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International Researcher IDs

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Education Information

Post Doctorate, Middle Tennessee State University, Advanced Engineering Technology, United States Of America 2016 - 2017

Doctorate, Firat University, Institute Of Science, Elektrik-Elektronik Mühendisliği, Turkey 2003 - 2007

Postgraduate, Firat University, Institute Of Science, Elektrik-Elektronik Mühendisliği, Turkey 1999 - 2003

Undergraduate, Firat University, Faculty Of Technical Education, Department Of Electronic Education, Turkey 1995 - 1999

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Yapay sinir ağı tabanlı akıllı yöntemlerle karmaşık sistemlerin modellenmesi, Firat University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2007

Postgraduate, İkinci dereceden sigma-delta modülatörünün pratik olarak gerçekleştirilmesi ve incelenmesi, Firat University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2003

Research Areas

Computer Sciences, Computer Vision, Computer Vision, Artificial Intelligence, Computer Learning and Pattern Recognition, Pattern Recognition and Image Processing, Engineering and Technology

Academic Titles / Tasks

Professor, Inonu University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2019 - Continues

Associate Professor, Inonu University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2014 - 2019

Assistant Professor, Inonu University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2012 - 2014

Assistant Professor, Firat University, Faculty Of Technology, Department Of Electrical And Electronics Engineering, 2011 - 2012

Assistant Professor, Firat University, Faculty Of Technical Education, Department Of Electronic Education, 2007 - 2011

Academic and Administrative Experience

Inonu University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2015 - Continues

Vice Dean, Inonu University, Mühendislik Fakültesi, 2015 - 2016

Courses

veri madenciliği, Undergraduate, 2013-2014

ileri makine öğrenmesi, Undergraduate Double Major, 2013-2014

sinyaller ve sistemler, Undergraduate, 2013-2014

bilgisayar organizasyonu ve mimarisi, Undergraduate, 2013-2014

İşletim Sistemleri, Undergraduate, 2013-2014

ileri veri madenciliği, Undergraduate Minor, 2013-2014

İşletim Sistemleri, Undergraduate, 2012-2013

bilgisayar organizasyonu ve mimarisi, Undergraduate, 2012-2013

ileri veri madenciliği, Undergraduate Minor, 2012-2013

yapay zeka, Undergraduate, 2012-2013

veri madenciliği, Undergraduate, 2012-2013

Advising Theses

HANBAY D., Eeg sinyalleri ile cihaz kontrolü, Postgraduate, H.ÇİĞ(Student), 2017

HANBAY D., Uyarlamalı kalman filtresi destekli ortalama kayma tabanlı nesne takibi, Postgraduate, M.MURAT(Student), 2016

HANBAY D., Web tabanlı ortalama saldırılarının makine öğrenmesi yöntemleri ile tespiti, Postgraduate, M.KAYTAN(Student), 2016

HANBAY D., Mobil cihazlar için bir eğitim platformunun tasarlanması ve analizi, Postgraduate, F.BURAK(Student), 2014

HANBAY D., Akıllı yöntemler ile konuşmacı tanıma, Postgraduate, E.RENÇBER(Student), 2011

HANBAY D., Yapay zekâ tabanlı konuşma tanıma sistemi, Postgraduate, M.BİLAL(Student), 2011

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A key review on security and privacy of big data: issues, challenges, and future research directions**
Demiroglu D., DAŞ R., HANBAY D.
SIGNAL IMAGE AND VIDEO PROCESSING, vol.17, no.4, pp.1335-1343, 2023 (SCI-Expanded)
- II. **Depth-wise Squeeze and Excitation Block-based Efficient-Unet model for surface defect detection**
Uzen H., Turkoglu M., Aslan M., HANBAY D.
VISUAL COMPUTER, vol.39, no.5, pp.1745-1764, 2023 (SCI-Expanded)
- III. **Hybrid 3D/2D Complete Inception Module and Convolutional Neural Network for Hyperspectral Remote Sensing Image Classification**
Firat H., ASKER M. E., BAYINDIR M. İ., HANBAY D.
NEURAL PROCESSING LETTERS, vol.55, no.2, pp.1087-1130, 2023 (SCI-Expanded)
- IV. **3D residual spatial-spectral convolution network for hyperspectral remote sensing image classification**

Firat H., ASKER M. E., BAYINDIR M. İ., HANBAY D.

