Res. Asst. PhD MERVE ÇELEBİ

Personal Information

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International Researcher IDs
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Education Information

Associate Degree, Anadolu University, Açıköğretim Fakültesi, Turkey 2016 - Continues
Doctorate, Gazi University, Bilişim Enstitüsü, Turkey 2019 - 2023
Postgraduate, Gazi University, Bilişim Enstitüsü, Turkey 2015 - 2017
Undergraduate Double Major, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik
Mühendisliği Bölümü, Turkey 2012 - 2014
Undergraduate, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey
2009 - 2014

Foreign Languages

English

Dissertations

Doctorate, Derin paket incelemesi için önerilen yeni bir örüntü eşleştirme algoritması, Gazi University, Bilişim Enstitüsü,
2023
Postgraduate, Veri madenciliği ve makine öğrenmesi kullanılarak suç analizi, Gazi University, Bilişim Enstitüsü, 2017

Research Areas

Information Security and Reliability, Computer Networks, Artificial Intelligence, Computer Learning and Pattern
Recognition, Software

Academic Titles / Tasks

Research Assistant, 2015 - Continues
Research Assistant, Gazi University, Bilişim Enstitüsü, 2015 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

Published Journal Articles Indexed by SCI, SSCI, and AHCI

I. **Accelerating Pattern Matching Using a Novel Multi-Pattern-Matching Algorithm on GPU**
ÇELEBİ M., YAVANOĞLU U.
Applied Sciences (Switzerland), vol.13, no.14, 2023 (SCI-Expanded)

Articles Published in Other Journals

I. **A comprehensive survey on deep packet inspection for advanced network traffic analysis: issues and challenges**
ÇELEBİ M., ÖZBİLEN A., YAVANOĞLU U.
ENGINEERING SCIENCES, vol.12, no.1, pp.1-29, 2023 (Peer-Reviewed Journal)

II. **A New Pattern Matching Algorithm for Deep Packet Inspection**
ÇELEBİ M., YAVANOĞLU U.
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.11, no.3, pp.1546-1562, 2023 (Peer-Reviewed Journal)

III. **General Evaluation and Requirement of Computer Forensics Education**
ORAKCI M., KÖK İ., ÇAKIR H.
INTERNATIONAL JOURNAL OF INFORMATICS TECHNOLOGIES, vol.9, no.2, pp.137-145, 2016 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **Exploiting Network Protocols for Steganographic Communication**
KOCATEPE A. İ., ORAKCI M.
International Conference on Engineering and Natural Sciences, Budapest, Hungary, 3 - 07 May 2017

II. **Cyber Crimes and Criminal Investigation**
ORAKCI M.
International Conference on Engineering and Natural Sciences, Budapest, Hungary, 3 - 07 May 2017, pp.227

III. **Exploration of Secret Relations in Homicide Cases**
ORAKCI M., CİYLAN B.
International Conference on Research in Education & Science, Muğla/Bodrum, Turkey, 19 - 22 May 2016, pp.1354-1359

IV. **Prediction of Unknown Elements in Rape Cases: Machine Learning Approach in Crime Analysis**
ORAKCI M., CİYLAN B.
International Conference on Research in Education & Science, Muğla/Bodrum, Turkey, 19 - 22 May 2016, pp.505-509

V. **A General View of Computer Forensics Education in Turkey: Exigence of Computer Forensics and its Education**
ORAKCI M.
International Conference on Education in Mathematics, Science & Technology, Bodrum/Muğla, Turkey, 19 - 22 May 2016, pp.951-954

VI. **Estimating Victim Type in Credit Card Fraud with the Approach of Artificial Neural Networks**
ORAKCI M., CİYLAN B.
Global Conference on Applied Computing in Science and Engineering, Roma, Italy, 27 - 29 July 2016

VII. **Using Data Mining Techniques and Machine Learning Algorithms in Crime Analysis**
ÇELEBİ M., CİYLAN B., KÖK İ., SEVRİ M.
XVIII. Akademik Bilişim Konferansı, Aydın, Turkey, 30 January - 05 February 2016

Supported Projects

ÇELEBİ M., YAVANOĞLU U., GPU Tabanlı ve Çekirdek Atlamalı Derin Paket İnceleme Modelinin Geliştirilmesi, 2020 - 2022

Metrics

Publication: 11
Citation (Scopus): 2
H-Index (Scopus): 1

ÇELEBİ M., YAVANOĞLU U., GPU Tabanlı ve Çekirdek Atlamalı Derin Paket İnceleme Modelinin Geliştirilmesi, 2020 - 2022