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International Researcher IDs

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Publons / Web Of Science ResearcherID: ABI-3936-2020

ScopusID: 57191953654

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Education Information

Post Doctorate, Ihsan Dogramaci Bilkent University, MÜHENDİSLİK FAKÜLTESİ, ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ BÖLÜMÜ, Turkey 2021 - 2023

Doctorate, Konya Technical University, MÜHENDİSLİK FAKÜLTESİ, ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ BÖLÜMÜ, Turkey 2015 - 2019

Undergraduate, Selcuk University, MÜHENDİSLİK FAKÜLTESİ, ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ BÖLÜMÜ, Turkey 2013 - 2017

Postgraduate, Selcuk University, MÜHENDİSLİK FAKÜLTESİ, ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ BÖLÜMÜ, Turkey 2011 - 2015

Undergraduate, Pamukkale University, TEKNİK EĞİTİM FAKÜLTESİ, ELEKTRONİK VE BİLGİSAYAR EĞİTİMİ BÖLÜMÜ, Turkey 2007 - 2011

Research Areas

Computer Vision, Artificial Intelligence, Computer Learning and Pattern Recognition, Biomedical Image Processing, Biosignal Processing

Academic Titles / Tasks

Associate Professor, Ankara Hacı Bayram Veli University, Faculty Of Economics And Administrative Sciences, Department Of Management Information Systems, 2024 - Continues

Associate Professor, Amasya University, MÜHENDİSLİK FAKÜLTESİ, ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ BÖLÜMÜ, 2021 - 2024

Research Assistant, Amasya University, MÜHENDİSLİK FAKÜLTESİ, ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ BÖLÜMÜ, 2013 - 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- Reverse gamma correction based GARCH model for underwater image dehazing and detail exposure**
Alenezi F., Armghan A., Alharbi A. G., ÖZTÜRK Ş., Althubiti S. A., Mansour R. F.
Expert Systems with Applications, vol.232, 2023 (SCI-Expanded)

- II. **Unsupervised Medical Image Translation with Adversarial Diffusion Models**
Özbey M., Dalmaz O., Dar S. U. H., Bedel H. A., ÖZTÜRK Ş., Güngör A., Çukur T.
IEEE Transactions on Medical Imaging, vol.42, no.12, pp.3524-3539, 2023 (SCI-Expanded)
- III. **Parallel-stream fusion of scan-specific and scan-general priors for learning deep MRI reconstruction in low-data regimes**
Dar S. U. H., ÖZTÜRK Ş., Özbey M., Oguz K. K., Çukur T.
Computers in Biology and Medicine, vol.167, 2023 (SCI-Expanded)
- IV. **Adaptive diffusion priors for accelerated MRI reconstruction**
Güngör A., Dar S. U., ÖZTÜRK Ş., Korkmaz Y., Bedel H. A., Elmas G., Ozbey M., Çukur T.
Medical Image Analysis, vol.88, 2023 (SCI-Expanded)
- V. **Content-based medical image retrieval with opponent class adaptive margin loss**
ÖZTÜRK Ş., Çelik E., Çukur T.
Information Sciences, vol.637, 2023 (SCI-Expanded)
- VI. **Focal modulation network for lung segmentation in chest X-ray images**
ÖZTÜRK Ş., Çukur T.
Turkish Journal of Electrical Engineering and Computer Sciences, vol.31, no.6, pp.1006-1020, 2023 (SCI-Expanded)
- VII. **An effective hashing method using W-Shaped contrastive loss for imbalanced datasets**
Alenezi F., ÖZTÜRK Ş., Armghan A., Polat K.
Expert Systems with Applications, vol.204, 2022 (SCI-Expanded)
- VIII. **Deep Clustering via Center-Oriented Margin Free-Triplet Loss for Skin Lesion Detection in Highly Imbalanced Datasets**
ÖZTÜRK Ş., Çukur T.
IEEE Journal of Biomedical and Health Informatics, vol.26, no.9, pp.4679-4690, 2022 (SCI-Expanded)
- IX. **A novel binary emperor penguin optimizer for feature selection tasks**
Kalra M., Kumar V., Kaur M., Idris S. A., ÖZTÜRK Ş., Alshazly H.
Computers, Materials and Continua, vol.70, no.3, pp.6239-6255, 2022 (SCI-Expanded)
- X. **A novel classification framework using multiple bandwidth method with optimized CNN for brain-computer interfaces with EEG-fNIRS signals**
Nour M., ÖZTÜRK Ş., Polat K.
Neural Computing and Applications, vol.33, no.22, pp.15815-15829, 2021 (SCI-Expanded)
- XI. **An adaptive deep learning framework to classify unknown composite power quality event using known single power quality events**
Sindi H., Nour M., Rawa M., ÖZTÜRK Ş., Polat K.
Expert Systems with Applications, vol.178, 2021 (SCI-Expanded)
- XII. **A novel hybrid deep learning approach including combination of 1D power signals and 2D signal images for power quality disturbance classification**
Sindi H., Nour M., Rawa M., ÖZTÜRK Ş., Polat K.
Expert Systems with Applications, vol.174, 2021 (SCI-Expanded)
- XIII. **Class-driven content-based medical image retrieval using hash codes of deep features**
ÖZTÜRK Ş.
Biomedical Signal Processing and Control, vol.68, 2021 (SCI-Expanded)
- XIV. **Classification of Coronavirus (COVID-19) from X-ray and CT images using shrunken features**
ÖZTÜRK Ş., Özkaya U., Barstuğan M.
International Journal of Imaging Systems and Technology, vol.31, no.1, pp.5-15, 2021 (SCI-Expanded)
- XV. **Residual CNN + Bi-LSTM model to analyze GPR B scan images**
Özkaya U., ÖZTÜRK Ş., Melgani F., Seyfi L.
Automation in Construction, vol.123, 2021 (SCI-Expanded)
- XVI. **Random fully connected layered 1D CNN for solving the Z-bus loss allocation problem**
Sindi H., Nour M., Rawa M., ÖZTÜRK Ş., Polat K.
Measurement: Journal of the International Measurement Confederation, vol.171, 2021 (SCI-Expanded)
- XVII. **Attention-based end-to-end CNN framework for content-based X-ray image retrieval**

