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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Arizona State University, Computer Science and Engineering, Computer Science, Amerika Birleşik Devletleri
2001 - 2006

Yüksek Lisans, Syracuse University, Computer Science and Engineering, Computer Science, Amerika Birleşik Devletleri
1999 - 2001

Lisans, Selçuk Üniversitesi, Mühendislik-Mimarlık Fakültesi, Türkiye 1993 - 1997

Araştırma Alanları

Mühendislik ve Teknoloji

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayımlanan Makaleler

- Mx-TORU: Location-aware multi-hop task offloading and resource optimization protocol for connected vehicle networks**
Akyıldız O., YILDIRIM OKAY F., KÖK İ., ÖZDEMİR S.
COMPUTER NETWORKS, 2025 (SCI-Expanded)
- Deepat: a real-time deep learning based model for aircraft tracking system**
Çakıcı M. E., YILDIRIM OKAY F., ÖZDEMİR S.
JOURNAL OF SUPERCOMPUTING, cilt.81, sa.1, 2025 (SCI-Expanded)
- Linguistic summarization of visual attention and developmental functioning of young children with autism spectrum disorder**
Ozturk D., AYDOĞAN S., KÖK İ., AKIN BÜLBÜL İ., ÖZDEMİR S., ÖZDEMİR S., AKAY D.
HEALTH INFORMATION SCIENCE AND SYSTEMS, cilt.12, sa.1, 2024 (SCI-Expanded)
- DeepFogAQ: A fog-assisted decentralized air quality prediction and event detection system**
Şimsek M. U., Kök İ., ÖZDEMİR S.
Expert Systems with Applications, cilt.251, 2024 (SCI-Expanded)
- 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.
Future Generation Computer Systems, cilt.156, ss.157-167, 2024 (SCI-Expanded)