NEURAL COMPUTING & APPLICATIONS, vol.35, no.6, pp.4479-4497, 2023 (SCI-Expanded)

- V. **Multi-dimensional feature extraction-based deep encoder-decoder network for automatic surface defect detection**
Uzen H., Turkoglu M., HANBAY D.
NEURAL COMPUTING & APPLICATIONS, vol.35, no.4, pp.3263-3282, 2023 (SCI-Expanded)
- VI. **Swin-MFNet: Swin transformer based multi-feature integration network for detection of pixel-level surface defects**
Uzen H., Turkoglu M., Yanikoglu B., HANBAY D.
EXPERT SYSTEMS WITH APPLICATIONS, vol.209, 2022 (SCI-Expanded)
- VII. **A CNN based real-time eye tracker for web mining applications**
Donuk K., ARI A., HANBAY D.
MULTIMEDIA TOOLS AND APPLICATIONS, vol.81, no.27, pp.39103-39120, 2022 (SCI-Expanded)
- VIII. **Fully Attentional Network for Low-Resource Academic Machine Translation and Post Editing**
Sel I., HANBAY D.
APPLIED SCIENCES-BASEL, vol.12, no.22, 2022 (SCI-Expanded)
- IX. **InceptionV3 Based Enriched Feature Integration Network Architecture for Pixel-Level Surface Defect Detection**
ÜZEN H., türkoğlu m., arı a., Hanbay D.
Gazi Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, vol.38, no.2, pp.721-732, 2022 (SCI-Expanded)
- X. **Robust optimization of SegNet hyperparameters for skin lesion segmentation**
Sahin N., Alpaslan N., HANBAY D.
MULTIMEDIA TOOLS AND APPLICATIONS, vol.81, no.25, pp.36031-36051, 2022 (SCI-Expanded)
- XI. **Detection of Optic Disc Localization from Retinal Fundus Image Using Optimized Color Space**
Toptas B., Toptas M., HANBAY D.
JOURNAL OF DIGITAL IMAGING, vol.35, no.2, pp.302-319, 2022 (SCI-Expanded)
- XII. **PlantDiseaseNet: convolutional neural network ensemble for plant disease and pest detection**
Turkoglu M., Yanikoglu B., HANBAY D.
SIGNAL IMAGE AND VIDEO PROCESSING, vol.16, no.2, pp.301-309, 2022 (SCI-Expanded)
- XIII. **Comparison of 3D CNN based deep learning architectures using hyperspectral images**
Firat H., HANBAY D.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.38, no.1, pp.521-534, 2022 (SCI-Expanded)
- XIV. **4CF-Net: New 3D convolutional neural network for spectral spatial classification of hyperspectral remote sensing images**
Huseyin F., HANBAY D.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.37, no.1, pp.439-453, 2022 (SCI-Expanded)
- XV. **Retinal blood vessel segmentation using pixel-based feature vector**
Toptas B., HANBAY D.
BIOMEDICAL SIGNAL PROCESSING AND CONTROL, vol.70, 2021 (SCI-Expanded)
- XVI. **Texture defect classification with multiple pooling and filter ensemble based on deep neural network**
Uzen H., Turkoglu M., HANBAY D.
EXPERT SYSTEMS WITH APPLICATIONS, vol.175, 2021 (SCI-Expanded)
- XVII. **A multi-division convolutional neural network-based plant identification system**
Turkoglu M., Aslan M., ARI A., Alcin Z. M., HANBAY D.
PEERJ COMPUTER SCIENCE, 2021 (SCI-Expanded)
- XVIII. **Prediction of neuropathy, neuropathic pain and kinesiophobia in patients with type 2 diabetes and design of computerized clinical decision support systems by using artificial intelligence**
ÖZDEMİR F., ARI A., Kilcik M. H., HANBAY D., ŞAHİN İ.

