

Prof. TUĞRUL ÇAVDAR

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAJ-8028-2021

ScopusID: 23011498000

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Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Elektronik Mühendisliği Anabilim Dalı, Turkey 1997 - 2003

Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Elektronik Mühendisliği Anabilim Dalı, Turkey 1994 - 1997

Undergraduate, Karadeniz Technical University, Mühendislik - Mimarlık Fakültesi, Elektronik Mühendisliği Bölümü, Turkey 1990 - 1994

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Education Management and Planning, Proje Yazma Eğitimi, KTÜ, 2014

Education Management and Planning, Proje Yazma Eğitimi, TÜBİTAK ARBİS, 2014

Education Management and Planning, ABB Robot Kolu, ABB, 2010

Dissertations

Doctorate, YENİ BİR ARDIŞIK DİZİ KESTİRİM ALGORİTMASI VE FREKANS SEÇİCİ KANALLARDA BAŞARIMININ İNCELENMESİ, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Elektronik Mühendisliği Anabilim Dalı, 2003

Postgraduate, Bir Robot Kolumun Tasarımı, Gerçeklenmesi, Kontrolü ve Modellenmesi, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Elektronik Mühendisliği Anabilim Dalı, 1997

Research Areas

Wireless Communication, Quantum Communication, Robotics and Mechatronics Systems, Humanoid Robots, Quantum

Cryptography, Computer Networks, Communications and Network Protocols, Quantum Mechanics, Fields Theory and Relativity

Academic Titles / Tasks

Professor, Karadeniz Technical University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2024 - Continues
Associate Professor, Karadeniz Technical University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2018 - 2024
Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2007 - 2018
Assistant Professor, Northeastern University, Engineering, Electrical & Computer Engineering, 2012 - 2013
Lecturer PhD, Karadeniz Technical University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2005 - 2007
Research Assistant PhD, Karadeniz Technical University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2003 - 2005
Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 1994 - 2003

Academic and Administrative Experience

Karadeniz Technical University, 2013 - Continues
Karadeniz Technical University, 2012 - Continues
Karadeniz Technical University, 2010 - Continues
Karadeniz Technical University, 2009 - 2012

Courses

Doctorate

Kablosuz İletişim, Doctorate, 2019 - 2020
Kablosuz Gezgin Ağlar, Doctorate, 2015 - 2016

Undergraduate

Elektronik Devreler, Undergraduate, 2019 - 2020
Robot Teknolojisi, Undergraduate, 2019 - 2020

Supervised Theses

Çavdar T., Endüstriyel nesnelerin internetinde derin öğrenme ve dempster shafer teorisine dayalı karar verme, Doctorate, N.EBRAHIMPOUR(Student), 2022
Çavdar T., Anchor node placement with optimization methods for localization of nodes in large-scale mobile wireless sensor networks, Doctorate, F.Baturalp(Student), 2021
ÇAVDAR T., Signature-based and energy-efficient device discovery protocol between the internet of things and relay devices in cellular networks, Doctorate, M.Talha(Student), 2021
ÇAVDAR T., Design of A Novel Hybrid Multi-Path Routing Method for Cognitive Radio Ad Hoc Networks, Doctorate, E.Güler(Student), 2018
ÇAVDAR T., A Novel Spectrum Management Model Based on Multi Criteria Decision Making Methods in Cognitive Radio Networks, Doctorate, Z.Sadreddini(Student), 2018
ÇAVDAR T., Dynamic Web Cache Replacement Algorithm and Optimal Placement of Web Cache Server, Postgraduate, M.Edris(Student), 2017
ÇAVDAR T., Proposing a Novel General Purposed Architectural Model for the Internet of Things, Postgraduate, E.Öztürk(Student), 2017
ÇAVDAR T., Bir Uzabulunum Robotun Tasarımı ve Gerçeklenmesi, Postgraduate, Ş.Demir(Student), 2016
ÇAVDAR T., Kablosuz Duyarga ve Aktör Ağları Yardımıyla Karasal Filoların İnsansız Denetimi, Postgraduate, F.Baturalp(Student), 2015

Jury Memberships

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Giresun Üniversitesi, February, 2023

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Tarsus Üniversitesi, January, 2023

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Avrasya Üniversitesi, December, 2022

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Erzincan Binali Yıldırım Üniversitesi, February, 2022

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Tarsus Üniversitesi, February, 2022

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Erzincan Binali Yıldırım Üniversitesi, February, 2022

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Recep Tayyip Erdoğan Üniversitesi, November, 2021

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, August, 2020

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Giresun Üniversitesi, February, 2020

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Giresun Üniversitesi, January, 2020