- VI. **Unveiling anomalies: a survey on XAI-based anomaly detection for IoT**
EREN E., YILDIRIM OKAY F., ÖZDEMİR S.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, cilt.32, sa.3, ss.358-381, 2024 (SCI-Expanded)
- VII. **Smart meter-based energy consumption forecasting for smart cities using adaptive federated learning**
Abdulla N., DEMİRCİ M., ÖZDEMİR S.
Sustainable Energy, Grids and Networks, cilt.38, 2024 (SCI-Expanded)
- VIII. **Cepair: an AI-powered and fog-based predictive CEP system for air quality monitoring**
Şimsek M. U., Kök İ., ÖZDEMİR S.
Cluster Computing, 2024 (SCI-Expanded)
- IX. **DeepTwin: A Deep Reinforcement Learning Supported Digital Twin Model for Micro-Grids**
Ozkan E., KÖK İ., ÖZDEMİR S.
IEEE ACCESS, ss.196432-196441, 2024 (SCI-Expanded)
- X. **Explainable Artificial Intelligence (XAI) for Internet of Things: A Survey**
Kok I., Okay F. Y., Muyanli O., ÖZDEMİR S.
IEEE Internet of Things Journal, cilt.10, sa.16, ss.14764-14779, 2023 (SCI-Expanded)
- XI. **Computation Power and Energy Optimized Task Allocation in Internet of Things**
Kazanci I., ÖZDEMİR S., TOSUN S.
IEEE Transactions on Network and Service Management, cilt.19, sa.4, ss.4424-4433, 2022 (SCI-Expanded)
- XII. **Design and evaluation of adaptive deep learning models for weather forecasting**
Abdulla N., DEMİRCİ M., ÖZDEMİR S.
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, cilt.116, 2022 (SCI-Expanded)
- XIII. **FogAI: An AI-supported fog controller for Next Generation IoT**
KÖK İ., YILDIRIM OKAY F., ÖZDEMİR S.
INTERNET OF THINGS, cilt.19, 2022 (SCI-Expanded)
- XIV. **QoS-aware IoT networks and protocols: A comprehensive survey**
DİLEK S., Irgan K., GÜZEL M., ÖZDEMİR S., BAYDERE Ş., Charnsripinyo C.
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- XV. **Fair and energy-aware IoT service composition under QoS constraints**
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- XVI. **Ranking surgical skills using an attention-enhanced Siamese network with piecewise aggregated kinematic data**
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- XVII. **Linking COVID-19 Perception With Socioeconomic Conditions Using Twitter Data**
Sert E., Okan O., Ozbilen A., Ertekin S., Ozdemir S.
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- XVIII. **A survey on computation offloading and service placement in fog computing-based IoT**
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- XIX. **Priority enabled content based forwarding in fog computing via SDN**
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- XX. **A Pairwise Deep Ranking Model for Relative Assessment of Parkinson's Disease Patients From Gait Signals**
Ogul B. B., Ozdemir S.
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- XXI. **QoE-Driven IoT Architecture: A Comprehensive Review on System and Resource Management**
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- XXII. **HAFTA: Highly adaptive fault-tolerant routing algorithm for two-dimensional network-on-chips**
Ipek A., TOSUN S., Ozdemir S.
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- XXIII. **Big data analytics for default prediction using graph theory**
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- XXIV. **A deep learning-based CEP rule extraction framework for IoT data**
ŞİMŞEK M. B., YILDIRIM OKAY F., Ozdemir S.
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- XXV. **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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- XXVI. **QoS-driven metaheuristic service composition schemes: a comprehensive overview**
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- XXVII. **DeepMDP: A Novel Deep-Learning-Based Missing Data Prediction Protocol for IoT**
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- XXVIII. **Fog computing-based privacy preserving data aggregation protocols**
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- XXIX. **Towards Coverage-Aware Fuzzy Logic-Based Faulty Node Detection in Heterogeneous Wireless Sensor Networks**
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- XXX. **ANFIS and Deep Learning based missing sensor data prediction in IoT**
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- XXXI. **Security and Privacy in Medical Internet of Things and Cluster-Based Wireless Sensor Networks for Health Care**
Hammoodi A. S., Ozdemir S., Tuncer A. T., Celebi F.
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- XXXII. **A new evolutionary multi-objective community mining algorithm for signed networks**
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- XXXIII. **Bio-inspired multi-objective algorithms for connected set K-covers problem in wireless sensor networks**
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- XXXIV. **CDABC: chaotic discrete artificial bee colony algorithm for multi-level clustering in large-scale WSNs**
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- XXXV. **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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- XXXVI. **Routing in Fog-Enabled IoT Platforms: A Survey and an SDN-Based Solution**
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- XXXVII. **Evolutionary task allocation in Internet of Things-based application domains**
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FUTURE GENERATION COMPUTER SYSTEMS-THE INTERNATIONAL JOURNAL OF ESCIENCE, cilt.86, ss.121-133,
2018 (SCI-Expanded)
- XXXVIII. **Fuzzy Quantification and Opinion Mining on Qualitative Data using Feature Reduction**
Dundar B., AKAY D., BORAN F. E., Ozdemir S.
INTERNATIONAL JOURNAL OF INTELLIGENT SYSTEMS, cilt.33, sa.9, ss.1840-1857, 2018 (SCI-Expanded)
- XXXIX. **Fuzzy Traffic Control with Vehicle-to-Everything Communication**
Salman M. A., Ozdemir S., ÇELEBİ F. V.
SENSORS, cilt.18, sa.2, 2018 (SCI-Expanded)
- XL. **Secure and reliable object tracking in wireless sensor networks**
Oracevic A., Akbas S., Ozdemir S.
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- XLI. **Reliable and energy efficient topology control in probabilistic Wireless Sensor Networks via multi-objective optimization**
Khalil E. A., Ozdemir S.
JOURNAL OF SUPERCOMPUTING, cilt.73, sa.6, ss.2632-2656, 2017 (SCI-Expanded)
- XLII. **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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- XLIII. **Non-intrusive Traffic Data Collection with Wireless Sensor Networks for Intelligent Transportation Systems**
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- XLIV. **PRDA: polynomial regression-based privacy-preserving data aggregation for wireless sensor networks**
Ozdemir S., Peng M., Xiao Y.
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- XLV. **A Multi-objective Disjoint Set Covers for Reliable Lifetime Maximization of Wireless Sensor Networks**
Attea B. A., Khalil E. A., Ozdemir S., YILDIZ O.
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- XLVI. **IMPROVING COVERAGE IN WIRELESS SENSOR NETWORKS USING MULTI-OBJECTIVE EVOLUTIONARY ALGORITHMS**
YILDIRIM OKAY F., Ozdemir S.
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- XLVII. **GlobalView: building global view with log files in a distributed/networked system for accountability**
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- XLVIII. **Biologically inspired probabilistic coverage for mobile sensor networks**
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- XLIX. **MEDIUM ACCESS CONTROL PROTOCOLS IN WIRELESS SENSOR NETWORKS**
Okay F. Y., Ozdemir S.
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- L. **SECURE DATA AGGREGATION IN WIRELESS MULTIMEDIA SENSOR NETWORKS VIA WATERMARKING**
Elbasi E., Ozdemir S.