- ÖZTÜRK Ş., Alhudhaif A., Polat K.
 Turkish Journal of Electrical Engineering and Computer Sciences, vol.29, pp.2680-2693, 2021 (SCI-Expanded)
- XVIII. **Comparative regression analysis for estimating resonant frequency of C-like patch antennas**
 Özkaya U., Yigit E., Seyfi L., ÖZTÜRK Ş., Singh D.
 Mathematical Problems in Engineering, vol.2021, 2021 (SCI-Expanded)
- XIX. **Residual LSTM layered CNN for classification of gastrointestinal tract diseases**
 ÖZTÜRK Ş., Özkaya U.
 Journal of Biomedical Informatics, vol.113, 2021 (SCI-Expanded)
- XX. **Automatic Detection of Power Quality Disturbance Using Convolutional Neural Network Structure with Gated Recurrent Unit**
 YİĞİT E., Özkaya U., ÖZTÜRK Ş., Singh D., Gritli H.
 Mobile Information Systems, vol.2021, 2021 (SCI-Expanded)
- XXI. **Stacked auto-encoder based tagging with deep features for content-based medical image retrieval**
 ÖZTÜRK Ş.
 Expert Systems with Applications, vol.161, 2020 (SCI-Expanded)
- XXII. **Variants of Artificial Bee Colony algorithm and its applications in medical image processing**
 ÖZTÜRK Ş., Ahmad R., Akhtar N.
 Applied Soft Computing Journal, vol.97, 2020 (SCI-Expanded)
- XXIII. **A healthcare evaluation system based on automated weighted indicators with cross-indicators based learning approach in terms of energy management and cybersecurity**
 Nour M., Sindi H., Abozinadah E., ÖZTÜRK Ş., Polat K.
 International Journal of Medical Informatics, vol.144, 2020 (SCI-Expanded)
- XXIV. **Gastrointestinal tract classification using improved LSTM based CNN**
 ÖZTÜRK Ş., Özkaya U.
 Multimedia Tools and Applications, vol.79, no.39-40, pp.28825-28840, 2020 (SCI-Expanded)
- XXV. **Skin Lesion Segmentation with Improved Convolutional Neural Network**
 ÖZTÜRK Ş., Özkaya U.
 Journal of Digital Imaging, vol.33, no.4, pp.958-970, 2020 (SCI-Expanded)
- XXVI. **Cell-type based semantic segmentation of histopathological images using deep convolutional neural networks**
 ÖZTÜRK Ş., Akdemir B.
 International Journal of Imaging Systems and Technology, vol.29, no.3, pp.234-246, 2019 (SCI-Expanded)
- XXVII. **A convolutional neural network model for semantic segmentation of mitotic events in microscopy images**
 ÖZTÜRK Ş., Akdemir B.
 Neural Computing and Applications, vol.31, no.8, pp.3719-3728, 2019 (SCI-Expanded)
- XXVIII. **HIC-net: A deep convolutional neural network model for classification of histopathological breast images**
 ÖZTÜRK Ş., Akdemir B.
 Computers and Electrical Engineering, vol.76, pp.299-310, 2019 (SCI-Expanded)
- XXIX. **Effective histopathological image area reduction method for real-time applications**
 ÖZTÜRK Ş., Akdemir B.
 Journal of Electronic Imaging, vol.27, no.5, 2018 (SCI-Expanded)
- XXX. **Fuzzy logic-based segmentation of manufacturing defects on reflective surfaces**
 ÖZTÜRK Ş., Akdemir B.
 Neural Computing and Applications, vol.29, no.8, pp.107-116, 2018 (SCI-Expanded)
- XXXI. **Real-time product quality control system using optimized Gabor filter bank**
 ÖZTÜRK Ş., Akdemir B.
 International Journal of Advanced Manufacturing Technology, vol.96, no.1-4, pp.11-19, 2018 (SCI-Expanded)
- XXXII. **Phase classification of mitotic events using selective dictionary learning for stem cell populations**
 ÖZTÜRK Ş., Akdemir B.