Doctorate, Doctorate, Fırat Üniversitesi, December, 2019

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, May, 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Optimization of mixture ratios of raw materials in thermoplastic hybrid composites based on particle swarm optimization algorithm**
Ozturk E., DÖNMEZ ÇAVDAR A., ÇAVDAR T.
JOURNAL OF SUPERCOMPUTING, vol.81, no.1, 2025 (SCI-Expanded)
- II. **Artificial Intelligence Applications in Composites: A Survey**
Öztürk E., DÖNMEZ ÇAVDAR A., ÇAVDAR T.
ARCHIVES OF COMPUTATIONAL METHODS IN ENGINEERING, 2024 (SCI-Expanded)
- III. **A Framework for Elephant Flow Detection for SDNs Based on the Classification**
Çavdar T., Aymaz Ş., Aymaz S.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.49, no.3, pp.4243-4252, 2024 (SCI-Expanded)
- IV. **Decision-making for the anomalies in IIoTs based on 1D convolutional neural networks and Dempster–Shafer theory (DS-1DCNN)**
ÇAVDAR T., Ebrahimpour N., Kakız M. T., GÜNAY F. B.
Journal of Supercomputing, vol.79, no.2, pp.1683-1704, 2023 (SCI-Expanded)
- V. **Efficient Routing by Detecting Elephant Flows with Deep Learning Method in SDN**
AYMAZ Ş., ÇAVDAR T.
ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING, vol.23, no.3, pp.57-66, 2023 (SCI-Expanded)
- VI. **New approach to dynamic load balancing in software-defined network-based data centers**
Çavdar T., Aymaz Ş.
ETRI JOURNAL, vol.45, no.3, pp.433-447, 2023 (SCI-Expanded)
- VII. **An Optimal Anchor Placement Method for Localization in Large-Scale Wireless Sensor Networks**
ÇAVDAR T., GÜNAY F. B., Ebrahimpour N., Kakız M. T.
INTELLIGENT AUTOMATION AND SOFT COMPUTING, vol.31, no.2, pp.1197-1222, 2022 (SCI-Expanded)
- VIII. **SERDP: Signature-based and energy-efficient relay discovery protocol for Internet of Things in**

cellular networks

Cavdar T., Kakiz M. T., Gunay F. B., Ebrahimpour N.

INTERNATIONAL JOURNAL OF COMMUNICATION SYSTEMS, vol.34, no.12, 2021 (SCI-Expanded)

- IX. **Vehicular Ad Hoc Network (VANET) Localization Techniques: A Survey**
GÜNAY F. B., ÖZTÜRK E., ÇAVDAR T., Hanay Y. S., Khan A. u. R.
ARCHIVES OF COMPUTATIONAL METHODS IN ENGINEERING, vol.28, no.4, pp.3001-3033, 2021 (SCI-Expanded)
- X. **Decision-making for small industrial Internet of Things using decision fusion**
ÇAVDAR T., Ebrahimpour N.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.27, no.6, pp.4134-4150, 2019 (SCI-Expanded)
- XI. **HyMPRO: a hybrid multi-path routing algorithm for cognitive radio ad hoc networks**
ÇAVDAR T., Guler E.
TELECOMMUNICATION SYSTEMS, vol.69, no.1, pp.61-76, 2018 (SCI-Expanded)
- XII. **Pre-reservation based spectrum allocation for cognitive radio network**
ÇAVDAR T., Sadreddini Z., Guler E.
TELECOMMUNICATION SYSTEMS, vol.68, no.4, pp.723-743, 2018 (SCI-Expanded)
- XIII. **Dynamic Resource Sharing in 5G with LSA: Criteria-Based Management Framework**
Sadreddini Z., Masek P., ÇAVDAR T., Ometov A., Hosek J., Gudkova I., Andreev S.
WIRELESS COMMUNICATIONS & MOBILE COMPUTING, 2018 (SCI-Expanded)
- XIV. **Threshold-based negotiation framework for grid resource allocation**
ÇAVDAR T., Kakiz M. T.
IET COMMUNICATIONS, vol.11, no.14, pp.2236-2243, 2017 (SCI-Expanded)
- XV. **PSO tuned ANFIS equalizer based on fuzzy C-means clustering algorithm**
ÇAVDAR T.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.70, no.6, pp.799-807, 2016 (SCI-Expanded)
- XVI. **Instant overbooking framework for cognitive radio networks**
ÇAVDAR T., Guler E., Sadreddini Z.
COMPUTER NETWORKS, vol.76, pp.227-241, 2015 (SCI-Expanded)
- XVII. **A new heuristic approach for inverse kinematics of robot arms**
ÇAVDAR T., Mohammad M., Milani R. A.
Advanced Science Letters, vol.19, no.1, pp.329-333, 2013 (SCI-Expanded)
- XVIII. **A new multipath channel transformation technique**
Cavdar T.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.20, no.5, pp.679-694, 2012 (SCI-Expanded)
- XIX. **Application of Sequential Estimation Algorithm Based on Branch Metric to Frequency-Selective Channel Equalization**
ÇAVDAR T., GANGAL A.
WIRELESS PERSONAL COMMUNICATIONS, vol.55, no.4, pp.655-664, 2010 (SCI-Expanded)
- XX. **A new sequential decoding algorithm based on branch metric**
ÇAVDAR T., GANGAL A.
WIRELESS PERSONAL COMMUNICATIONS, vol.43, no.4, pp.1093-1100, 2007 (SCI-Expanded)

Articles Published in Other Journals

- I. **A Quantum Machine Learning Approach for Detecting User Locations**

GÜLER E., KAKIZ M. T., ÇAVDAR T., GÜNAY F. B., ŞANAL B.

