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Personal Information

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Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (Dr), Turkey 2013 - 2019

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (YI) (Tezli), Turkey 2011 - 2013

Postgraduate, Tobb University Of Economics And Technology, Institute Of Science, Bilgisayar Mühendisliği (YI) (Tezli), Turkey 2010 - 2011

Undergraduate, Cankaya University, Faculty Of Economics And Administrative Sciences, Department Of Business, Turkey 2008 - 2010

Undergraduate, Cankaya University, Faculty Of Engineering, Department Of Computer Engineering, Turkey 2005 - 2010

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Nesnelerin İnterneti için Sis Hesaplama Tabanlı Veri Kümeleme ve Yönlendirme Modelleri, Gazi University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (Dr), 2019

Postgraduate, Kablosuz algılayıcı ağlarda çok-amaçlı evrimsel algoritmalar ile etkin güvenli kapsama kontrolü, Gazi University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (YI) (Tezli), 2013

Academic Titles / Tasks

Research Assistant, Gazi University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2010 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Priority Enabled Content Based Forwarding in Fog Computing via SDN**
İNAÇ Y., GÜZEL M., YILDIRIM OKAY F., DEMİRCİ M., ÖZDEMİR S.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, pp.1-21, 2022 (Journal Indexed in SCI Expanded)
- II. **Big data analytics for default prediction using graph theory**
Yildirim M., Okay F., Ozdemir S.
EXPERT SYSTEMS WITH APPLICATIONS, vol.176, 2021 (Journal Indexed in SCI)
- III. **A deep learning-based CEP rule extraction framework for IoT data**
Şimşek M. U. , Yıldırım Okay F., Ozdemir S.
JOURNAL OF SUPERCOMPUTING, vol.77, no.8, pp.8563-8592, 2021 (Journal Indexed in SCI)
- IV. **Fog computing-based privacy preserving data aggregation protocols**

YILDIRIM OKAY F., Ozdemir S., Xiao Y.

TRANSACTIONS ON EMERGING TELECOMMUNICATIONS TECHNOLOGIES, vol.31, no.4, 2020 (Journal Indexed in SCI)

V. **Routing in Fog-Enabled IoT Platforms: A Survey and an SDN-Based Solution**

YILDIRIM OKAY F., Ozdemir S.

IEEE INTERNET OF THINGS JOURNAL, vol.5, no.6, pp.4871-4889, 2018 (Journal Indexed in SCI)

VI. **IMPROVING COVERAGE IN WIRELESS SENSOR NETWORKS USING MULTI-OBJECTIVE EVOLUTIONARY ALGORITHMS**

YILDIRIM OKAY F., Ozdemir S.

JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.30, no.2, pp.143-153, 2015 (Journal Indexed in SCI)

VII. **MEDIUM ACCESS CONTROL PROTOCOLS IN WIRELESS SENSOR NETWORKS**

YILDIRIM OKAY F., Ozdemir S.

JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.29, no.1, pp.49-59, 2014 (Journal Indexed in SCI)

Articles Published in Other Journals

I. **TPS3: A privacy preserving data collection protocol for smart grids**

ŞİMŞEK M. B. , YILDIRIM OKAY F., Mert D., Ozdemir S.

INFORMATION SECURITY JOURNAL, vol.27, no.2, pp.102-118, 2018 (Journal Indexed in ESCI)

Books & Book Chapters

I. **Fog Computing Based Complex Event Processing for Internet of Things**

Yildirim Okay F., Kök I., Güzel M., Özdemir S.

in: BIG DATA-ENABLED INTERNET OF THINGS, Muhammad Usman Shahid Khan, Samee U. Khan, Albert Y. Zomaya, Editor, IET - Institution of Engineering and Technology, North Dakota, pp.68-80, 2019

Refereed Congress / Symposium Publications in Proceedings

I. **Real-time Aircraft Tracking System: A Survey and A Deep Learning Based Model**

Çakıcı M. E. , YILDIRIM OKAY F., ÖZDEMİR S.

2021 International Symposium on Networks, Computers and Communications (ISNCC), Dubai, United Arab Emirates, 31 October 2021

II. **Interpretable Machine Learning: A Case Study of Healthcare**

YILDIRIM OKAY F., YILDIRIM M., ÖZDEMİR S.

2021 International Symposium on Networks, Computers and Communications (ISNCC), Dubai, United Arab Emirates, 31 October 2021

III. **Sentiment Analysis for Turkish Unstructured Data by Machine Translation**

YILDIRIM M., YILDIRIM OKAY F., ÖZDEMİR S.

2020 IEEE International Conference on Big Data (Big Data), Atlanta, GA, United States Of America, 11 December 2020

IV. **SDN-Based Data Forwarding in Fog-Enabled Smart Grids**

YILDIRIM OKAY F., ÖZDEMİR S., DEMİRCİ M.

IEEE GPECOM 2019, 12 - 15 June 2019

V. **Efficient and Secure Coverage Control in Internet of Things**

YILDIRIM OKAY F., Ozdemir S.

3rd International Conference on Computer Science and Engineering (UBMK), Sarajevo, Bosnia And Herzegovina, 20 - 23 September 2018, pp.90-95

- VI. **A Secure Data Aggregation Protocol for Fog Computing Based Smart Grids**
YILDIRIM OKAY F., Ozdemir S.
12th IEEE International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG), Doha, Qatar, 10 - 12 April 2018
- VII. **Comparative Analysis of IoT Communication Protocols**
Corak B. H. , YILDIRIM OKAY F., GÜZEL M., Murt S., Ozdemir S.
International Symposium on Networks, Computers and Communications (ISNCC), Rome, Italy, 19 - 21 June 2018
- VIII. **A Fog Computing Based Smart Grid Model**
YILDIRIM OKAY F., Ozdemir S.
International Symposium on Networks, Computers and Communications (ISNCC), Hammamet, Tunisia, 11 - 13 May 2016
- IX. **Dimensionality reduction with PCA in block based DCT domain**
GÜZEL TURHAN C., YILDIRIM OKAY F., YILDIZ O., BİLGE H. Ş.
International Conference on Advanced Technology & Sciences (ICAT'14), Antalya, Turkey, 12 - 15 August 2014, pp.216-220
- X. **Kablosuz Algılayıcı Ağlarda Güvenli Yönlendirme Protokolleri Üzerine Bir İnceleme**
Yıldırım Okay F., Özdemir S., Sağıroğlu Ş.
7th International Conference on Information Security and Cryptology, İstanbul, Turkey, 14 - 16 January 2014
- XI. **Multi objective evolutionary algorithm based on decomposition for efficient coverage control in mobile sensor networks**
Ali Attea B., Yıldırım Okay F., Özdemir S., Akcayol M. A.
2012 6th International Conference on Application of Information and Communication Technologies (AICT), Tbilisi, Georgia, 17 - 19 October 2012
- XII. **Kablosuz Algılayıcı Ağlarda Güvenli Ortam Erişim Protokolleri**
Yıldırım Okay F., Özdemir S.
International Conference on Information Security & Cryptology (ISCTURKEY), Ankara, Turkey, 5 - 08 June 2012, pp.1-7

Citations

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