

## Lect. PhD SEYYİT ALPER SERT

### Personal Information

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### International Researcher IDs

ScholarID: rtHlk\_UAAAAJ

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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

Citation (Scopus): 278

H-Index (WoS): 6

H-Index (Scopus): 6