Journal of Millimeterwave Communication, Optimization and Modelling, vol.3, no.1, pp.1-8, 2023 (Peer-Reviewed Journal)

- II. **Kapalı Mekân Ortamında 1D-CNN Kullanarak Yapılan Doluluk Tespiti Sınıflandırması**
GÜLER E., KAKIZ M. T., GÜNAY F. B., ŞANAL B., ÇAVDAR T.
Karadeniz Fen Bilimleri Dergisi, vol.13, no.1, pp.60-71, 2023 (Peer-Reviewed Journal)
- III. **Termoplastik Hibrit Kompozitlerde Hammadde Karışım Oranı Optimizasyonu için Gri Kurt Algoritmasının Kullanılması**
ÇAVDAR T., ÖZTÜRK E.
Karadeniz Fen Bilimleri Dergisi, vol.12, pp.749-762, 2022 (Peer-Reviewed Journal)
- IV. **Trajectory Planning for Point-to-Point Motion Using High-order Polynomials**
Barghi Jond H., NABIYEV V., ÇAVDAR T.
Majlesi Journal of Electrical Engineering, vol.14, no.1, 2020 (Scopus)
- V. **Creating an Optimal Ad Hoc Network in Internet of Vehicles with Artificial Neural Networks**
ÖZTÜRK E., ULU A., ÇAVDAR T.
International Journal of 3D Printing Technologies and Digital Industry, vol.3, pp.254-260, 2019 (Peer-Reviewed Journal)
- VI. **Applications of Intermittently Connected Delay Tolerant Wireless Sensor Networks (ICDT-WSNs) – A Survey**
Ebrahimpour N., ÖZTÜRK E., ÇAVDAR T.
International Journal of 3D Printing Technologies and Digital Industry, vol.3, no.3, pp.261-268, 2019 (Peer-Reviewed Journal)
- VII. **Prevent the Transmission of Useless Repeated Data to the Network in Internet of Things**
ÖZTÜRK E., ULU A., ÇAVDAR T.
Turkish Journal of Engineering, vol.3, no.1, pp.39-42, 2019 (Peer-Reviewed Journal)
- VIII. **Prevent the Transmission of Useless Repeated Data to the Network in Internet of Things**
Öztürk E., Ulu A., Çavdar T.
Turkish Journal of Engineering, vol.3, no.1, pp.39-42, 2019 (Peer-Reviewed Journal)
- IX. **On the Performance of Spectrum Handoff Framework for Next-generation 5G Networks**
Masek P., Sadreddini Z., ÇAVDAR T., Hosek J.
INFOCOMMUNICATIONS JOURNAL, vol.9, no.4, pp.7-14, 2017 (ESCI)
- X. **QoS-Driven Pricing Policy for Cognitive Radio Networks**
ÇAVDAR T., SADREDDINI Z.
SAÜ Fen Bilimleri Enstitüsü Dergisi, vol.21, no.4, pp.637-642, 2017 (Peer-Reviewed Journal)
- XI. **Nesnelerin interneti için yeni bir mimari tasarımı**
ÇAVDAR T., ÖZTÜRK E.
Sakarya University Journal of Science, vol.22, no.1, pp.39-48, 2017 (Peer-Reviewed Journal)
- XII. **Android ve Web Tabanlı Latin – Göktürk Yazı Sistemi Dönüştürücü Yazılımı**
ÇAVDAR T.
Fırat Üniversitesi Mühendislik Bilimleri Dergisi, vol.29, no.1, pp.331-340, 2017 (Peer-Reviewed Journal)
- XIII. **Bir Robot Kolunun Tasarımı, Gerçeklenmesi, Denetimi ve Modellenmesi**
ÇAVDAR T.
Endüstri & Otomasyon, no.125, pp.26-32, 2007 (Peer-Reviewed Journal)