MEDICAL HYPOTHESES, vol.143, 2020 (SCI-Expanded)

- XIX. **A new artificial bee colony algorithm-based color space for fire/flame detection**
Toptas B., HANBAY D.
SOFT COMPUTING, vol.24, no.14, pp.10481-10492, 2020 (SCI-Expanded)
- XX. **Multi-model LSTM-based convolutional neural networks for detection of apple diseases and pests**
Turkoglu M., HANBAY D., Sengur A.
JOURNAL OF AMBIENT INTELLIGENCE AND HUMANIZED COMPUTING, 2019 (SCI-Expanded)
- XXI. **Leaf-based plant species recognition based on improved local binary pattern and extreme learning machine**
Turkoglu M., HANBAY D.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.527, 2019 (SCI-Expanded)
- XXII. **Recognition of plant leaves: An approach with hybrid features produced by dividing leaf images into two and four parts**
Turkoglu M., HANBAY D.
APPLIED MATHEMATICS AND COMPUTATION, vol.352, pp.1-14, 2019 (SCI-Expanded)
- XXIII. **Tumor detection in MR images of regional convolutional neural networks**
Ari A., HANBAY D.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.34, no.3, pp.1396-1409, 2019 (SCI-Expanded)
- XXIV. **Plant recognition system based on extreme learning machine by using shearlet transform and new geometric features**
Turkoglu M., HANBAY D.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.34, no.4, pp.2097-2112, 2019 (SCI-Expanded)
- XXV. **Plant disease and pest detection using deep learning-based features**
Turkoglu M., HANBAY D.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.27, no.3, pp.1636-1651, 2019 (SCI-Expanded)
- XXVI. **Deep learning based brain tumor classification and detection system**
Ari A., HANBAY D.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.26, no.5, pp.2275-2286, 2018 (SCI-Expanded)
- XXVII. **Principal curvatures based rotation invariant algorithms for efficient texture classification**
HANBAY K., ALPASLAN N., TALU M. F., HANBAY D.
NEUROCOMPUTING, vol.199, pp.77-89, 2016 (SCI-Expanded)
- XXVIII. **Continuous rotation invariant features for gradient-based texture classification**
HANBAY K., ALPASLAN N., TALU M. F., HANBAY D., KARCI A., KOCAMAZ A. F.
COMPUTER VISION AND IMAGE UNDERSTANDING, vol.132, pp.87-101, 2015 (SCI-Expanded)
- XXIX. **Comparison of intelligent methods for predicting aeration efficiency of high-head conduits**
ÜNSAL M., HANBAY D.
KUWAIT JOURNAL OF SCIENCE & ENGINEERING, vol.39, pp.113-130, 2012 (SCI-Expanded)
- XXX. **Modeling switched circuits based on wavelet decomposition and neural networks**
Hanbay D., Turkoglu I., Demir Y.
JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS, vol.347, no.3, pp.607-617, 2010 (SCI-Expanded)
- XXXI. **Predicting flow conditions over stepped chutes based on ANFIS**
Hanbay D., Baylar A., Ozpolat E.
SOFT COMPUTING, vol.13, no.7, pp.701-707, 2009 (SCI-Expanded)
- XXXII. **Application of least square support vector machines in the prediction of aeration performance of plunging overfall jets from weirs**
Baylar A., Hanbay D., Batan M.

