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Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: U-8286-2019

ScopusID: 56426129000

Yoksis Researcher ID: U-8286-2019

Education Information

Doctorate, Marmara University, Faculty of Technology, Computer Engineering, Turkey 2015 - 2020

Postgraduate, Istanbul Kultur University, Faculty Of Engineering, Department Of Computer Engineering, Turkey 2013 - 2015

Undergraduate, Istanbul Kultur University, Faculty Of Arts And Sciences, Department Of Mathematics And Computer, Turkey 2009 - 2013

Dissertations

Doctorate, Derin öğrenme tabanlı saldırı tespit sistemi, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Computer Engineering, 2020

Postgraduate, Dağıtık veritabanları için test uygulaması, Istanbul Kultur University, Faculty Of Engineering, Department Of Computer Engineering, 2015

Research Areas

Computer Sciences

Academic Titles / Tasks

Assistant Professor, Marmara University, Faculty of Technology, Computer Engineering, 2022 - Continues

Assistant Professor, Biruni University, Faculty Of Engineering And Natural Sciences, Department Of Computer Engineering, 2021 - 2022

Research Assistant, Istanbul Kultur University, Faculty Of Arts And Sciences, Department Of Mathematics And Computer, 2013 - 2021

Academic and Administrative Experience

Deputy Head of Department, Marmara University, Faculty Of Technology, Computer Engineering, 2024 - Continues

Advising Theses

Demir Ö., Karataş Baydoğmuş G., Kolektif Makine Öğrenmesi Tabanlı Ağ Saldırı Tespiti, Postgraduate, Ş.EMANET(Student), 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **So-haTRed: A novel hybrid system for Turkish Hate Speech Detection in Social Media with Ensemble Deep Learning improved by BERT and clustered-Graph Networks**
Altinel A. B., Sahin S., Gurbuz M. Z., KARATAŞ BAYDOĞMUŞ G.
IEEE Access, vol.12, pp.86252-86270, 2024 (SCI-Expanded)
- II. **An ensemble learning based IDS using Voting rule: VEL-IDS**
Emanet S., KARATAŞ BAYDOĞMUŞ G., DEMİR Ö.
PeerJ Computer Science, vol.9, pp.1-23, 2023 (SCI-Expanded)
- III. **Solution for TSP/mTSP with an Improved Parallel Clustering and Elitist ACO**
KARATAŞ BAYDOĞMUŞ G.
Computer Science and Information Systems, vol.29, no.1, pp.195-214, 2023 (SCI-Expanded)
- IV. **Increasing the Performance of Machine Learning-Based IDSs on an Imbalanced and Up-to-Date Dataset**
Karatas G., Demir Ö., Şahingöz Ö. K.
IEEE ACCESS, vol.8, pp.32150-32162, 2020 (SCI-Expanded)
- V. **Automated testing for distributed databases with fuzzy fragment reallocation**
Akbulut A., Karatas G.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.26, no.2, pp.677-692, 2018 (SCI-Expanded)