Papers Published in Refereed Scientific Meetings

- I. **Binary Classification with Variational Quantum Circuit**
KAKIZ M. T., GÜLER E., ÇAVDAR T., ŞANAL B.
Innovations in Intelligent Systems and Applications Conference (ASYU 2023), 31 July - 01 August 2023
- II. **A Quantum Machine Learning Approach for Detecting User Locations**
GÜLER E., KAKIZ M. T., ÇAVDAR T., GÜNAY F. B., ŞANAL B.
International Conference on Cyber Security and Computer Science - 2023 (ICONCS'23), Karabük, Turkey, 02 May 2023

- III. **İki Kübitlik Parametrelili Kuantum Devrelerinin Performans Analizi**
GÜLER E., KAKIZ M. T., ÇAVDAR T., ŞANAL B., GÜNAY F. B.
16. Ulusal Yazılım Mühendisliği Sempozyumu (UYMS'22), Erzurum, Turkey, 27 February 2023
- IV. **Optimization of Hybrid Thermoplastic Composite Production via Artificial Intelligence Approach**
Öztürk E., Dönmez Çavdar A., Çavdar T., Mengeloğlu F.
Automotive Composites Conference and Exhibition, Michigan, United States Of America, 02 November 2021
- V. **Yusufçuk Algoritması ile Termoplastik Hibrit Kompozitlerin Üretiminde Katkı Maddeleri Oranlarının Optimizasyonu**
Öztürk E., Dönmez Çavdar A., Çavdar T.
1. Uluslararası Yapay Zeka ve Veri Bilimi Kongresi, İzmir, Turkey, 26 November 2021, pp.318-324
- VI. **Optimization of Ratio of Components in Hybrid Thermoplastic Composite Production Via Dragonfly Algorithm**
ÖZTÜRK E., DÖNMEZ ÇAVDAR A., ÇAVDAR T.
The 1st International Congress on Artificial Intelligence and Data Science (ICADA 2021), İzmir, Turkey, 26 November 2021
- VII. **A Survey on The Future of Communication Technologies: IoT, 6G, 7G and Beyond**
Öztürk E., Çavdar T.
1st International Conference on Electrical- Electronics and Computer Engineering (ICEECE 2021), Trabzon, Turkey, 24 - 25 July 2021, no.7, pp.64-69
- VIII. **Load Balancing with a New Approach for Dynamic Server Selection in Software Defined Network**
AYMAZ Ş., ÇAVDAR T., Aymaz S.
The 1st International Conference on Electrical-Electronics and Computer Engineering (ICEECE 2021), Trabzon, Turkey, 24 - 25 July 2021
- IX. **Authentication In Software Defined IoT Networks**
Aydın H., ÇAVDAR T., Dehghan P.
SIU 2020 The 28th IEEE Conference on Signal Processing and Communications Applications, Gaziantep, Turkey, 5 - 07 October 2020
- X. **Creating an Optimal Ad Hoc Network in Internet of Vehicles with Artificial Neural Networks**
ÖZTÜRK E., ULU A., ÇAVDAR T.
4th International Congress On 3D Printing (Additive Manufacturing) Technologies and Digital Industry, Antalya, Turkey, 11 - 14 April 2019
- XI. **Applications of Intermittently Connected Delay Tolerant Wireless Sensor Networks (ICDT-WSNs) – A Survey**
Ebrahimpour N., ÖZTÜRK E., ÇAVDAR T.
4th International Congress On 3D Printing (Additive Manufacturing) Technologies and Digital Industry, Antalya, Turkey, 11 - 14 April 2019
- XII. **Designing an IOT Based System for Indoor Detection and Mapping of Harmful Gases**
GÜNAY F. B., ÖZTÜRK E., ÇAVDAR T.
International Artvin Symposium'18 (IAS'18), Artvin, Turkey, 18 - 20 October 2018
- XIII. **Optimization of the Sensor Nodes in IoT via Simulated Annealing and Genetic Algorithms**
ÖZTÜRK E., GÜNAY F. B., ULU A., ÇAVDAR T.
International Artvin Symposium'18 (IAS'18), Artvin, Turkey, 18 - 20 October 2018
- XIV. **A Novel Trend in Information Technologies: IoT and Industry 4.0**
ÖZTÜRK E., ULU A., ÇAVDAR T.
International Artvin Symposium'18 (IAS'18), Artvin, Turkey, 18 - 20 October 2018
- XV. **A Novel Approach to Increase the Quality of Composite Materials via Artificial Neural Networks**
DÖNMEZ ÇAVDAR A., ÖZTÜRK E., ÇAVDAR T.
International Artificial Intelligence and Data Processing Symposium '18 (IDAP'18), Malatya, Turkey, 28 - 30 September 2018
- XVI. **Performance Analysis of Licensed Shared Access Based Secondary Users Activity on Cognitive Radio Networks**

