

Assoc. Prof. SERKAN ÖZTÜRK

Personal Information

Office Phone: [+90 352 207 6666](tel:+903522076666) Extension: 32551

Email: ozturks@erciyes.edu.tr

Web: <https://avesis.erciyes.edu.tr/ozturks/>

International Researcher IDs

ORCID: 0000-0002-0309-3420

Publons / Web Of Science ResearcherID: B-4673-2013

ScopusID: 36805057700

Yoksis Researcher ID: 178736

Education Information

Post Doctorate, Ryerson University, Faculty Of Science, Computer Science, Canada 2010 - 2011

Doctorate, Erciyes University, Fen Bilimleri Enstitüsü, Elektronik Mühendisliği, Turkey 2002 - 2009

Postgraduate, Erciyes University, Fen Bilimleri Enstitüsü, Elektronik Mühendisliği, Turkey 1999 - 2002

Undergraduate, Karadeniz Technical University, Mühendislik-Mimarlık Fakültesi, Bilgisayar Mühendisliği, Turkey 1995 - 1999

Research Areas

Information Security and Reliability, Hiding Information, Computer Networks, Communications and Network Protocols, Computer Vision, Pattern Recognition and Image Processing

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **TCP Congestion Management Using Deep Reinforcement Trained Agent for RED**
Ali M. H., Öztürk S.
CONCURRENCY COMPUTATION PRACTICE AND EXPERIENCE, vol.2024, no.0, pp.1-13, 2024 (SCI-Expanded)
- II. **Efficient and natural image fusion method for low-light images based on active contour model and adaptive gamma correction**
Ozturk N., ÖZTÜRK S.
Multimedia Tools and Applications, vol.83, no.16, pp.48437-48456, 2024 (SCI-Expanded)
- III. **Image authentication and recovery: Sudoku puzzle and MD5 hash algorithm based self-embedding fragile image watermarking method**
RENKLİER A., ÖZTÜRK S.
Multimedia Tools and Applications, vol.83, no.5, pp.13929-13951, 2024 (SCI-Expanded)
- IV. **Efficient congestion control in communications using novel weighted ensemble deep reinforcement learning**
Ali M. H., ÖZTÜRK S.
Computers and Electrical Engineering, vol.110, 2023 (SCI-Expanded)
- V. **A secret image sharing method based on block-wise cheating detection and recovery on shadow images**

- GÜL E., ÖZTÜRK S.
Computers and Electrical Engineering, vol.110, 2023 (SCI-Expanded)
- VI. **A Hybrid Method for Enhancement of Both Contrast Distorted and Low-Light Images**
Ozturk N., ÖZTÜRK S.
International Journal of Pattern Recognition and Artificial Intelligence, vol.37, no.8, 2023 (SCI-Expanded)
- VII. **A blind CT and DCT based robust color image watermarking method**
Saritas O. F., Öztürk S.
Multimedia Tools and Applications, vol.82, no.10, pp.15475-15491, 2023 (SCI-Expanded)
- VIII. **An accurate car counting in aerial images based on convolutional neural networks**
KILIÇ E., ÖZTÜRK S.
JOURNAL OF AMBIENT INTELLIGENCE AND HUMANIZED COMPUTING, vol.14, no.2, pp.1259-1268, 2023 (SCI-Expanded)
- IX. **A color channel multiplexing approach for robust discrete wavelet transform based image watermarking**
SARITAŞ Ö. F., ÖZTÜRK S.
Concurrency and Computation: Practice and Experience, vol.34, no.25, 2022 (SCI-Expanded)
- X. **A novel Frei-Chen based fragile watermarking method for authentication of an image**
Renkler A., ÖZTÜRK S.
CONCURRENCY AND COMPUTATION-PRACTICE & EXPERIENCE, vol.34, no.22, 2022 (SCI-Expanded)
- XI. **Automation Based Active Queue Management using Dynamic Genetic Algorithm in Real-Time Application**
Ali M. H., ÖZTÜRK S.
JOURNAL OF INFORMATION SCIENCE AND ENGINEERING, vol.37, no.6, pp.1313-1326, 2021 (SCI-Expanded)
- XII. **A new effective hybrid segmentation method based on C-V and LGDF**
Ozturk N., ÖZTÜRK S.
Signal, Image and Video Processing, vol.15, pp.1313-1321, 2021 (SCI-Expanded)
- XIII. **A novel pixel-wise authentication-based self-embedding fragile watermarking method**
GÜL E., ÖZTÜRK S.
Multimedia Systems, vol.27, pp.531-545, 2021 (SCI-Expanded)
- XIV. **A novel triple recovery information embedding approach for self-embedded digital image watermarking**
Gul E., Öztürk S.
MULTIMEDIA TOOLS AND APPLICATIONS, vol.79, pp.31239-31264, 2020 (SCI-Expanded)
- XV. **A novel hash function based fragile watermarking method for image integrity**
Gul E., ÖZTÜRK S.
MULTIMEDIA TOOLS AND APPLICATIONS, vol.78, no.13, pp.17701-17718, 2019 (SCI-Expanded)
- XVI. **A novel hybrid DCT and DWT based robust watermarking algorithm for color images**
Abdulrahman A. K., ÖZTÜRK S.
MULTIMEDIA TOOLS AND APPLICATIONS, vol.78, no.12, pp.17027-17049, 2019 (SCI-Expanded)
- XVII. **A subclass supported convolutional neural network for object detection and localization in remote-sensing images**
Kilic E., ÖZTÜRK S.
INTERNATIONAL JOURNAL OF REMOTE SENSING, vol.40, no.11, pp.4193-4212, 2019 (SCI-Expanded)
- XVIII. **Capacity limits in a variable duty cycle IEEE 802.11p-based VANET**
ÖZTÜRK S., Mistic J., Mistic V. B.
WIRELESS COMMUNICATIONS & MOBILE COMPUTING, vol.12, no.18, pp.1672-1684, 2012 (SCI-Expanded)
- XIX. **Performance of simple cognitive personal area networks with finite buffers and adaptive superframe duration**
Mistic J., Mistic V. B., ÖZTÜRK S.
WIRELESS COMMUNICATIONS & MOBILE COMPUTING, vol.11, no.12, pp.1668-1676, 2011 (SCI-Expanded)
- XX. **Reaching spatial or networking saturation in VANET**