Articles Published in Other Journals

- I. **Hash Code Generation using Deep Feature Selection Guided Siamese Network for Content-Based Medical Image Retrieval**
ÖZTÜRK Ş.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.34, no.3, pp.733-746, 2021 (ESCI)
- II. **Dimension optimization of multi-band microstrip antennas using deep learning methods**
ÖZKAYA U., SEYFİ L., ÖZTÜRK Ş.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ DERGİSİ, vol.27, no.2, pp.229-233, 2021 (ESCI)
- III. **Mozaiklenmiş İnsansız Hava Aracı Görüntülerinde Eksik Bölgelerin Exempler İç Boyaması ile Elde Edilmesi**
ÖZKAYA U., MAKİNECİ H. B., ÖZTÜRK Ş., ORHAN O.
GEOMATİK, no.1, pp.61-68, 2021 (Peer-Reviewed Journal)
- IV. **Roof-KSA: Binaların Semantik Bölütlemesi İçin Az Parametreye Sahip Konvolüsyonel Sinir Ağı Modeli**
ÖZKAYA U., ÖZTÜRK Ş.
Bilecik Şeyh Edebali Üniversitesi Fen Bilimleri Dergisi, vol.2, no.2, pp.1094-1105, 2020 (Peer-Reviewed Journal)
- V. **FUSED DEEP FEATURES BASED CLASSIFICATION FRAMEWORK FOR COVID-19 CLASSIFICATION WITH OPTIMIZED MLP**
ÖZTÜRK Ş., YİĞİT E., ÖZKAYA U.
SELCUK UNIVERSITY JOURNAL OF ENGINEERING, SCIENCE AND TECHNOLOGY, vol.8, pp.15-27, 2020 (Peer-Reviewed Journal)
- VI. **A Two-stage Whale Optimization Method for Classification of Parkinson s Disease Voice Recordings**
ÖZTÜRK Ş., ÜNAL Y.
International Journal of Intelligent Systems and Applications in Engineering, vol.8, no.2, pp.84-93, 2020 (Scopus)
- VII. **COMPARISON OF HOG, MSER, SIFT, FAST, LBP AND CANNY FEATURES FOR CELL DETECTION IN HISTOPATHOLOGICAL IMAGES**
ÖZTÜRK Ş., AKDEMİR B.
Helix, vol.8, no.3, pp.3321-3325, 2018 (Peer-Reviewed Journal)
- VIII. **Detection of PCB Soldering Defects using Template Based Image Processing Method**
ÖZTÜRK Ş., AKDEMİR B.
International Journal of Intelligent Systems and Applications in Engineering, vol.5, no.4, pp.269-273, 2017 (Peer-Reviewed Journal)
- IX. **Control of a real-time humanoid robot based on gesture detection**
ÖZTÜRK Ş., Akdemir B.
Electronics World, vol.123, no.1975, pp.34-37, 2017 (Scopus)
- X. **A Novel Isolated Filter Built with One Transistor for Industrial Devices**
AKDEMİR B., KULAKSIZ A. A., ÖZTÜRK Ş.
International Journal of Electronics and Electrical Engineering, vol.4, no.3, pp.226-230, 2016 (Peer-Reviewed Journal)
- XI. **Glass Surface Defects Detection with Wavelet Transforms**
AKDEMİR B., ÖZTÜRK Ş.
International Journal of Materials, Mechanics and Manufacturing, vol.3, no.3, pp.170-173, 2015 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Diagnostic Biomedical Signal and Image Processing Applications With Deep Learning Methods**
POLAT K., ÖZTÜRK Ş.
Elsevier - Academic Press, 2023
- II. **Convolutional Neural Networks for Medical Image Processing Applications**
ÖZTÜRK Ş.
CRC Press, Boca Raton, 2022
- III. **Gaussian Regression Models for Day-Level Forecasting of COVID-19 in European Countries**
ÖZKAYA U., ÖZTÜRK Ş.
in: Understanding COVID-19: The Role of Computational Intelligence, Janmenjoy Nayak, Bighnaraj Naik, Ajith Abraham, Editor, Springer, pp.339-356, 2022
- IV. **Coronavirus (COVID-19) Classification Using Deep Features Fusion and Ranking Technique**
ÖZKAYA U., ÖZTÜRK Ş., BARSTUĞAN M.
in: Big Data Analytics and Artificial Intelligence Against COVID-19: Innovation Vision and Approach, Aboul-Ella Hassanien, Nilanjan Dey, Sally Elghamrawy, Editor, Springer, pp.281-295, 2020