- SADREDDINI Z., AYDOĞDU Ö., GÜNAY F. B., ÇAVDAR T.
EBBT 2018, İstanbul, Turkey, 18 - 19 April 2018
- XVII. **Lisanslı Paylaşım Erişime Dayalı İkincil Kullanıcı Faaliyetinin Bilişsel Radyo Ağlarında Performans Analizi**
SADREDDINI Z., AYDOĞDU Ö., ÇAVDAR T., GÜNAY F. B.
Elektrik-Elektronik, Bilgisayar, Biyomedikal Mühendislikleri Bilimsel Toplantısı (EBBT'2018), İstanbul, Turkey, 18 - 19 April 2018
- XVIII. **A Novel Approach to Determine the Amount of Natural Fiber and Polymer of Composite Materials via Artificial Neural Networks**
DÖNMEZ ÇAVDAR A., ÖZTÜRK E., ÇAVDAR T.
International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 28 - 30 September 2018
- XIX. **An Analysis of Load Balancing Strategies with Wireshark in Software Defined Networks**
AYMAZ Ş., ÇAVDAR T., Aymaz S., ÖZTÜRK E.
International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 28 - 30 September 2018
- XX. **Optimization of the Traffic Lights Based on Density of Vehicles**
ÖZTÜRK E., GÜNAY F. B., ÇAVDAR T.
8th International Advanced Technologies Symposium (IATS17), Elazığ, Turkey, 19 - 21 October 2017, pp.1988-1992
- XXI. **Network Slicing on 5G Mobile Networks: A Review, Research Issues and Challenges**
KAKIZ M. T., ÖZTÜRK E., ÇAVDAR T.
8th International Advanced Technologies Symposium (IATS17), Elazığ, Turkey, 19 - 21 October 2017, pp.1993-1999
- XXII. **Designing an Early Warning System for Avalanches Using Wireless Sensor Networks**
GÜNAY F. B., KAKIZ M. T., ÇAVDAR T.
8th International Advanced Technologies Symposium (IATS17), Elazığ, Turkey, 19 - 21 October 2017, pp.2193-2197
- XXIII. **Route Determination For Fire Evacuation Based On Artificial Bee Colony Algorithm**
Bekar B., Ocak Ü., ÇAVDAR T.
8th International Advanced Technologies Symposium (IATS17), Elazığ, Turkey, 19 - 21 October 2017, pp.2078-2084
- XXIV. **Designing Moving Leds to Save Energy Using Wireless Sensor Networks**
GÜNAY F. B., ÖZTÜRK E., ÇAVDAR T.
8th International Advanced Technologies Symposium (IATS17), Elazığ, Turkey, 19 - 21 October 2017, pp.2198-2201
- XXV. **The Economical Importance and Contribution of Information Technologies to Rural and Regional Development: An Empirical Analysis**
ÖZTÜRK E., KAKIZ M. T., ÇAVDAR T.
4th International Regional Development Conference (IRDC'xx17), Tunceli, Turkey, 21 - 23 September 2017, pp.684-690
- XXVI. **Dynamic Spectrum Handoff with LSA Framework for Next-generation (5G) Systems**
SADREDDINI Z., MASEK P., HOSEK J., ÇAVDAR T.
Haberleşme Teknolojileri ve Uygulama Çalıştayı, İstanbul, Turkey, 01 August 2017
- XXVII. **Enhanced Web Cache Replacement Policy Based on Data Mining and RFSD Scoring**
Rajaby M. E., ÇAVDAR T.
2nd World Conference on Technology, Innovation and Entrepreneurship, İstanbul, Turkey, 12 - 14 May 2017, vol.5, pp.293-298
- XXVIII. **Dynamic Decision-Based Spectrum Sharing Framework for Next-generation (5G) Systems**
Sadreddini Z., Masek P., ÇAVDAR T., Hosek J., Guler E.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017