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- LI. **Multi-objective clustered-based routing with coverage control in wireless sensor networks**
Ozdemir S., Attea B. A., Khalil O. A.
SOFT COMPUTING, cilt.17, sa.9, ss.1573-1584, 2013 (SCI-Expanded)
- LII. **Cipher feedback mode under go-back-N and selective-reject protocols in error channels**
Liang X., Xiao Y., Ozdemir S., Vasilakos A. V., Deng H.
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- LIII. **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, cilt.71, sa.1, ss.195-215, 2013 (SCI-Expanded)
- LIV. **FTDA: outlier detection-based fault-tolerant data aggregation for wireless sensor networks**
Ozdemir S., Xiao Y.
SECURITY AND COMMUNICATION NETWORKS, cilt.6, sa.6, ss.702-710, 2013 (SCI-Expanded)
- LV. **Application-specific topology generation algorithms for network-on-chip design**
Tosun S., Ar Y., Ozdemir S.
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- LVI. **Impacts of sensor node distributions on coverage in sensor networks**
Peng M., Chen H., Xiao Y., Ozdemir S., Vasilakos A. V., Wu J.
JOURNAL OF PARALLEL AND DISTRIBUTED COMPUTING, cilt.71, sa.12, ss.1578-1591, 2011 (SCI-Expanded)
- LVII. **Integrity protecting hierarchical concealed data aggregation for wireless sensor networks**
Ozdemir S., Xiao Y.
COMPUTER NETWORKS, cilt.55, sa.8, ss.1735-1746, 2011 (SCI-Expanded)
- LVIII. **A Survey of Wormhole-based Attacks and their Countermeasures in Wireless Sensor Networks**
Meghdadi M., Ozdemir S., Gueler I.
IETE TECHNICAL REVIEW, cilt.28, sa.2, ss.89-102, 2011 (SCI-Expanded)
- LIX. **Integration of False Data Detection With Data Aggregation and Confidential Transmission in Wireless Sensor Networks**
Ozdemir S., Cam H.
IEEE-ACM TRANSACTIONS ON NETWORKING, cilt.18, sa.3, ss.736-749, 2010 (SCI-Expanded)
- LX. **CONCEALED DATA AGGREGATION IN HETEROGENEOUS WIRELESS SENSOR NETWORK BASED BORDER SURVEILLANCE SYSTEMS**
Ozdemir S.
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- LXI. **A Survey of Payment Card Industry Data Security Standard**
Liu J., Xiao Y., Chen H., Ozdemir S., Dodle S., Singh V.
IEEE COMMUNICATIONS SURVEYS AND TUTORIALS, cilt.12, sa.3, ss.287-303, 2010 (SCI-Expanded)
- LXII. **Secure Load Balancing via Hierarchical Data Aggregation in Heterogeneous Sensor Networks**
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- LXIII. **Secure data aggregation in wireless sensor networks: A comprehensive overview**
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- LXIV. **Functional reputation based reliable data aggregation and transmission for wireless sensor networks**
Ozdemir S.
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- LXV. **SECURE DATA AGGREGATION IN WIRELESS SENSOR NETWORKS VIA HOMOMORPHIC ENCRYPTION**
Ozdemir S.