Articles Published in Other Journals

- I. **Detecting Internet of Things Attacks by Using Hybrid Learning and Feature Selection Method**
KARATAŞ BAYDOĞMUŞ G.
Avrupa Bilim ve Teknoloji Dergisi, no.29, pp.19-25, 2021 (Peer-Reviewed Journal)
- II. **Öznitelik Seçme Yöntemlerinin Makine Öğrenmesi Tabanlı Saldırı Tespit Sistemi Performansına Etkileri**
Emanet Ş., KARATAŞ BAYDOĞMUŞ G., DEMİR Ö.
Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, vol.12, no.5, pp.743-755, 2021 (Peer-Reviewed Journal)
- III. **Deep Learning Based Security Management of Information Systems: A Comparative Study**
çebi c. b., bulut f. s., firat h., ŞAHİNGÖZ Ö. K., KARATAŞ G.
Journal of Advances in Information Technology, vol.11, no.3, pp.135-142, 2020 (Scopus)
- IV. **Saldırı Tespit Sistemlerinde Makine Öğrenmesi Modellerinin Karşılaştırılması**
CEBİ C. B., BULUT F. S., FIRAT H., KARATAŞ G., ŞAHİNGÖZ Ö. K.
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.12, no.3, pp.1513-1525, 2019 (Peer-Reviewed Journal)
- V. **Survey on Access Control Mechanisms in Cloud Computing**
KARATAŞ G., AKBULUT A.
Journal of Cyber Security and Mobility, vol.7, no.3, pp.1-36, 2018 (Scopus)
- VI. **Mobil Cihazlarda Güvenlik Tehditler Temel Stratejiler.**
KARATAŞ G., AKBULUT A., ZAİM A. H.
İstanbul Ticaret Üniversitesi Fen Bilimleri Dergisi, vol.15, no.30, pp.55-75, 2016 (Non Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Obtaining the Dominating Set in Graphs with the Invasive Weed Optimization Algorithm**
KARCI Ş., KARATAŞ BAYDOĞMUŞ G.
8th International Artificial Intelligence and Data Processing Symposium, IDAP 2024, Malatya, Turkey, 21 - 22 September 2024
- II. **Disease Detection using Deep Learning Algorithms on the Hardware Platforms**
KARATAŞ BAYDOĞMUŞ G., Cicekli N. Z.
2023 Innovations in Intelligent Systems and Applications Conference, ASYU 2023, Sivas, Turkey, 11 - 13 October 2023
- III. **A Parallelization Based Ant Colony Optimization for Travelling Salesman Problem**
KARATAŞ BAYDOĞMUŞ G.
2022 1st International Conference on Information System & Information Technology (ICISIT), 27 July 2022
- IV. **Probability Selection for Solving Sudoku with Ant Colony optimization Algorithm**
KARATAŞ BAYDOĞMUŞ G.
2022 1st International Conference on Information System & Information Technology (ICISIT), 28 July 2022
- V. **Covid-19 Disease Detection with Improved Deep Learning Algorithms on X-Ray Data**
Cicekli N. Z., KARATAŞ BAYDOĞMUŞ G.
2022 International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA), Turkey, 10 June 2022
- VI. **The Effect of Loss and Optimization Functions on Bitcoin Rate Prediction in LSTM**
Kirci B. K., KARATAŞ BAYDOĞMUŞ G.
2022 International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA), Turkey, 10 June 2022
- VII. **Intrusion Detection Systems with GPU-Accelerated Deep Neural Networks and Effect of the Depth**
REIS B., KAYA S. B., KARATAŞ G., ŞAHİNGÖZ Ö. K.
6th International Conference on Control Engineering Information Technology, 25 - 27 October 2018
- VIII. **A Deep Learning Based Intrusion Detection System on GPUs**
KARATAŞ G., DEMİR Ö., ŞAHİNGÖZ Ö. K.
International Conference on Electronics, Computers and Artificial Intelligence- ECAI 2019, 27 - 29 June 2019
- IX. **Intrusion Detection Systems with Deep Learning: A Systematic Mapping Study**
ÖSKEN S., YILDIRIM E. N., KARATAŞ G., CUHACI L.
2019 Scientific Meeting on Electrical-Electronics Biomedical Engineering and Computer Science (EBBT), 24 - 26 April 2019
- X. **Deep Learning in Intrusion Detection Systems**
KARATAŞ G., DEMİR Ö., ŞAHİNGÖZ Ö. K.
International Congress on Big Data, Deep Learning and Fighting Cyber Terrorism, 3 - 04 December 2018
- XI. **Neural Network Based Intrusion Detection Systems with Different Training Functions**
KARATAŞ G., ŞAHİNGÖZ Ö. K.
International Symposium on Digital Forensic and Security, 22 - 25 March 2018
- XII. **Deep Learning in Intrusion Detection Systems**
Karatas G., DEMİR Ö., ŞAHİNGÖZ Ö. K.
International Congress on Big Data, Deep Learning and Fighting Cyber Terrorism (IBIGDELFT), Ankara, Turkey, 3 - 04 December 2018, pp.113-116
- XIII. **Multi-tenant architectures in the cloud: A systematic mapping study**
KARATAŞ G., CAN F., DOĞAN G., KONCA C., AKBULUT A.
Artificial Intelligence and Data Processing Symposium (IDAP), 16 - 17 September 2017
- XIV. **A Systematic Mapping Study on Software Architecture Recovery**
ÇATAL Ç., AKBULUT A., KARATAŞ G., SEZER Z. A.
International Conference on Computer Science and Engineering, 20 October 2016
- XV. **Genetik Algoritma ile Saldırı Tespit Sistemi - Genetic Algorithm For Intrusion Detection System**
KARATAŞ G.
Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Turkey, 16 - 19 May 2016

XVI. Genetic Algorithm For Intrusion Detection System

Karatas G.

24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016,
pp.1341-1344

XVII. Yalın Yazılım Geliştirme Sistematik Eşleme Çalışması

KARATAŞ G., ÇATAL Ç.

8. Ulusal Yazılım Mühendisliği Sempozyumu (UYMS 'xx14), Turkey, 08 September 2014

Supported Projects

Demir Ö., KARATAŞ BAYDOĞMUŞ G., Project Supported by Higher Education Institutions, Derin Öğrenme Yaklaşımı ile Bir Saldırı Tespit Sistemi Uygulaması, 2018 - 2020

Metrics

Publication: 28

Citation (WoS): 81

Citation (Scopus): 322

H-Index (WoS): 3

H-Index (Scopus): 6