- XXIX. **Performance Analysis of Dynamic Spectrum Management in Cognitive Radio Networks**
Sadreddini Z., ÇAVDAR T.
Scientific Meeting on Electric Electronics, Computer Science, Biomedical Engineerings (EBBT), İstanbul, Turkey, 20 - 21 April 2017
- XXX. **Modeling of Spectrum Handoff in 3GPP LTE-A Indoor Deployment**
Masek P., Sadreddini Z., ÇAVDAR T., Hosek J.
40th International Conference on Telecommunications and Signal Processing (TSP), Barcelona, Spain, 5 - 07 July 2017, pp.204-207
- XXXI. **A Novel SDN-Based IoT Architecture for Big Data**
Kakiz M. T., ÖZTÜRK E., ÇAVDAR T.
2017 International Artificial Intelligence and Data Processing Symposium (IDAP), Malatya, Turkey, 16 - 17 September 2017
- XXXII. **Dynamic User-centric Spectrum Handoff in 5G Systems: Optimized Criteria Based Resource Management Framework**
Masek P., Sadreddini Z., ÇAVDAR T., Hosek J.
9th International Congress on Ultra Modern Telecommunications and Control Systems (ICUMT), Munich, Germany, 6 - 08 November 2017, pp.167-172
- XXXIII. **Fire Evacuation Route Determination based on Particle Swarm Optimization**
AYMAZ Ş., ÇAVDAR T., DÖNMEZ ÇAVDAR A.
2017 International Artificial Intelligence and Data Processing Symposium (IDAP), Malatya, Turkey, 16 - 17 September 2017
- XXXIV. **Uzabulunum Robotlarda Konum Tespiti**
ÇAVDAR T., AYMAZ Ş., AYMAZ S.
2016 Otomatik Kontrol Ulusal Toplantısı TOK'2016, Eskişehir, Turkey, 29 September - 01 October 2016
- XXXV. **General Resource Management via Several Message Criteria in Vehicular Delay Tolerant Networks**
Sadreddini Z., ÇAVDAR T.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.289-292
- XXXVI. **Performance Analysis of the Dynamic Switch System Based on User Activity in Cognitive Radio Network**
Sadreddini Z., ÇAVDAR T., Guler E.
39th International Conference on Telecommunications and Signal Processing (TSP), Vienna, Austria, 27 - 29 June 2016, pp.145-148
- XXXVII. **Ultrasonic Assistive Headset for Visually Impaired People**
AYMAZ Ş., ÇAVDAR T.
39th International Conference on Telecommunications and Signal Processing (TSP), Vienna, Austria, 27 - 29 June 2016, pp.388-391
- XXXVIII. **A Distance Measurement Method Using Single Camera For Indoor Environments**
Sadreddini Z., ÇAVDAR T., Jond H. B.
39th International Conference on Telecommunications and Signal Processing (TSP), Vienna, Austria, 27 - 29 June 2016, pp.462-465
- XXXIX. **Farklı Kullanıcı Türleri İçin Akıllı Ev Tasarımları Ve Teknolojilerinin Sınıflandırılması**
DÖNMEZ ÇAVDAR A., ÇAVDAR T., KULAK F., TORUN A.
I. Ulusal İç Mimari Tasarım Sempozyumu, Trabzon, Turkey, 12 - 13 November 2015
- XL. **Bir Uzabulum (Telepresence) Robotun Tasarımı ve Gerçeklenmesi**
ÇAVDAR T., AYMAZ Ş.
Mühendislikte Yeni Teknolojiler Sempozyumu (MYT 2015), Bayburt, Turkey, 22 - 24 October 2015
- XLI. **Kablosuz Algılayıcı Ağlarla Müze Ziyaretçisi Lokalizasyon Modeli**
GÜNAY F. B., ÇAVDAR T.
2. Ulusal Yönetim Bilişim Sistemleri Kongresi (YBS 2015), Erzurum, Turkey, 8 - 10 October 2015
- XLII. **Unmanned Mobile Fleet Application with Sensor Networks**

- GÜNAY F. B., ÇAVDAR T.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.1821-1824
- XLIII. **Multi-Path Route Discovery Algorithm for Cognitive Radio Ad Hoc Networks Using Algebraic Connectivity**
Guler E., Sadreddini Z., ÇAVDAR T.
38th International Conference on Telecommunications and Signal Processing (TSP), Prague, Czech Republic, 9 - 11 July 2015, pp.54-59
- XLIV. **PSO-optimized Instant Overbooking Framework for Cognitive Radio Networks**
Sadreddini Z., Guler E., ÇAVDAR T.
38th International Conference on Telecommunications and Signal Processing (TSP), Prague, Czech Republic, 9 - 11 July 2015, pp.49-53
- XLV. **Mobile Fleet Localization Model via RSSI, TOA and TDOA in Wireless Sensor Networks**
GÜNAY F. B., ÇAVDAR T.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.1431-1434
- XLVI. **Particle Swarm Optimization - Based Determination of Ziegler-Nichols Parameters for PID Controller of Brushless DC Motors**
Alavi Milani M. M. R., ÇAVDAR T., Faryad Aghjehkand V.
2012 International Symposium on Innovations in Intelligent Systems and Applications, Trabzon, Turkey, Turkey, 2 - 04 July 2012
- XLVII. **Performance Analysis of Spectrum Utilization in Cognitive Radio Networks by Using Penalty Function Based Genetic Algorithm**
İmamoğlu M. B., ÇAVDAR T.
2nd World Conference on Information Technology (WCIT 2011), Antalya, Turkey, 24 - 27 November 2011, pp.250-255
- XLVIII. **Performance Analysis of Spectrum Utilization in Cognitive Radio Networks by Using Penalty Function - Based Genetic Algorithm**
İMAMOĞLU M. B., ÇAVDAR T.
2nd World Conference on Information Technology, Antalya, Turkey, 22 November 2011
- XLIX. **A Novel Approach Based on Genetic Algorithm to Solve Spectrum Allocation Problem in Cognitive Radio Networks**
ÇAVDAR T., İmamoğlu M. B.
6th International Advanced Technologies Symposium (IATS'11), Elazığ, Turkey, 16 - 18 May 2011, pp.127-130
- L. **Kavramsal Radyo Ağlarında Tayf Tahsisi Probleminin Çözümü için Genetik Algoritma Tabanlı Yeni Bir Yaklaşım**
ÇAVDAR T., İMAMOĞLU M. B.
6th International Advanced Technologies Symposium, Elazığ, Turkey, 16 May 2011
- LI. **POISSON DENKLEMNE BAĞLI RENKLİ İMGE DÜZENLEME**
DİZDAROĞLU B., ÇAVDAR T.
5. Uluslararası İleri Teknolojiler Sempozyumu (IATS'09), Karabük, Turkey, 13 - 15 May 2009
- LII. **BİR EKTRAN KARTININ TASARIMI VE GERÇEKLENMESİ**
ÇAVDAR T., DİZDAROĞLU B.
5. Uluslararası İleri Teknolojiler Sempozyumu (IATS'09), Karabük, Turkey, 13 - 15 May 2009
- LIII. **Poisson Denklemine Bağlı Renkli İmge Düzenleme**
DİZDAROĞLU B., ÇAVDAR T.
5. Uluslararası İleri Teknolojiler Sempozyumu (IATS'09), Karabük, Turkey, 13 May - 15 September 2009, pp.438-442
- LIV. **Design and Implementation of a Graphic Adaptor**
ÇAVDAR T., DİZDAROĞLU B.
5th International Advanced Technologies Symposium (IATS'09), Karabük, Turkey, 13 - 15 May 2009

