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Education Information

Doctorate, Arizona State University, Computer Science and Engineering, Computer Science, United States Of America
2001 - 2006

Postgraduate, Syracuse University, Computer Science and Engineering, Computer Science, United States Of America 1999
- 2001

Undergraduate, Selcuk University, Faculty Of Engineering-Architecture, Turkey 1993 - 1997

Research Areas

Engineering and Technology

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **DeepFogAQ: A fog-assisted decentralized air quality prediction and event detection system**
Şimsek M. U., Kök İ., ÖZDEMİR S.
Expert Systems with Applications, vol.251, 2024 (SCI-Expanded)
- II. **Road to efficiency: Mobility-driven joint task offloading and resource utilization protocol for connected vehicle networks**
Akyıldız O., YILDIRIM OKAY F., Kök İ., ÖZDEMİR S.
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- III. **Linguistic summarization of visual attention and developmental functioning of young children with autism spectrum disorder**
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- IV. **Unveiling anomalies: a survey on XAI-based anomaly detection for IoT**
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- V. **Smart meter-based energy consumption forecasting for smart cities using adaptive federated learning**
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- VI. **Cepair: an AI-powered and fog-based predictive CEP system for air quality monitoring**
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- VII. **Explainable Artificial Intelligence (XAI) for Internet of Things: A Survey**
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- VIII. **Computation Power and Energy Optimized Task Allocation in Internet of Things**
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- IX. **Design and evaluation of adaptive deep learning models for weather forecasting**
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- X. **FogAI: An AI-supported fog controller for Next Generation IoT**
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- XI. **QoS-aware IoT networks and protocols: A comprehensive survey**
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- XII. **Fair and energy-aware IoT service composition under QoS constraints**
GÜZEL M., ÖZDEMİR S.
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- XIII. **Ranking surgical skills using an attention-enhanced Siamese network with piecewise aggregated kinematic data**
Ogul B. B., Gilgien M., ÖZDEMİR S.
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- XIV. **Linking COVID-19 Perception With Socioeconomic Conditions Using Twitter Data**
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- XVII. **QoE-Driven IoT Architecture: A Comprehensive Review on System and Resource Management**
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- XVIII. **A Pairwise Deep Ranking Model for Relative Assessment of Parkinson's Disease Patients From Gait Signals**
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- XIX. **HAFTA: Highly adaptive fault-tolerant routing algorithm for two-dimensional network-on-chips**
Ipek A., TOSUN S., Ozdemir S.
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- XX. **Big data analytics for default prediction using graph theory**
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- XXI. **A deep learning-based CEP rule extraction framework for IoT data**

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- XXII. **QoS-driven metaheuristic service composition schemes: a comprehensive overview**
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- XXIII. **A review of heuristics and metaheuristics for community detection in complex networks: Current usage, emerging development and future directions**
Attea B. A., Abbood A. D., Hasan A. A., Pizzuti C., Al-Ani M., Ozdemir S., Al-Dabbagh R. D.
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- XXIV. **DeepMDP: A Novel Deep-Learning-Based Missing Data Prediction Protocol for IoT**
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- XXV. **Fog computing-based privacy preserving data aggregation protocols**
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- XXVI. **Towards Coverage-Aware Fuzzy Logic-Based Faulty Node Detection in Heterogeneous Wireless Sensor Networks**
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- XXVII. **Security and Privacy in Medical Internet of Things and Cluster-Based Wireless Sensor Networks for Health Care**
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- XXX. **Bio-inspired multi-objective algorithms for connected set K-covers problem in wireless sensor networks**
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- XXXI. **CDABC: chaotic discrete artificial bee colony algorithm for multi-level clustering in large-scale WSNs**
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- XXXII. **A New Task Allocation Protocol for Extending Stability and Operational Periods in Internet of Things**
Khalil E. A., Ozdemir S., Attea B. A.
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- XXXIII. **Routing in Fog-Enabled IoT Platforms: A Survey and an SDN-Based Solution**
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- XXXV. **Fuzzy Quantification and Opinion Mining on Qualitative Data using Feature Reduction**
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- XXXVI. **Fuzzy Traffic Control with Vehicle-to-Everything Communication**
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- SENSORS, vol.18, no.2, 2018 (SCI-Expanded)
- XXXVII. **Secure and reliable object tracking in wireless sensor networks**
Oracevic A., Akbas S., Ozdemir S.
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- XXXVIII. **Reliable and energy efficient topology control in probabilistic Wireless Sensor Networks via multi-objective optimization**
Khalil E. A., Ozdemir S.
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- XXXIX. **An Adaptive Vehicle Detection Algorithm Based on Magnetic Sensors in Intelligent Transportation Systems**
Xu B., Zheng J., Wang Q., Xiao Y., Ozdemir S.
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- XL. **Non-intrusive Traffic Data Collection with Wireless Sensor Networks for Intelligent Transportation Systems**
Zheng J., Wang Q., Xu B., Bi W., Tao Y., Xiao Y., Ozdemir S.
AD HOC & SENSOR WIRELESS NETWORKS, vol.34, no.1-4, pp.41-57, 2016 (SCI-Expanded)
- XLI. **A Multi-objective Disjoint Set Covers for Reliable Lifetime Maximization of Wireless Sensor Networks**
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- XLII. **PRDA: polynomial regression-based privacy-preserving data aggregation for wireless sensor networks**
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- XLIII. **IMPROVING COVERAGE IN WIRELESS SENSOR NETWORKS USING MULTI-OBJECTIVE EVOLUTIONARY ALGORITHMS**
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- XLIV. **GlobalView: building global view with log files in a distributed/networked system for accountability**
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- XLV. **Biologically inspired probabilistic coverage for mobile sensor networks**
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- XLVI. **MEDIUM ACCESS CONTROL PROTOCOLS IN WIRELESS SENSOR NETWORKS**
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- XLVII. **Multi-objective clustered-based routing with coverage control in wireless sensor networks**
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- XLVIII. **SECURE DATA AGGREGATION IN WIRELESS MULTIMEDIA SENSOR NETWORKS VIA WATERMARKING**
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- XLIX. **Cipher feedback mode under go-back-N and selective-reject protocols in error channels**
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- L. **Multi-Objective Evolutionary Algorithm Based on Decomposition for Energy Efficient Coverage in Wireless Sensor Networks**

