

## Assoc. Prof. SERKAN ÖZTÜRK

### Personal Information

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### International Researcher IDs

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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. **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)
- II. **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)
- III. **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)
- IV. **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)
- V. **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)
- VI. **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)
- VII. **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, 2023 (SCI-Expanded)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **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)
- XVII. **Capacity limits in a variable duty cycle IEEE 802.11p-based VANET**  
ÖZTÜRK S., Misić J., Misić V. B.  
WIRELESS COMMUNICATIONS & MOBILE COMPUTING, vol.12, no.18, pp.1672-1684, 2012 (SCI-Expanded)
- XVIII. **Performance of simple cognitive personal area networks with finite buffers and adaptive superframe duration**  
Misić J., Misić V. B., ÖZTÜRK S.  
WIRELESS COMMUNICATIONS & MOBILE COMPUTING, vol.11, no.12, pp.1668-1676, 2011 (SCI-Expanded)
- XIX. **Reaching spatial or networking saturation in VANET**  
Ozturk S., Misić J., Misić V. B.  
EURASIP JOURNAL ON WIRELESS COMMUNICATIONS AND NETWORKING, pp.1-12, 2011 (SCI-Expanded)
- XX. **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.  
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- IX. **Teknoloji Eğitimi ve Çoklu Ortam**  
ÖZER Ş., ÖZTÜRK S.  
JOURNAL OF POLYTECHNIC-POLİTEKNİK 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., Scapigno R., ÖZTÜRK S., MISIC J., MISIC V. B.  
in: Vehicular ad hoc Networks, Campolo C., Molinaro A., Scapigno 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 (Kkct), 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 (Kkct), 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 ayrik dalgacik 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 ağları 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 Kıstası**  
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 Kıstas 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, İNET TR 2000, İstanbul, Turkey, 9 - 11 November 2000, pp.1-8

## Supported Projects

ÖZTÜRK S., KILIÇ E., Project Supported by Higher Education Institutions, Derin Öğrenme Teknikleri ile Nesne Tanıma Yöntemlerinin Geliştirilmesi, 2018 - Continues

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: 66

Citation (WoS): 170

Citation (Scopus): 144

H-Index (WoS): 7

H-Index (Scopus): 5