Ozturk S., Mistic J., Mistic V. B.

EURASIP JOURNAL ON WIRELESS COMMUNICATIONS AND NETWORKING, pp.1-12, 2011 (SCI-Expanded)

XXI. Improving the performance of DCT-based fragile watermarking using intelligent optimization algorithms

ASLANTAŞ V., ÖZER Ş., ÖZTÜRK S.

OPTICS COMMUNICATIONS, vol.282, no.14, pp.2806-2817, 2009 (SCI-Expanded)

Articles Published in Other Journals

- I. **DEEP LEARNING BASED HYBRID MODELS FOR TUMOR DETECTION FROM BRAIN MR IMAGES**
Özcan İ., Öztürk S.
Kahramanmaraş Sütçü İmam Üniversitesi Mühendislik Bilimleri Dergisi, vol.26, no.3, pp.718-733, 2023 (Peer-Reviewed Journal)
- II. **A Novel Method for Forgery Detection on Lung Cancer Images**
Gurunlu B., Öztürk S.
INTERNATIONAL JOURNAL OF INFORMATION SECURITY SCIENCE, vol.11, no.3, pp.13-20, 2022 (Peer-Reviewed Journal)
- III. **A Novel Discrete Cosine Transform Based Self-embedded Fragile Watermarking Method For Image Authentication**
Renkler A., Öztürk S.
Erciyes Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.38, no.1, pp.12-20, 2022 (Peer-Reviewed Journal)
- IV. **Bölütleme Tabanlı Yeni Görüntü İyileştirme Yöntemi**
ÖZTÜRK N., ÖZTÜRK S.
European Journal of Science and Technology, vol.2021, no.32, pp.975-981, 2021 (Peer-Reviewed Journal)
- V. **İnsansız Hava Aracı Görüntülerinde Evrişimli Sinir Ağı Kullanarak Araç Sayımı için Yeni Bir Haritalama Yöntemi**
KILIÇ E., ÖZTÜRK S.
Erciyes Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.36, no.2, pp.170-177, 2020 (Peer-Reviewed Journal)
- VI. **Ön Eğitilmiş Evrişimli Sinir Ağları Destekli Görüntü Sahtecilik Tespiti Yöntemi**
GÜL E., ÖZTÜRK S.
Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.9, no.2, pp.705-714, 2020 (Peer-Reviewed Journal)
- VII. **Çoklu Görüntü Damgalama Yönteminde Farklı Frekans Bölgelerinin Değerlendirilmesi**
ABDULRAHMAN A. K., ÖZTÜRK S.
BİLİŞİM TEKNOLOJİLERİ DERGİSİ, vol.11, no.1, pp.75-88, 2018 (Peer-Reviewed Journal)
- VIII. **Yapay Arı Koloni Algoritması Kullanılarak Görüntü İyileştirme Yönteminin Geliştirilmesi**
ÖZTÜRK S., Öztürk N.
GAZİ ÜNİVERSİTESİ FEN BİLİMLERİ DERGİSİ PART: C TASARIM VE TEKNOLOJİ, vol.4, no.4, pp.173-183, 2016 (Peer-Reviewed Journal)
- IX. **Teknoloji Eğitimi ve Çoklu Ortam**
ÖZER Ş., ÖZTÜRK S.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGİSİ, vol.4, no.2, pp.39-44, 2001 (Peer-Reviewed Journal)
- X. **Teknoloji Eğitim ve Çoklu-Ortam**
ÖZER Ş., ÖZTÜRK S.
Gazi Üniversitesi Teknik Eğitim Fakültesi Politeknik Dergisi, pp.39-44, 2001 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **The MAC Layer of VANETs**