Ozdemir S., Attea B. A., Khalil O. A.

WIRELESS PERSONAL COMMUNICATIONS, vol.71, no.1, pp.195-215, 2013 (SCI-Expanded)

- LI. **FTDA: outlier detection-based fault-tolerant data aggregation for wireless sensor networks**
Ozdemir S., Xiao Y.
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- LII. **Application-specific topology generation algorithms for network-on-chip design**
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- LIII. **Impacts of sensor node distributions on coverage in sensor networks**
Peng M., Chen H., Xiao Y., Ozdemir S., Vasilakos A. V., Wu J.
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- LV. **A Survey of Wormhole-based Attacks and their Countermeasures in Wireless Sensor Networks**
Meghdadi M., Ozdemir S., Gueler I.
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- LVI. **Integration of False Data Detection With Data Aggregation and Confidential Transmission in Wireless Sensor Networks**
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- LVIII. **A Survey of Payment Card Industry Data Security Standard**
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- LIX. **Secure Load Balancing via Hierarchical Data Aggregation in Heterogeneous Sensor Networks**
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JOURNAL OF INFORMATION SCIENCE AND ENGINEERING, vol.25, no.6, pp.1691-1705, 2009 (SCI-Expanded)
- LX. **Secure data aggregation in wireless sensor networks: A comprehensive overview**
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- LXI. **Functional reputation based reliable data aggregation and transmission for wireless sensor networks**
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- LXII. **SECURE DATA AGGREGATION IN WIRELESS SENSOR NETWORKS VIA HOMOMORPHIC ENCRYPTION**
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Articles Published in Other Journals

1. **A comparative analysis on the reliability of interpretable machine learning**

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- II. **Advancing affordable IoT solutions in smart homes to enhance independence and autonomy of the elderly**
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- III. **A P4-assisted task offloading scheme for Fog networks: An intelligent transportation system scenario**
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- IV. **TPS3: A privacy preserving data collection protocol for smart grids**
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- V. **Overview of internet of things: Concept, characteristics, challenges and opportunities**
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Refereed Congress / Symposium Publications in Proceedings

- I. **Improved Chain-based Multi-Output Classification for Packaging Planning**
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- II. **Transforming Military Security: Quantum Age Blockchain Architecture for IoBT - PARS**
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- III. **Narrowed Regions-based Bidirectional Path Planning Using RRT-Connect for Single Aircraft Missions**
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- IV. **Linguistic Comparison of Children with and without ASD through Eye-Tracking Data**
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- V. **Autonomous Micro-Grids: A Reinforcement Learning-Based Energy Management Model in Smart Cities**
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- VII. **A Novel Blockchain Based Decentralized Data Management Model for Swarm UAV Systems**
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- X. **QNSGA-II: A Quantum Computing-Inspired Approach to Multi-Objective Optimization**
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- XV. **SMOTE and Gaussian Noise Based Sensor Data Augmentation**
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- XVI. **A New CEP-based Air Quality Prediction Framework for Fog based IoT**
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- XVII. **Proposed Hybrid Attribute Selection Method on Financial Data Sets**
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- XVIII. **Detection of Malicious Requests on Web Logs Using Data Mining Techniques**

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- XIX. **Real-Time Object and Personnel Tracking in Indoor Location**
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- XX. **QoS Prediction Methods in IoT A Survey**
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- XXI. **Deep Learning based Delay and Bandwidth Efficient Data Transmission in IoT**
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- XXII. **SDN-Based Data Forwarding in Fog-Enabled Smart Grids**
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- XXIII. **Efficient and Secure Coverage Control in Internet of Things**
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- XXIV. **CEP Rule Extraction from Unlabeled Data in IoT**
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- XXV. **Comparative Analysis of IoT Communication Protocols**
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- XXVI. **Applications of Stream Data Mining on The Internet of Things: A Survey**
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- XXVII. **A Secure Data Aggregation Protocol for Fog Computing Based Smart Grids**
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Supported Projects

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DESTEK A., ÖZDEMİR S., TUBITAK Project, Nesnelerin İnterneti İçin Sis Hesaplama Temelli Karmaşık Olay İşleme Ve Değerli İçerik Çıkarımı, 2018 - 2021
Özdemir S., Tosun S., TUBITAK Project, Yeniden Yapılandırılabilen YongaÜstü Ağlar, 2018 - 2020

Metrics

Publication: 128
Citation (WoS): 1422
Citation (Scopus): 2870
H-Index (WoS): 20
H-Index (Scopus): 29

Non Academic Experience

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AIR Telekomünikasyon Çözümleri Ticaret Sanayi A.Ş.
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