- EXPERT SYSTEMS WITH APPLICATIONS, vol.36, no.4, pp.8368-8374, 2009 (SCI-Expanded)
- XXXIII. **An expert system based on least square support vector machines for diagnosis of the valvular heart disease**
HANBAY D.
EXPERT SYSTEMS WITH APPLICATIONS, vol.36, no.3, pp.4232-4238, 2009 (SCI-Expanded)
- XXXIV. **Prediction of aeration efficiency on stepped cascades by using least square support vector machines**
HANBAY D., Baylar A., Batan M.
EXPERT SYSTEMS WITH APPLICATIONS, vol.36, no.3, pp.4248-4252, 2009 (SCI-Expanded)
- XXXV. **An optimum feature extraction method for texture classification**
Avci E., Sengur A., Hanbay D.
EXPERT SYSTEMS WITH APPLICATIONS, vol.36, no.3, pp.6036-6043, 2009 (SCI-Expanded)
- XXXVI. **An expert system for predicting aeration performance of weirs by using ANFIS**
Baylar A., Hanbay D., Ozpolat E.
EXPERT SYSTEMS WITH APPLICATIONS, vol.35, no.3, pp.1214-1222, 2008 (SCI-Expanded)
- XXXVII. **An expert system based on wavelet decomposition and neural network for modeling Chua's circuit**
Hanbay D., Turkoglu I., Demir Y.
EXPERT SYSTEMS WITH APPLICATIONS, vol.34, no.4, pp.2278-2283, 2008 (SCI-Expanded)
- XXXVIII. **Prediction of wastewater treatment plant performance based on wavelet packet decomposition and neural networks**
HANBAY D., Turkoglu I., Demir Y.
EXPERT SYSTEMS WITH APPLICATIONS, vol.34, no.2, pp.1038-1043, 2008 (SCI-Expanded)
- XXXIX. **An expert Discrete Wavelet Adaptive Network Based Fuzzy Inference System for Digital Modulation Recognition**
AVCI E., Hanbay D., VAROL A.
EXPERT SYSTEMS WITH APPLICATIONS, vol.33, no.3, pp.582-589, 2007 (SCI-Expanded)
- XL. **Prediction of chemical oxygen demand (COD) based on wavelet decomposition and neural networks**
Hanbay D., Turkoglu I., Demir Y.
CLEAN-SOIL AIR WATER, vol.35, no.3, pp.250-254, 2007 (SCI-Expanded)
- XLI. **Modeling aeration efficiency of stepped cascades by using ANFIS**
Baylar A., Hanbay D., Ozpolat E.
CLEAN-SOIL AIR WATER, vol.35, no.2, pp.186-192, 2007 (SCI-Expanded)

Articles Published in Other Journals

- I. **Segmentation of Microscopic Blood Cell Images with Current Deep Learning Architectures**
Toptaş M., HANBAY D.
Mühendislik bilimleri ve araştırmaları dergisi (Online), vol.5, no.1, pp.135-141, 2023 (Peer-Reviewed Journal)
- II. **Classification of hyperspectral remote sensing images using different dimension reduction methods with 3D/2D CNN**
Firat H., ASKER M. E., HANBAY D.
REMOTE SENSING APPLICATIONS-SOCIETY AND ENVIRONMENT, vol.25, 2022 (ESCI)
- III. **Saldırı Tespit Sistemlerinde Sınıflandırma Yöntemlerinin Kıyaslanması**
İnce C., İNCE K., HANBAY D.
Anatolian Journal of Computer Science, vol.6, no.1, pp.1-10, 2021 (Peer-Reviewed Journal)
- IV. **Randomness Analysis With Runge Kutta Methods**
İnce C., İNCE K., HANBAY D.
Computer Science, 2021 (Peer-Reviewed Journal)
- V. **Derin Evrimsel Sinir Ağı Kullanılarak Kayısı Hastalıklarının Sınıflandırılması**
TÜRKOĞLU M., HANBAY K., SARAÇ SİVRİKAYA I., HANBAY D.
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.9, no.1, pp.334-345, 2020 (Peer-Reviewed Journal)