- LV. Color Image Editing Based on Poisson Equation**
DİZDAROĞLU B., ÇAVDAR T.
5th International Advanced Technologies Symposium (IATS'09), Karabük, Turkey, 13 - 15 May 2009
- LVI. Design and Implementation of A Mat Forming Machine**
ÇAVDAR T., DİZDAROĞLU B.
5th International Advanced Technologies Symposium (IATS'09), Karabük, Turkey, 13 - 15 May 2009
- LVII. İki Serbestlik Dereceli bir Robot Kolu**
ÇAVDAR T.
3. Otomasyon Sempozyumu, Denizli, Turkey, 11 - 12 November 2005, pp.170-175
- LVIII. DSP'lerde İşlem Karmaşıklığını İndirgeme üzerine bir Çalışma**
ÇAVDAR T.
Elektrik-Elektronik-Bilgisayar Mühendisliği 11. Ulusal Kongresi ve Fuarı, İstanbul, Turkey, 22 - 25 September 2005, pp.324-327
- LIX. Yüksek Hızlı İletişim Sistemleri için Ye?i bir Kanal Denkleştirici**
ÇAVDAR T.
IEEE 12. Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SİU 2004), Aydın, Turkey, 28 - 30 April 2004, pp.530-533
- LX. A new channel equalizer for high speed communication systems**
Cavdar T.
IEEE 12th Signal Processing and Communications Applications Conference, Kusadasi, Turkey, 28 - 30 April 2004, pp.530-533
- LXI. Bir ML Yumuşak Kararlı Ardışık Kod Çözme Algoritması ve Diğer Ardışık Kod Çözme Algoritmalarıyla Karşılaştırılması**
ÇAVDAR T., GANGAL A.
IEEE 11. Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SİU 2003), İstanbul, Turkey, 18 - 20 June 2003, pp.711-714
- LXII. Bir Robot Kolunun Tasarımı Gerçeklenmesi ve Kontrolü**
ÇAVDAR T., ULUTAŞ M., AKSOY S.
Elektrik-Elektronik-Bilgisayar Mühendisliği 7. Ulusal Kongresi, Ankara, Turkey, 8 - 14 September 1997, pp.236-239
- LXIII. Hücresel Hareketli Yer Haberleşmesinde Yol Geometrisinin Bilgisayar Destekli İncelenmesi**
CORA A., ÇAVDAR T.
Elektrik-Elektronik-Bilgisayar Mühendisliği 6. Ulusal Kongresi, Bursa, Turkey, 11 - 17 September 1995, pp.700-703

Supported Projects

Dönmez Çavdar A., Boran Torun S., Keleş S., Mengeloğlu F., Ertaş M., Çavdar T., Aslan M., Taşdemir Ç., Öztürk E., KAR T., TÜBİTAK - AB COST Project, Biyokömür Kullanarak Araçlar İçin Çevre Dostu ve Sürdürülebilir Yakıt Sistemi Bileşenlerinin Geliştirilmesi ve Üretimi, 2023 - 2026