Campolo C., Molinaro A., Scopigno R., ÖZTÜRK S., MISIC J., MISIC V. B.
in: Vehicular ad hoc Networks, Campolo C., Molinaro A., Scopigno R. , Editor, Springer-Verlag , Switzerland, pp.83-122, 2015

II. The MAC Layer of VANETs

CAMPOLO C., MOLINARO A., SCOPIGNO R., ÖZTÜRK S., MISIC J., MISIC V. B.
in: Vehicular ad hoc Networks: Standards, Solutions, and Research, Campolo Claudia, Molinaro Antonella, Scopigno Riccardo, Editor, Springer, pp.83-122, 2015

Refereed Congress / Symposium Publications in Proceedings

- I. Tasarsız araçsal Ağlarda Performans Değerlendirmesi**
Renkler A., Öztürk S.
ART&DESIGN-2022, Kayseri, Turkey, 20 - 21 July 2022, pp.1299-1311
- II. Investigation of the Initialization Contour Effect in the Chan-Vese Method**
ÖZTÜRK N., ÖZTÜRK S.
International Conference on Advances in Engineering, Architecture, Science and Technology (ICAEAST 2021), Erzurum, Turkey, 15 - 17 December 2021
- III. Efficient Approach for Block-Based Copy-Move Forgery Detection**
GÜRÜNLÜ B., ÖZTÜRK S.
5th International Conference on Smart Trends in Computing and Communications, Las Vegas, United States Of America, 2 - 03 March 2021
- IV. Central Symmetric Local Binary Pattern Based Image Forgery Detection**
GÜRÜNLÜ B., ÖZTÜRK S.
5th International Artificial Intelligence and Data Processing Symposium (IDAP-2021), Malatya, Turkey, 11 September 2021, pp.288-294
- V. A Block Based Forgery Detection System on Biomedical Images**
GÜRÜNLÜ B., ÖZTÜRK S.
29th Signal Processing and Communications Applications Conference (SIU 2021), Turkey, 09 June 2021, pp.1-4
- VI. Evaluation of the Hash Value Size Effect used in Fragile Watermarking Methods on the Salt and Pepper Noise Adding Attack Detection**
GÜL E., ÖZTÜRK S.
29th Signal Processing and Communications Applications Conference (SIU 2021), İstanbul, Turkey, 9 - 11 June 2021
- VII. Görüntü İyileştirme ve Görüntü Onarma Teknikleri ile Yapılmış Uygulamalar**
MARAŞLI F., ÖZTÜRK S.
Second International Scientific and Vocational Studies Congress, Nevşehir, Turkey, 5 - 08 July 2018, pp.700-708
- VIII. Görüntü Bölütleme Yöntemlerinin Karşılaştırılması**
ÖZTÜRK N., ÖZTÜRK S.
2018 International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 28 - 30 September 2018, pp.1-4
- IX. A Survey on Image Forgery Detection Methods**
GÜRÜNLÜ B., ÖZTÜRK S.
The Third International Conference on Computational Mathematics and Engineering Sciences (CMES-2018), Girne, Cyprus (Kktc), 4 May - 06 April 2018, pp.91
- X. A Survey on Photo Forgery Detection Methods**
GÜRÜNLÜ B., ÖZTÜRK S.
ITM Web of Conferences CMES2018, 4 - 06 May 2018, vol.22, pp.1-5
- XI. Enhance Image Forgery Detection with Optimization Algorithms**
GÜRÜNLÜ B., ÖZTÜRK S.
The Third International Conference on Computational Mathematics and Engineering Sciences (CMES-2018), Girne,