- VI. **Brain MR Image Classification Based on Deep Features by Using Extreme Learning Machines**
ARI A., ALÇİN Ö. F., HANBAY D.
Biomedical Journal of Scientific & Technical Research, vol.25, no.3, pp.19137-19153, 2020 (Peer-Reviewed Journal)
- VII. **A Hybrid Methodology Using Heuristic Methods for Two-Dimensional Cutting and Packing Problem with Rectangular Pieces**
Firat H., ALPASLAN N., HANBAY D.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGİSİ, vol.22, no.4, pp.979-988, 2019 (ESCI)
- VIII. **RENKSEL VE DOKUSAL ÖZELLİKLER KULLANARAK ALEV VE ALEV OLMAYAN GÖRÜNTÜ KESİTLERİNİN SINIFLANDIRILMASI**
TOPTAŞ B., HANBAY D.
Mühendislik Bilimleri ve Araştırmaları Dergisi, 2019 (Peer-Reviewed Journal)
- IX. **EMG Sinyallerinin Kısa Zamanlı Fourier Dönüşüm Özellikleri Kullanılarak Yapay Sinir Ağları ile Sınıflandırılması**
ARI A., AYAZ F., HANBAY D.
Fırat Üniversitesi Mühendislik Bilimleri Dergisi, vol.31, pp.443-451, 2019 (Peer-Reviewed Journal)
- X. **An Expert Systems for Brain MR Images Classification by Using Ensemble Neural Network**
ARI A., HANBAY D.
Anatolian Science - Bilgisayar Bilimleri Dergisi, vol.3, no.2, pp.44-56, 2018 (Peer-Reviewed Journal)
- XI. **Realization of a Hybrid Face Detecting and Verifying System**
DİRİK M., HANBAY D., KOCAMAZ A. F.
International Journal of Computer Applications, vol.179, no.12, pp.20-25, 2018 (Peer-Reviewed Journal)
- XII. **Leaf recognition system based on geometric features**
TÜRKOĞLU M., HANBAY D.
Turk Doğa ve Fen Dergisi, vol.5, no.2, 2016 (Peer-Reviewed Journal)
- XIII. **Separation of arteries and veins in retinal fundus images with a new CNN architecture**
Toptas B., HANBAY D.
COMPUTER METHODS IN BIOMECHANICS AND BIOMEDICAL ENGINEERING-IMAGING AND VISUALIZATION, vol.11, no.4, pp.1512-1522, 1 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Kronik Obstrüktif Akciğer Hastalarında Solunum Fonksiyon Test Değerlerinin Yapay Zeka Mimarisi Kullanarak Tahmin Edilmesi**
ÖZDEMİR F., SİNANOĞLU B., ALTINTOP GEÇKİL A., İnce C., HANBAY D.
8. Ulusal Fizyoterapi ve Rehabilitasyon Kongresi, Turkey, 08 May 2021
- II. **Spastisite Değerlendirilmesinde Yeni Bör Yöntem - Bir Yapay Zeka Modeli - Pilot Çalışma**
ÖZDEMİR F., TUTUŞ N., Arslan F., ARI B., HANBAY D., KEREM GÜNEL M.
Uluslararası Sağlıkta Yapay Zeka Kongresi 2020, Turkey, 16 January 2020
- III. **Kumaş Hatası Tespiti için Entropi ile Geliştirilmiş Otomatik Eşikleme Yöntemi**
ÜZEN H., FIRAT H., KARCI A., HANBAY D.
2019 International Artificial Intelligence and Data Processing Symposium (IDAP), 21 - 22 September 2019
- IV. **Büyük veri üzerine perspektif bir bakış**
DEMİROL D., DAŞ R., HANBAY D.
2019 International Artificial Intelligence and Data Processing Symposium (IDAP), Malatya, Turkey, 21 - 22 September 2019
- V. **Development of CNN architecture for Honey Bees Disease Condition**
YEROĞLU C., HANBAY D., ÜZEN H.
2019 International Artificial Intelligence and Data Processing Symposium (IDAP), Malatya, Turkey, 21 - 22 September 2019, pp.1-5