Refereed Congress / Symposium Publications in Proceedings

- I. **Focal Modulation Based End-to-End Multi-Label Classification for Chest X-Ray Image Classification**
ÖZTÜRK Ş., ÇUKUR T.
31. IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Turkey, 5 - 08 July 2023
- II. **Comparison of Current Convolutional Neural Network Architectures for Classification of Damaged and Undamaged Cars**
ÜNAL Y., ÖZTÜRK Ş., Dudak M. N., EKİCİ M.
Proceedings of the 2nd International Conference on Deep Learning, Artificial Intelligence and Robotics, Italy, 07 December 2020
- III. **Detailed Investigation and Comparison of Various Binarization Algorithms for Hashing**
ÖZTÜRK Ş.
2021 3rd International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA), Turkey, 11 - 13 June 2021
- IV. **Comparison of Pairwise Similarity Distance Methods for Effective Hashing**
ÖZTÜRK Ş.
INTERNATIONAL CONFERENCE ON APPLIED SCIENTIFIC COMPUTATIONAL INTELLIGENCEUSING DATA SCIENCE, India, 22 - 23 December 2020
- V. **Image Inpainting based Compact Hash Code Learning using Modified U-Net**
ÖZTÜRK Ş.
2020 4th International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Istanbul, Turkey, Turkey, 22 - 24 October 2020
- VI. **Convolutional neural network based dictionary learning to create hash codes for content-based image retrieval**
ÖZTÜRK Ş.
10th International Conference of Information and Communication Technology (ICICT-2020), India, 13 - 15 November 2020
- VII. **Siamese Network kullanarak İki Aşamalı Sıralı Kayıplara dayalı Otomatik Hash Kodu Üretimi**
ÖZTÜRK Ş.
1st International Conference on Computer, Electrical and Electronics Sciences, Konya, Turkey, 8 - 10 October 2020, pp.39-46
- VIII. **Enhancement of Near Field GB-SAR Image Quality Using Beamwidth Filter**
YİĞİT E., ÖZKAYA U., ÖZTÜRK Ş.
1st international conference on Computer,Electrical and Electronics Sciences, Konya, Turkey, 8 - 10 October 2020, pp.480-487