Cyprus (Kktc), 4 - 06 May 2018, pp.90

- XII. **Kablosuz Ağlarda Yönlendirme Protokollerinin Karşılaştırılması**
Ahmed F., ÖZTÜRK S.
1st International Symposium on Multidisciplinary Studies and Innovative Technologies Proceedings (ISMSIT), 2017, Tokat, Turkey, 2 - 04 November 2017, pp.326-329
- XIII. **Ayrık kosinüs dönüşümü ve ayrık dalgacık dönüşümü tabanlı Çoklu resim damgalama yöntemi**
Abdulrahman A., ÖZTÜRK S.
2017 International Artificial Intelligence and Data Processing Symposium, IDAP 2017, Malatya, Turkey, 16 - 17 September 2017
- XIV. **Tasarsız ağlarda yönlendirme protokollerinin başarımlarının değerlendirilmesi**
Ahmed F., ÖZTÜRK S.
2017 International Artificial Intelligence and Data Processing Symposium, IDAP 2017, Malatya, Turkey, 16 - 17 September 2017
- XV. **Quantum Encryption in Wireless Network Technology**
Gürünlü B., ÖZTÜRK S.
The Second International Conference on Computational Mathematics and Engineering Sciences (CMES-2017), İstanbul, Turkey, 20 - 22 May 2017, pp.130
- XVI. **Farklı Önceliklere Sahip Genel Yayın Paketlerinin Tasarsız Araçsal Ağlarda Değerlendirilmesi**
ÖZTÜRK S., ÇELİK M., Gül E.
International Artificial Intelligence and Data Processing Symposium (IDAP'16), Malatya, Turkey, 17 - 18 September 2016, pp.153-157
- XVII. **Meme Kanseri Histoloji Görüntülerinde Evrişimli Sinir Ağları Kullanarak Mitoz Tespiti**
ÖZTÜRK S., KILIÇ E.
1st International Conference on Engineering Technology and Applied Sciences, Afyon, Turkey, 21 - 22 April 2016, pp.1-5
- XVIII. **Sera İklimlendirme Kontrolü İçin Etkin Bir Gömülü Sistem Tasarımı**
Öztürk N., ÖKDEM S., ÖZTÜRK S.
AB'14 XVI. Akademik Bilişim Konferansı, Mersin, Turkey, 5 - 07 February 2014, pp.1-7
- XIX. **Capacity Limits in a Variable Duty Cycle IEEE 802.11p-based VANET**
ÖZTÜRK S., MISIC J., MISIC V. B.
2012 8th International Wireless Communications and Mobile Computing Conference (IWCMC), Limassol, Cyprus, 27 - 31 August 2012, pp.425-430
- XX. **On non-saturation regime in IEEE 802.11p based VANET with mobile nodes**
ÖZTÜRK S., Misic J.
22nd IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), Toronto, Canada, 11 - 14 September 2011, pp.740-744
- XXI. **Video communications over IEEE 802.11p using single channel devices**
ÖZTÜRK S., Misic J., Misic V. B.
7th IEEE International Wireless Communications and Mobile Computing Conference (IWCMC), İstanbul, Turkey, 4 - 08 July 2011, pp.1238-1243
- XXII. **A Novel Image Watermarking Method Based on Discrete Cosine Transform using Genetic Algorithm**
ASLANTAŞ V., ÖZER Ş., Ozturk S.
IEEE 17th Signal Processing and Communications Applications Conference, Antalya, Turkey, 9 - 11 April 2009, pp.527-528
- XXIII. **A NOVEL FRAGILE WATERMARKING BASED ON PARTICLE SWARM OPTIMIZATION**
ASLANTAŞ V., ÖZER Ş., ÖZTÜRK S.
IEEE International Conference on Multimedia and Expo (ICME 2008), Hannover, Germany, 23 - 26 June 2008, pp.269-270
- XXIV. **DWT-SVD BASED IMAGE WATERMARKING USING PARTICLE SWARM OPTIMIZER**
ASLANTAŞ V., DOĞAN A., ÖZTÜRK S.
IEEE International Conference on Multimedia and Expo (ICME 2008), Hannover, Germany, 23 - 26 June 2008,