- VI. **Combination of Deep Features and KNN Algorithm for Classification of Leaf-Based Plant Species**
TÜRKÖĞLU M., HANBAY D.
2019 International Artificial Intelligence and Data Processing Symposium (IDAP), 21 - 22 September 2019
- VII. **Feature Selection by Using Heuristic Methods for Text Classification**
YERÖĞLU C., HANBAY D., Sel İ.
2019 International Artificial Intelligence and Data Processing Symposium (IDAP), Malatya, Turkey, 21 - 22 September 2019, pp.1-6
- VIII. **Tip 2 Diyabetli Hastalarda Nöropati, Ağrı ve Kinezyofobi Düzeyleri Yapay Sinir Ağı Kullanımı ile Tahmin Edilebilir mi?**
ÖZDEMİR F., ARI A., KILÇIK M. H., HANBAY D., ŞAHİN İ.
7. Ulusal Fizyoterapi ve Rehabilitasyon Kongresi, Turkey, 18 April 2019
- IX. **Tip 2 diyabetli hastalarda nöropati, ağrı ve kinezyofobi düzeyleri yapay sinir ağı kullanımı ile tahmin edilebilir mi?**
ÖZDEMİR F., ARI A., KILÇIK M. H., HANBAY D., ŞAHİN İ.
7. ULUSAL VE REHABİLİTASYON KONGRESİ, Ankara, Turkey, 18 - 20 April 2019, vol.30, pp.106
- X. **E-Mail Classification Using Natural Language Processing**
Sel İ., HANBAY D.
27th Signal Processing and Communications Applications Conference (SIU), Sivas, Turkey, 24 - 26 April 2019
- XI. **Automatic Thresholding Method Developed With Entropy For Fabric Defect Detection**
Uzen H., Firat H., KARCI A., HANBAY D.
International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 21 - 22 September 2019
- XII. **Feature Selection for Text Classification Using Mutual Information**
Sel İ., KARCI A., HANBAY D.
International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 21 - 22 September 2019
- XIII. **A Perspective Bakes Your Ballistic Power**
Demiroğlu D., Das R., HANBAY D.
International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 21 - 22 September 2019
- XIV. **Plant Recognition System based on Deep Features and Color-LBP method**
Türkoglu M., HANBAY D.
27th Signal Processing and Communications Applications Conference (SIU), Sivas, Turkey, 24 - 26 April 2019
- XV. **Biyocografya Tabanlı Optimizasyon ile Yangın Görüntülerinin Ayrıştırılması**
Toptaş B., HANBAY D., YERÖĞLU C.
International Conference on Artificial Intelligence and Data Processing (IDAP 2018), Malatya, Turkey, 28 - 30 September 2018, pp.1000-1004
- XVI. **Derin Öğrenme Algoritmalarından Elde Edilen Özniteliklere Dayalı Kayısı Hastalık Tespiti**
TÜRKÖĞLU M., HANBAY D.
International Conference on Artificial Intelligence and Data Processing (IDAP 2018), 28 - 30 September 2018, pp.805-808
- XVII. **PIDA Denetçi Parametrelerinin PSO Algoritması ile Belirlenmesi**
DONUK K., ÖZBEY N., İNAN M., YERÖĞLU C., HANBAY D.
International Conference on Artificial Intelligence and Data Processing (IDAP 2018), 28 - 30 September 2018
- XVIII. **Separation of Fire Images with Biogeography-Based Optimization**
TOPTAS B., HANBAY D., YERÖĞLU C.
International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 28 - 30 September 2018
- XIX. **Investigation of PIDA Controller Parameters via PSO Algorithm**
Donuk K., ÖZBEY N., İnan M., YERÖĞLU C., HANBAY D.
International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 28 - 30 September

