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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAW-5297-2020

ScopusID: 56176634700

Education Information

Doctorate, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, Turkey 2014 - 2018

Foreign Languages

French, A1 Beginner

Research Areas

algorithms, Computer Networks, Artificial Intelligence, Computer Learning and Pattern Recognition

Academic Titles / Tasks

Lecturer PhD, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 2022 - Continues

Lecturer, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 2014 - 2018

Courses

Programming with Python for Engineers, Undergraduate, 2021 - 2022

Introduction to C Programming, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016

Published journal articles indexed by SCI, SSCI, and AHCI

1. An altitude-aware fuzzy approach for energy efficiency in UAV-assisted 3D Wireless Sensor Networks

SERT S. A., YAZICI A.

Applied Soft Computing, vol.167, 2024 (SCI-Expanded)

- II. **Increasing energy efficiency of rule-based fuzzy clustering algorithms using CLONALG-M for wireless sensor networks**
Sert S. A., Yazici A.
Applied Soft Computing, vol.109, 2021 (SCI-Expanded)
- III. **A Fusion-Based Framework for Wireless Multimedia Sensor Networks in Surveillance Applications**
Yazici A., Koyuncu M., Sert S. A., Yilmaz T.
IEEE ACCESS, vol.7, pp.88418-88434, 2019 (SCI-Expanded)
- IV. **A Two-Tier Distributed Fuzzy Logic Based Protocol for Efficient Data Aggregation in Multihop Wireless Sensor Networks**
SERT S. A., Alchihabi A., YAZICI A.
IEEE TRANSACTIONS ON FUZZY SYSTEMS, vol.26, no.6, pp.3615-3629, 2018 (SCI-Expanded)
- V. **MOFCA: Multi-objective fuzzy clustering algorithm for wireless sensor networks**
SERT S. A., Bagci H., YAZICI A.
APPLIED SOFT COMPUTING, vol.30, pp.151-165, 2015 (SCI-Expanded)
- VI. **Evolutionary Multiobjective Query Workload Optimization of Cloud Data Warehouses**
Dokeroglu T., SERT S. A., Cinar M. S.
SCIENTIFIC WORLD JOURNAL, 2014 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **A Multi-Level Blockchain-based Node Authentication Approach for UAV-assisted Wireless Sensor Networks**
SERT S. A.
10th International Conference on Recent Advances in Air and Space Technologies, RAST 2023, İstanbul, Turkey, 7 - 09 June 2023
- II. **A Role-Based Access Control Management Model on Blockchain for Restricted Facilities: An Airport Example**
Zorlu O., ÖZSOY A., SERT S. A.
10th International Conference on Recent Advances in Air and Space Technologies, RAST 2023, İstanbul, Turkey, 7 - 09 June 2023
- III. **A Novel Hybrid Grey Wolf Optimization Methodology for Resource Constrained Networks Kaynak Kısıtlı Ağlar için Yeni Bir Hibrit Gri Kurt Eniyileme Metodolojisi**
SERT S. A.
30th Signal Processing and Communications Applications Conference, SIU 2022, Safranbolu, Turkey, 15 - 18 May 2022
- IV. **Optimizing the Performance of Rule-Based Fuzzy Routing Algorithms in Wireless Sensor Networks**
Sert S. A., YAZICI A.
2019 IEEE International Conference on Fuzzy Systems, FUZZ 2019, Louisiana, United States Of America, 23 - 26 June 2019, vol.2019-June
- V. **An Efficient Fuzzy Path Selection Approach to Mitigate Selective Forwarding Attacks in Wireless Sensor Networks**
SERT S. A., Fung C., George R., YAZICI A.
IEEE International Conference on Fuzzy Systems (FUZZ-IEEE), Naples, Italy, 9 - 12 July 2017
- VI. **Effects of Selective Forwarding Attacks on Wireless Sensor Network Efficiency**
Sert S. A., YAZICI A., Cosar A.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- VII. **Fuzzy Processing in Surveillance Wireless Sensor Networks**
SERT S. A., YAZICI A., Dokeroglu T.

IEEE International Conference on Fuzzy Systems (FUZZ-IEEE), Vancouver, Canada, 24 - 29 July 2016, pp.1509-1515

VIII. Improving Hadoop Hive Query Response Times Through Efficient Virtual Resource Allocation

Dokeroglu T., Cinar M. S., SERT S. A., COŞAR A., YAZICI A.

11th International Conference on Flexible Query Answering Systems (FQAS), Cracow, Poland, 26 - 28 October 2015, vol.400, pp.215-225

IX. Security Attacks and Countermeasures in Surveillance Wireless Sensor Networks

Sert S. A., Onur E., Yazici A.

9th International Conference of Information and Communiation Technologies (AICT), Rostov-on-Don, Russia, 14 - 16 October 2015, pp.201-205

X. Impacts of Routing Attacks on Surveillance Wireless Sensor Networks

SERT S. A., YAZICI A., COŞAR A.

11th IEEE International Wireless Communications and Mobile Computing Conference (IEEE IWCMC), Dubrovnik, Croatia, 24 - 25 August 2015, pp.910-915

XI. An Efficient Fuzzy Fusion-Based Framework for Surveillance Applications in Wireless Multimedia Sensor Networks

SERT S. A., YAZICI A., COŞAR A., Yilmazer C.

10th International Wireless Communications & Mobile Computing Conference (IWCMC), Nicosia, CYPRUS, 4 - 08 August 2014, pp.767-772

XII. Data Fusion and Processing in Wireless Multimedia Sensor Networks: An Analysis for Surveillance Applications

SERT S. A., YAZICI A., COŞAR A.

22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.421-424

XIII. Designing cloud data warehouses using multiobjective evolutionary algorithms

Dökeroğlu T., Sert S. A., Çinar M. S., Coşar A.

6th International Conference on Agents and Artificial Intelligence, ICAART 2014, Angers, France, 6 - 08 March 2014, vol.1, pp.571-576

Supported Projects

YAZICI A., SERT S. A., TUBITAK Project, Kablosuz Çoklu Ortam Duyarga Ağlarında Gözetleme Uygulamaları İçin Füzyon-Tabanlı Çatı Tasarımı Ve Geliştirilmesi, 2015 - 2018

Scientific Refereeing

IEEE SENSORS JOURNAL, SCI Journal, February 2022

APPLIED SOFT COMPUTING, SCI Journal, March 2021

IEEE TRANSACTIONS ON FUZZY SYSTEMS, SCI Journal, September 2014

Metrics

Publication: 19

Citation (WoS): 276

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