pp.241-244

- XXV. **A novel clonal selection algorithm based fragile watermarking method**
Aslantas V., ÖZER Ş., Ozturk S.
6th International Conference on Artificial Immune Systems, Santos, Brazil, 26 - 29 August 2007, vol.4628, pp.358-359
- XXVI. **Tekil Değer Çıkarma Tabanlı Resim Damgalama Tekniklerinin Karşılaştırılması**
ASLANTAŞ V., ÖZER Ş., ÖZTÜRK S.
ELECO'2006, Bursa, Turkey, 6 - 10 December 2006, pp.312-316
- XXVII. **Yapay Sinir Ağları Temelli Otomatik Odaklama Netlik Foksiyonu**
ÖZER Ş., ASLANTAŞ V., ÖZTÜRK S.
4 Th International Advanced Technologies Symposium, Konya, Turkey, 28 - 30 September 2005, pp.203-208
- XXVIII. **Yapay Sinir Ağları Temelli Otomatik Odaklama Netlik Fonksiyonu**
ÖZER Ş., ASLANTAŞ V., ÖZTÜRK S.
4. Uluslar arası İleri Teknolojiler Sempozyumu, Konya, Turkey, 28 - 30 September 2005
- XXIX. **An artificial neural network based image sharpness criterion Yapay sinir ağlan temelli resim netlik kistasi**
ASLANTAŞ V., ÖZER Ş., ÖZTÜRK S.
IEEE 13th Signal Processing and Communications Applications Conference, SIU 2005, Kayseri, Turkey, 16 - 18 May 2005, vol.2005, pp.617-620
- XXX. **Yapay Sinir Ağları Temelli Resim Netlik Kistası**
ASLANTAŞ V., ÖZER Ş., ÖZTÜRK S.
IEEE 13. Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SİU-2005), Kayseri, Turkey, 16 - 18 May 2005, pp.1
- XXXI. **Resim Netliğinin Yapay Sinir Ağları Kullanılarak Ölçümü**
ASLANTAŞ V., ÖZER Ş., ÖZTÜRK S.
Proceedings of the International XII. Turkish Symposium on Artificial Intelligence and Neural Networks (TAINN'2003), Çanakkale, Turkey, 2 - 04 July 2003, pp.176
- XXXII. **OTOMATİK ODAKLAMADA KULLANILAN KISTAS FONKSİYONLARININ KARŞILAŞTIRILMASI**
ASLANTAŞ V., ÖZER Ş., ÖZTÜRK S.
ELECO'2002, Bursa, Turkey, 18 - 22 December 2002, pp.348-352
- XXXIII. **Otomatik Odaklamada Kullanılan Kistas Fonksiyonlarının Karşılaştırılması**
ASLANTAŞ V., ÖZER Ş., ÖZTÜRK S.
Elektrik, Elektronik ve Bilgisayar Mühendisliği Sempozyumu ve Fuarı, Bursa, Turkey, 18 - 22 December 2002, pp.384-352
- XXXIV. **Eğitim Alanında Bilgisayar İletişim Uygulamaları ve Teknik Gelişmeler**
ÇİFLİKLİ C., ALKAN M., ÖZTÜRK S.
6. TÜRKİYE'DE İNTERNET KONFERANSI, INET TR 2000, İstanbul, Turkey, 9 - 11 November 2000, pp.1-8

Supported Projects

ÖZTÜRK S., KILIÇ E., Project Supported by Higher Education Institutions, Uzaktan Algılama Görüntülerinde Nesne Tespiti ve Sayımı için Evrişimli Sinir Ağları Tabanlı Yeni Modellerin Geliştirilmesi, 2018 - 2024
ÖZTÜRK S., ÇELİK M., TUBITAK Project, Zeki Araçsal Ağ Sisteminin Tasarımı Ve Yönetimi, 2014 - 2016
ASLANTAŞ V., TUNÇKANAT M., ÖZTÜRK S., Project Supported by Higher Education Institutions, GÖRÜNTÜLÜ İŞLEME VE YAPAY ZEKA TEKNİKLERİ KULLANARAK DERİ ÜZERİNDEKİ YARALARIN ANALİZİ, 2005 - 2007

Metrics

Publication: 67

Citation (WoS): 170

Citation (Scopus): 146

H-Index (WoS): 7

H-Index (Scopus): 5