2018

- XX. **Apricot Disease Identification based on Attributes Obtained from Deep Learning Algorithms**
Turkoglu M., HANBAY D.
International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 28 - 30 September 2018
- XXI. **Alev Görüntülerinde Genetik Algoritma ile Özellik Seçimi**
TOPTAŞ B., TOPTAŞ M., ARI A., HANBAY D.
International Conference on Multidisciplinary, Science, Engineering and Technology (IMESET), 2017, 27 - 29 October 2017
- XXII. **MR Görüntülerinden Aşırı Öğrenme Makinesi Tabanlı Tümör Tespiti**
ARI A., HANBAY D.
International Conference on Multidisciplinary, Science, Engineering and Technology (IMESET'17 Bitlis), 27 - 29 October 2017
- XXIII. **Flame detection using HSI color space**
Toptaş B., HANBAY D.
2017 International Artificial Intelligence and Data Processing Symposium (IDAP), 16 - 17 September 2017
- XXIV. **Classification of Visual Stimuli for SSVEP-Based Brain Computer Interface**
ÇİĞ H., HANBAY D.
International Conference on Advances and Innovations in Engineering, Elazığ, Turkey, 10 - 12 May 2017, pp.1003-1006
- XXV. **SSVEP Tabanlı Beyin Bilgisayar Arayüzü İçin Görsel Uyarıların Sınıflandırılması**
ÇİĞ H., HANBAY D.
International Conference on Advances and Innovations in Engineering, Elazığ, Turkey, 10 - 12 May 2017, pp.1-4
- XXVI. **Robot Arm Control With for SSVEP-Based Brain Signals In Brain Computer Interface**
ÇİĞ H., HANBAY D., Tuysuz F.
2017 International Artificial Intelligence and Data Processing Symposium (IDAP), Malatya, Turkey, 16 - 17 September 2017
- XXVII. **Leaf Recognition based on Artificial Neural Network**
AYAZ F., Ari A., HANBAY D.
2017 International Artificial Intelligence and Data Processing Symposium (IDAP), Malatya, Turkey, 16 - 17 September 2017
- XXVIII. **Smoke Detection Using Texture and Color Analysis in Videos**
TOPTAŞ M., HANBAY D.
2017 International Artificial Intelligence and Data Processing Symposium (IDAP), Malatya, Turkey, 16 - 17 September 2017
- XXIX. **Classification of EMG Signals by LRF-ELM**
AYAZ F., Ari A., HANBAY D.
2017 International Artificial Intelligence and Data Processing Symposium (IDAP), Malatya, Turkey, 16 - 17 September 2017
- XXX. **Leaf Recognition System Based on Color and Morphological Features by Using Support Vector Machines**
TÜRKOĞLU M., HANBAY D.
International Engineering, Science and Education Conference, Diyarbakır, Turkey, 1 - 03 December 2016
- XXXI. **İçme Suyu İçerisindeki Zararlı Bakterilerin Görüntü İşleme Tabanlı Sınıflandırılması**
TÜRKOĞLU M., ALÇİN Ö. F., HANBAY D.
International Symposium of Water and Wastewater Management (UKSAY16), Malatya, Turkey, 26 - 28 October 2016
- XXXII. **Classification of harmful bacteria in Drinking Water based on Image Processing**
TÜRKOĞLU M., ALÇİN Ö. F., HANBAY D.
Uluslararası Kentsel Su ve Atıksu Yönetimi, 26 - 28 October 2016
- XXXIII. **Mobil Uzman Sistem İle Suyun İçilebilirliğinin Belirlenmesi**

toptaş m., ayaz f., çiğ h., ARI A., HANBAY D.

ULUSLARARASI KENTSEL SU VE ATIK SU YÖNETİMİ SEMPOZYUMU, 26 - 28 October 2016

XXXIV. Yapay Sinir Ağı Tabanlı EMG Sinyallerin Sınıflandırılması

AYAZ F., ARI A., HANBAY D.

International Artificial Intelligence and Data Processing Symposium, 16 - 17 September 2016

XXXV. Apricot Plant Classification Based on Leaf Recognition by using Convolutinal Neural Networks

ARI b., ŞENGÜR A., ARI A., HANBAY D.

International Conference on Artificial Intelligence and Data Processing, 16 - 17 September 2016

XXXVI. Least Squares Support Vector Machines and Artifical Neural Networks Models for the Classification of Ischemic Stroke Disease

HANBAY D., SARIHAN M. E., ÇOLAK C., Ertan C.

3. International Critical Care and Emergency Medicine Congress, 19 - 22 May 2016

XXXVII. Detection of Brain Tumor from the MR Images by using Hybrid Features

ARI A., HANBAY D.