- IX. **An Efficient Retinal Blood Vessel Segmentation using Morphological Operations**
ÖZKAYA U., ÖZTÜRK Ş., SEYFİ L., AKDEMİR B.
2018 2nd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Ankara, Turkey, Turkey, 19 - 21 October 2018
- X. **Convolution Kernel Size Effect on Convolutional Neural Network in Histopathological Image Processing Applications**
ÖZTÜRK Ş., ÖZKAYA U., AKDEMİR B., SEYFİ L.
International Symposium on Fundamentals of Electrical Engineering 2018, Bucharest, Romania, 1 - 03 November 2018
- XI. **Weighting and Classification of Image Features using Optimization Algorithms**
ÖZTÜRK Ş., ÖZKAYA U., AKDEMİR B., SEYFİ L.
International Symposium on Fundamentals of Electrical Engineering 2018, Bucharest, Romania, 1 - 03 November 2018
- XII. **Effects of Histopathological Image Pre-processing on Convolutional Neural Networks**
ÖZTÜRK Ş., AKDEMİR B.
International Conference on Computational Intelligence and Data Science, Gurugram, India, 7 - 08 April 2018, vol.132, pp.396-403
- XIII. **Application of Feature Extraction and Classification Methods for Histopathological Image using GLCM, LBP, LBGLCM, GLRLM and SFTA**
ÖZTÜRK Ş., AKDEMİR B.
International Conference on Computational Intelligence and Data Science, Gurugram, India, 7 - 08 April 2018, vol.132, pp.40-46
- XIV. **Combining different image parts of instruments with image mosaicing**
ÖZTÜRK Ş., ÖZKAYA U., AKDEMİR B., SEYFİ L., KULAKSIZ A. A.
4th International Scientific and Practical Conference «Problems of Infocommunications. Science and Technology», Kharkiv, Ukraine, 9 - 12 October 2017
- XV. **Soft Tissue Sacromas Segmentation using Optimized OtsuThresholding Algorithms**
ÖZTÜRK Ş., ÖZKAYA U., AKDEMİR B., SEYFİ L.
5th International Conference on New Frontiers of Engineering, Science, Management and Humanities, New Delhi, India, 17 September 2017, pp.809-814
- XVI. **Automatic leaf segmentation using grey wolf optimizer based neural network**
ÖZTÜRK Ş., AKDEMİR B.
Electronics, 2017, Palang, Bangladesh, 19 - 21 June 2017
- XVII. **NOVEL STRATEGIES FOR MPPT OPERATION**
ÖZKAYA U., ÖZTÜRK Ş., SEYFİ L., AKDEMİR B.
INTERNATIONAL CONFERENCE ON ADVANCESIN SCIENCE AND ARTS ISTANBUL 2017, 22 - 31 March 2017
- XVIII. **REGION ANALYSIS OF BURIED OBJECT BASED ON FULLY AUTOMATED IMAGE PROCESSING**
ÖZKAYA U., ÖZTÜRK Ş., SEYFİ L., AKDEMİR B.
INTERNATIONAL CONFERENCE ON ADVANCESIN SCIENCE AND ARTS ISTANBUL 2017, 29 - 31 March 2017
- XIX. **Novel BiasFeed cellular neural network model for glass defect inspection**
ÖZTÜRK Ş., AKDEMİR B.
Control, Decision and Information Technologies (CoDIT), 2016 International Conference on, Saint Julian's, Malta, 6 - 08 April 2016
- XX. **Comparison of Edge Detection Algorithms for Texture Analysis on Glass Production**
ÖZTÜRK Ş., AKDEMİR B.
World Conference on Technology, Innovation and Entrepreneurship, İstanbul, Turkey, 28 May 2015, vol.195, pp.2675-2682

Supported Projects

Öztürk Ş., Çukur T., TUBITAK Project, Federe Öğrenme İle Çok Kuruluşlu Tıbbi Görüntü Erişimine Dayalı Karar Destek Sistemi, 2023 - 2026
Öztürk Ş., TUBITAK Project, Görsel Dönüştürücü Sinir Ağları İle X-Ray Görüntülerinden Hastalık Tespiti, 2021 - 2023
Öztürk Ş., TUBITAK Project, İçerik Tabanlı Medikal Görüntü Erişim Sistemleri İçin Yeni Görsel Dikkat (Visual Attention) Yöntemine Dayalı Hash Kod Üretimi, 2020 - 2021
Akdemir B., TUBITAK Project, Cam Üretiminde Görüntü İşleme ile Tozdan Bağımsız Ürün Kontrol Sistemi, 2015 - 2017

Metrics

Publication: 67
Citation (Scopus): 1074
H-Index (WoS): 16
H-Index (Scopus): 19

Scholarships

2250-Lisansüstü Bursları Performans Programı, TUBITAK, 2024 - 2024