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- LXVI. **Energy-efficient secure pattern based data aggregation for wireless sensor networks**
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COMPUTER COMMUNICATIONS, cilt.29, sa.4, ss.446-455, 2006 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **A comparative analysis on the reliability of interpretable machine learning**
Yildirim M., YILDIRIM OKAY F., ÖZDEMİR S.
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- II. **Advancing affordable IoT solutions in smart homes to enhance independence and autonomy of the elderly**
Akhmetzhanov B., Akhmetzhanov B., ÖZDEMİR S., Zhakiyev N.
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- III. **A P4-assisted task offloading scheme for Fog networks: An intelligent transportation system scenario**
Akyıldız O., Kök İ., Okay F. Y., ÖZDEMİR S.
Internet of Things (Netherlands), cilt.22, 2023 (Scopus)
- IV. **TPS3: A privacy preserving data collection protocol for smart grids**
Simsek M. U., Okay F. Y., Mert D., Ozdemir S.
INFORMATION SECURITY JOURNAL, cilt.27, sa.2, ss.102-118, 2018 (ESCI)
- V. **Overview of internet of things: Concept, characteristics, challenges and opportunities**
Khalil E. A., Ozdemir S.
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- VI. **Performance Evaluation of Key Management Schemes in Wireless Sensor Networks**
Khalil O., Ozdemir S.
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- VII. **Wireless Sensor Network Security: A Comprehensive Overview**
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Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Improved Chain-based Multi-Output Classification for Packaging Planning**
Yildiz S. N., YILDIRIM OKAY F., Islamov A., ÖZDEMİR S.
14th International Conference on Emerging Ubiquitous Systems and Pervasive Networks / 13th International Conference on Current and Future Trends of Information and Communication Technologies in Healthcare, EUSPN/ICTH 2023, Almaty, Kazakistan, 7 - 09 Kasım 2023, cilt.231, ss.697-702
- II. **Transforming Military Security: Quantum Age Blockchain Architecture for IoBT - PARS**
Cakal K., ÖZDEMİR S.
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- III. **Narrowed Regions-based Bidirectional Path Planning Using RRT-Connect for Single Aircraft Missions**
Candemir D., Kök İ., ÖZDEMİR S.
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- IV. **Linguistic Comparison of Children with and without ASD through Eye-Tracking Data**
Ozturk D., AYDOĞAN S., Kok I., AKIN BÜLBÜL I., ÖZDEMİR S., ÖZDEMİR S., AKAY D.
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- V. **Autonomous Micro-Grids: A Reinforcement Learning-Based Energy Management Model in Smart Cities**
Özkan E., Kök I., ÖZDEMİR S.
2023 International Symposium on Networks, Computers and Communications, ISNCC 2023, Doha, Qatar, 23 - 26 Ekim 2023
- VI. **Dielectric Characterization of Ultrathin Softwear Flexible Substrates Intended for Wearable Biomedical Applications**
Naseer N., İFTİKHAR A., GÖKCEN D., ÖZDEMİR S., SAKA TANATAR B.
7th International Electromagnetic Compatibility Conference, EMC Türkiye 2023, İstanbul, Türkiye, 17 - 20 Eylül 2023
- VII. **A Novel Blockchain Based Decentralized Data Management Model for Swarm UAV Systems**
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- VIII. **Towards Utilizing Unlabeled Data for Flood Forecasting with Weakly Supervised Adaptive Learning**
Abdulla N., DEMİRCİ M., ÖZDEMİR S.
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- IX. **Demonstration of Multi-Layer IoT Platform with QoS Support**
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- X. **QNSGA-II: A Quantum Computing-Inspired Approach to Multi-Objective Optimization**
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- XI. **Impact of Missing Data on Classification Success in Health and Comparative Analysis of Imputation Methods**
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- XII. **Towards QoS-Aware Resource Allocation in Fog Computing: A Theoretical Model**
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- XIII. **Sentiment Analysis for Turkish Unstructured Data by Machine Translation**
Yildirim M., Okay F. Y., ÖZDEMİR S.
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- XIV. **A Novel Weighted FP-Stream Algorithm for IoT Data Streams**
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- XV. **SMOTE and Gaussian Noise Based Sensor Data Augmentation**
Arslan M., Guzel M., DEMİRCİ M., Ozdemir S.
4th International Conference on Computer Science and Engineering (UBMK), Samsun, Türkiye, 11 - 15 Eylül 2019, ss.458-462
- 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**
Yildirim M., Ozdemir S.
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- XVIII. **Detection of Malicious Requests on Web Logs Using Data Mining Techniques**
Sahin M. E., Ozdemir S.
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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**
Bagiroz B., Guzel M., YAVANOĞLU U., Ozdemir S.
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- XXI. **Deep Learning based Delay and Bandwidth Efficient Data Transmission in IoT**
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Metrikler

- Yayın: 131
Atıf (WoS): 1422
Atıf (Scopus): 2870
H-İndeks (WoS): 20
H-İndeks (Scopus): 29

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