme**  
KARACA A. C., ERTÜRK A., GÜLLÜ M. K., ERTÜRK S.

7. SavunmaTehnolojileri Kongresi (SAVTEK 2014), Ankara, Turkey, 25 - 26 June 2014
- XXVIII. **Hyperspectral Change Detection Based on Multi-Band Census Transform**  
Cesmeci D., KARACA A. C., ERTÜRK A., Gullu M. K., ERTÜRK S.  
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.1910-1913
- XXIX. **HYPERSPECTRAL CHANGE DETECTION BY MULTI-BAND CENSUS TRANSFORM**  
Cesmeci D., KARACA A. C., ERTÜRK A., Gullu 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
- XXX. **A NOVEL PANORAMIC STEREO HYPERSPECTRAL IMAGING SYSTEM**  
KARACA A. C., ERTÜRK A., Gullu M. K., ERTÜRK S.  
6th International Symposium on Communications, Control and Signal Processing (ISCCSP), Athens, Greece, 21 - 23 May 2014, pp.145-148
- XXXI. **DESIGN OF A HYPERSPECTRAL IMAGING SPECTROMETER FOR VISIBLE AND NEAR INFRARED REGION APPLICATIONS**  
Cirpici U., KARACA A. C., ERTÜRK A., Gullu M. K., ERTÜRK S.  
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.1407-1410
- XXXII. **Hiperspektral Görüntüleme Spektrometresinin Optik Tasarımı**  
ÇIRPICI U., KARACA A. C., ERTÜRK A., ERTÜRK S.  
FOTONİK 2013: 15. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, Turkey, 06 September 2013
- XXXIII. **Automatic waste sorting using shortwave infrared hyperspectral imaging system**  
KARACA A. C., ERTÜRK A., Gullu M. K., Elmas M., ERTÜRK S.  
5th Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing, WHISPERS 2013, Florida, United States Of America, 26 - 28 June 2013
- XXXIV. **Plastic Waste Sorting Using Infrared Hyperspectral Imaging System**  
KARACA A. C., ERTÜRK A., Gullu M. K., Elmas M., ERTÜRK S.  
21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013
- XXXV. **Hiperspektral Görüntüleme Sistemi Ve Uygulamaları**  
KARACA A. C., ERTÜRK A., GÜLLÜ M. K., ERTÜRK S.  
FOTONİK 2012: 14. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, Turkey, 14 September 2012
- XXXVI. **Analysis of evidence in forensic documents using hyperspectral imaging system Hiperspektral görüntüleme sistemi ile adli belgelerdeki bulgularin analizi**  
KARACA A. C., ERTÜRK A., Güllü M. K., Elmas M., ERTÜRK S.  
2012 20th Signal Processing and Communications Applications Conference, SIU 2012, Fethiye, Muğla, Turkey, 18 - 20 April 2012
- XXXVII. **Hiperspektral Görüntüleme ile Kamuflej Tespiti**  
KARACA A. C., ERTÜRK A., GÜLLÜ M. K., ELMAS M., ERTÜRK S.  
6. SavunmaTehnolojileri Kongresi (SAVTEK 2012), Ankara, Turkey, 20 - 22 June 2012
- XXXVIII. **COMPARATIVE EVALUATION OF VECTOR MACHINE BASED HYPERSPECTRAL CLASSIFICATION METHODS**  
KARACA A. C., ERTÜRK A., Gullu M. K., ERTÜRK S.  
IEEE International Geoscience and Remote Sensing Symposium (IGARSS), Munich, Germany, 22 - 27 July 2012, pp.4970-4973

## Supported Projects

Karaca A. C., Amasyalı M. F., TUBITAK Project, Sahne Değişiminden Rapor Üretimine: Uzaktan Algılama Görüntü Çiftlerinden Değişim Özeti Oluşturma, 2023 - 2026

Karaca A. C., Project Supported by Private Organizations in Other Countries, Sound Source Localization and Speech

Translation for Earthquake Victims, 2023 - 2024

Karaca A. C., Öztöp H. M., H2020 Project, SuChAQuality-Alternative Quality and Authenticity Methods for Sugar and Confectionery Industry, 2020 - 2024

Karaca A. C., Güllü M. K., TUBITAK Project, Farklı Zamanlarda Alınan Uydu Görüntülerinin Derin Öğrenme Temelli Sıkıştırılması, 2020 - 2021

Güllü M. K., Urhan O., TUBITAK Project, Hiperspektral Görüntülerin Alt-Örnekleme, Katışım Analizi Ve Bölütleme Temelli Yaklaşımlarla Sıkıştırılması, 2017 - 2019

Karaca A. C., Ertürk S., Ertürk A., Project Supported by Other Official Institutions, İleri Görünteleme Teknolojileri (İGT) - TUYGUN Projesi-Değişim Tespiti Algoritma Geliştirilmesi, 2014 - 2016

Karaca A. C., Ertürk A., TUBITAK Project, HIPSTER: Hiperspektral Panoramik Stereo Temelli Görüntüleme Sistemi, 2013 - 2014

## Scientific Refereeing

MULTIDIMENSIONAL SYSTEMS AND SIGNAL PROCESSING, SCI Journal, November 2021

JOURNAL OF APPLIED REMOTE SENSING, SCI Journal, November 2021

IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, SCI Journal, November 2021

IEEE TRANSACTIONS ON IMAGE PROCESSING, SCI Journal, November 2021

IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, SCI Journal, September 2021

IEEE GEOSCIENCE AND REMOTE SENSING MAGAZİNE, SCI Journal, August 2021

SIGNAL IMAGE AND VIDEO PROCESSING, SCI Journal, August 2021

MULTIDIMENSIONAL SYSTEMS AND SIGNAL PROCESSING, SCI Journal, July 2021

JOURNAL OF APPLIED REMOTE SENSING, SCI Journal, July 2021

IEEE ACCESS, SCI Journal, July 2021

TUBITAK Project, 2209-B - Sanayiye Yönelik Lisans Araştırma Projeleri Destekleme Programı, Bandırma Onyedil Eylül University, Turkey, December 2020

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Bandırma Onyedil Eylül University, Turkey, November 2020

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Bandırma Onyedil Eylül University, Turkey, April 2020

## Metrics

Publication: 57

Citation (WoS): 73

Citation (Scopus): 194

H-Index (WoS): 5

H-Index (Scopus): 8

## Awards

Karaca A. C., The Second Best Paper Award, Ieee International Conference On Innovations In Intelligent Systems And Applications (Inista2021) , August 2021

Karaca A. C., Top Peer Reviewer Award 2019 Cross Field, Clavariate Analytics, Publons, September 2019