International Conference on Natural Science and Engineering, 19 - 20 March 2016

XXXVIII. Geometrik ve istatistiksel özelliklere dayalı yaprak tanıma sistemi

TÜRKOĞLU M., ALÇİN Ö. F., ÜSTÜNDAĞ M., HANBAY D.

International Conference on Natural Science and Engineering (ICNASE'16), 19 - 20 March 2016

XXXIX. Breast mass classification in mammogram images based on wavelet transform

ALPASLAN N., imik ö., HANBAY D.

International conference on natural science and engineering, 19 - 20 March 2016

XL. Classification of Breast Masses in Mammogram Images using KNN

ALPASLAN N., Kara A., Zencir B., HANBAY D.

23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.1469-1472

XLI. Classification of The Grape Varieties based on Leaf Recognition by Using SVM Classifier

Turkoglu M., HANBAY D.

23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.2674-2677

XLII. Computer-aided Tumor Detection System Using Brain MR Images

Ari A., ALPASLAN N., HANBAY D.

Medical Technologies National Conference (TIPTEKNO), Bodrum, Turkey, 15 - 18 October 2015

XLIII. Mean Shift Based Object Tracking Supported with Adaptive Kalman Filter

Turhan M. M., HANBAY D.

23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.2670-2673

XLIV. Continuous Rotation Invariant Texture Classification Based on CoHOG Algorithm

ALPASLAN N., HANBAY K., HANBAY D., TALU M. F.

3rd International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2014), Vienna, Austria, 25 - 28 August 2014, pp.470

XLV. A NOVEL TEXTURE CLASSIFICATION METHOD BASED ON HESSIAN MATRIX AND PRINCIPAL CURVATURES

ALPASLAN N., HANBAY K., HANBAY D., TALU M. F.

22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.160-163

XLVI. Determining Noise Performance of Co-Occurrence GMuLBP on Object Detection Task

ALPASLAN N., Turhan M. M., HANBAY D.

6th International Conference on Machine Vision (ICMV), London, Canada, 16 - 17 November 2013, vol.9067

Supported Projects

UCUZ İ., HANBAY D., GÜNEL M. K., ÖZCAN Ö., ÖZDEMİR F., Project Supported by Higher Education Institutions, Dikkat Eksikliği ve Hiperaktivite Bozukluğu Tanısı Alan Çocuklarda Motor Beceri ve El yazısı karakteristiklerinin Yürütücü İşlevlerle Olan İlişkinin Tedavi Sürecinde Değerlendirilmesi, 2019 - 2023

HANBAY D., ÜZEN H., Project Supported by Higher Education Institutions, İmalat Sistemlerinde Derin Öğrenme Tabanlı Doku Hata Tespiti, 2021 - 2022

HANBAY D., ÖZDEMİR M. F., Project Supported by Higher Education Institutions, Derin Öğrenme ile Çevrimiçi Nesne Takibi, 2021 - 2022

HANBAY D., TOPTAŞ B., Project Supported by Higher Education Institutions, Retinal Görüntü Analizi ile Diyabetik Retinal anevrizmalarının erken teşhisi, 2020 - 2022

HANBAY D., Project Supported by Higher Education Institutions, MÜHENDİSLİK FAKÜLTESİ BİLGİSAYAR LABORATUVARI VE BİLGİSAYAR MÜHENDİSLİĞİ ROBOTİK LABORATUVARLARI ALTYAPISININ GÜÇLENDİRİLMESİ, 2015 - 2019

HANBAY D., TUBİTAK Project, Yapay Zeka Tabanlı Akıllı Şebeke Modelleme ve Analizi, 2016 - 2017

HANBAY D., Project Supported by Higher Education Institutions, BİYOLOJİK SİNYALLER İLE CİHAZ KONTROLÜ, 2016 - 2017

Metrics

Publication: 103

Citation (WoS): 833

Citation (Scopus): 448

H-Index (WoS): 16

H-Index (Scopus): 10

Congress and Symposium Activities

International Conference on Advances and Innovations in Engineering, Attendee, Elazığ, Turkey, 2017