Ersoy H., Karahan M., Sünnetci M. O., Aydın K., Altunışık A. C., Kolaylı H., Fırat Ersoy A., Çavdar T., Bulut V. N., Sümer Haydaraslan K., et al., TUBITAK Project, Gerçeğe Yakın Model Deneyle Yangına Maruz Kalacak Tarihi Yapılarda Asit Yağmurlarının Uzun Yıllar Etkilerin Tahmini, 2023 - 2026

ÇAVDAR T., HATİPOĞLU M., Project Supported by Higher Education Institutions, Biyonik Kelebek Robot, 2023 - 2024

ÇAVDAR T., AYMAZ Ş., Project Supported by Higher Education Institutions, Büyük Ölçekli Yazılım Tanımlı Ağlarda SDN Yük Dengeleme Probleminin Optimizasyonu, 2021 - 2022

Dönmez Çavdar A., Çavdar T., Mengeloğlu F., Boran Torun S., TUBITAK Project, Yapay Zeka Optimizasyon Tekniği ile Hibrit Kompozit Bileşenlerinin Optimizasyonu: Lignin / Zeolit / Doğal Lif Takviyeli Termoplastik Esaslı Hibrit Kompozit Örneği, 2020 - 2021

ÇAVDAR T., Project Supported by Higher Education Institutions, Kablosuz Duyurga ve Aktivatör Ağları Yardımıyla Karasal Filoların İnsansız Denetimi, 2013 - 2014

Çavdar T., Project Supported by Higher Education Institutions, Yüksek Hızlı Kablosuz Haberleşme Sistemleri Kod Çözme Algoritması Kablosuz Kanal Denkleştirme Tekniği ve KTÜ Ağında Kurulacak Pilot bir Kablosuz Altağda Başarımını

İncelenmesi, 2005 - 2008

Çavdar T., Project Supported by Higher Education Institutions, ENDÜSTRİYEL BİR ROBOT KOLONUNUN TASARIMI, GERÇEKLENMESİ VE KONTROLÜ, 1997 - 1998

Patent

Öztürk E., Dönmez Çavdar A., Çavdar T., Boran Torun S., A system and method for manufacturing hybrid thermoplastic composite material, Patent, CHAPTER G Physics, The Invention Registration Number: TR 2021 015560 B , Standard Registration, 2023

Dönmez Çavdar A., Çavdar T., Öztürk E., Avcı B., Mengeloğlu F., Boran Torun S., Bir hibrit termoplastik kompozit malzeme üretim sistem ve yöntemi, Patent, CHAPTER G Physics, The Invention Registration Number: 2021 015560 , Standard Registration, 2023

Activities in Scientific Journals

Turkish Journal of Electrical Engineering & Computer Sciences, Editor, 2017 - Continues

Memberships / Tasks in Scientific Organizations

Atatürk Kültür, Dil ve Tarih Yüksek Kurumu, Member of Science Committee, 2021 - Continues, Turkey

Elektrik Mühendisleri Odası, Member, 1995 - 2002, Turkey

Peer Reviews in Scientific Publications

INTERNATIONAL JOURNAL OF INFORMATION SECURITY SCIENCE, Other Indexed Journal, August 2022

Düzce Üniversitesi Bilim ve Teknoloji Dergisi, Other journals, January 2022

PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, Other journals, November 2021

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, SCI Journal, March 2019

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, SCI Journal, December 2018

GAZI UNIVERSITY JOURNAL OF SCIENCE, Other journals, July 2018

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, Other journals, January 2018

Scientific Project Refereeing

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, September 2021

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, May 2021

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, April 2021

Technopark, December 2020

TÜBİTAK International Bilateral Joint Cooperation Program Project, Russian Foundation for Basic Research, RFBR Bilateral Cooperation Program, November 2020

TÜBİTAK International Bilateral Joint Cooperation Program Project, Japan Society for the Promotion of Science, JSPS Bilateral Cooperation Program, November 2020

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, October 2020

Technopark, July 2020

Technopark, June 2020

Technopark, June 2020

TÜBİTAK International Bilateral Joint Cooperation Program Project, Belarusian Republican Foundation for Fundamental Research, BRFFR Bilateral Cooperation Program, May 2020
Technopark, November 2019
Technopark, October 2018
TUBİTAK Project, 3001 - Initial R&D Projects Support Program, September 2018
TUBİTAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, May 2018
TUBİTAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, May 2018
TUBİTAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, May 2018
TUBİTAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, May 2018
TUBİTAK Project, 3501 - National Young Researcher Career Development Program, May 2018

Scientific Research / Working Group Memberships

Cost Action Ca19111 - European Network On Future Generation Optical Wireless Communication Technologies, Karadeniz Technical University, Turkey, <https://www.cost.eu/actions/CA19111/#tabs|Name:overview>, 2021 - Continues

Metrics

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Citation (WoS): 131
Citation (Scopus): 320
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H-Index (Scopus): 9