

Dr. Öğr. Üyesi YILDIRAN YILMAZ

Kişisel Bilgiler

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Uluslararası Araştırmacı ID'leri

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Yoksis Araştırmacı ID: 319119

Eğitim Bilgileri

Doktora, University of Southampton, Electronic and Computer Science, Computer Science, Birleşik Krallık 2015 - 2019

Yüksek Lisans, University of Southampton, Electronic and Computer Science, Cyber Security, Birleşik Krallık 2014 - 2015

Lisans, Pamukkale Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Türkiye 2006 - 2010

Yabancı Diller

İngilizce, C2 Ustalık

Yaptığı Tezler

Doktora, LOW-COST SECURITY PROTOCOLS FOR RESOURCE-CONSTRAINED INTERNET OF THINGS DEVICES, University of Southampton, Electronic and Computer Science, Computer Science, 2019

Yüksek Lisans, Crypto Tool for File and Text Encryption, University of Southampton, Electronic and Computer Science, Cyber Security, 2015

Araştırma Alanları

Bilgisayar Bilimleri, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, Recep Tayyip Erdoğan Üniversitesi, Mühendislik ve Mimarlık Fakültesi, Bilgisayar Mühendisliği, 2021 - Devam Ediyor

Öğretim Görevlisi Dr., Recep Tayyip Erdoğan Üniversitesi, Mühendislik Fakültesi, Bilişim Sistemleri Mühendisliği Bölümü, 2020 - Devam Ediyor

Akademik İdari Deneyim

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Neuro-inspired hardware solutions for high-performance computing: A TiO₂-based nano-synaptic device approach with backpropagation**
YILMAZ Y., GÜL F.
Integration, cilt.97, 2024 (SCI-Expanded)
- II. **Stacked ensemble modeling for improved tuberculosis treatment outcome prediction in pediatric cases**
YILMAZ Y.
Concurrency and Computation: Practice and Experience, cilt.36, sa.13, 2024 (SCI-Expanded)
- III. **Predicting Mechanical Properties in Geopolymer Mortars, Including Novel Precursor Combinations, Through XGBoost Method.**
Yılmaz Y., Çakmak T., Kurt Z., Ustabaş İ.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, cilt.1, sa.1, ss.1-25, 2024 (SCI-Expanded)
- IV. **Increasing the performance of a hospital department with budget allocation model and machine learning assisted by simulation**
Alim M., YILMAZ Y., Boz E.
Journal of Simulation, 2024 (SCI-Expanded)
- V. **Accuracy improvement in Ag:a-Si memristive synaptic device-based neural network through Adadelata learning method on handwritten-digit recognition**
YILMAZ Y.
Neural Computing and Applications, cilt.35, sa.33, ss.23943-23958, 2023 (SCI-Expanded)
- VI. **A novel framework for strength prediction of geopolymer mortar: Renovative precursor effect**
KURT Z., YILMAZ Y., ÇAKMAK T., Ustabaş I.
Journal of Building Engineering, cilt.76, 2023 (SCI-Expanded)
- VII. **Correlation value determined to increase Salmonella prediction success of deep neural network for agricultural waters**
Buyrukoglu S., YILMAZ Y., TOPALCENGİZ Z.
ENVIRONMENTAL MONITORING AND ASSESSMENT, cilt.194, sa.5, 2022 (SCI-Expanded)
- VIII. **Comparative Analysis of Energy Costs of Asymmetric vs Symmetric Encryption-Based Security Applications**
Halak B., YILMAZ Y., Shiu D.
IEEE ACCESS, cilt.10, ss.76707-76719, 2022 (SCI-Expanded)
- IX. **ARMOR: An anti-counterefeit security Mechanism for lOw cost Radio frequency identification systems**
YILMAZ Y., Do V., Halak B.
IEEE TRANSACTIONS ON EMERGING TOPICS IN COMPUTING, cilt.9, ss.2125-2138, 2021 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Convolutional neural network for pothole detection in different road and weather conditions**
Gazawy Q., Buyrukoglu S., YILMAZ Y.
MediHealth Academy, cilt.1, 2023 (Hakemli Dergi)
- II. **Novel Machine Learning (ML) Algorithms to Classify IPv6 Network Traffic in Resource-Limited Systems**
YILMAZ Y., BUYRUKOĞLU S., ALIM M.
Computer Science, ss.219-224, 2022 (Hakemli Dergi)

- III. **Development and evaluation of ensemble learning models for detection of DDOS attacks in IoT**
YILMAZ Y., Buyrukoglu S.
Hittite Journal of Science and Engineering, cilt.9, sa.2, ss.73-82, 2022 (Hakemli Dergi)
- IV. **An Approach for Airfare Prices Analysis with Penalized Regression Methods**
Buyrukoglu S., Yilmaz Y.
Veri Bilimi Dergisi, cilt.4, sa.2, ss.57-61, 2021 (Hakemli Dergi)
- V. **A Novel Semi-Automated Chatbot Model: Providing Consistent Response of Students' Email in Higher Education based on Case-Based Reasoning and Latent Semantic Analysis**
Buyrukoglu S., Yilmaz Y.
International Journal of Multidisciplinary Studies and Innovative Technologies, cilt.5, sa.1, ss.6-12, 2021 (Hakemli Dergi)
- VI. **ASSURE: A Hardware-Based Security Protocol for Resource-Constrained IoT Systems**
Yilmaz Y., Aniello L., Halak B.
Journal of Hardware and Systems Security, cilt.5, sa.1, ss.1-18, 2021 (Hakemli Dergi)
- VII. **Covid-19 Impact on Students' Performances in Computer Programming Module Based on Formative Assessment**
Buyrukoğlu S., Yilmaz Y., Buyrukoğlu G.
World Journal of Multidisciplinary Research, cilt.4, sa.1-2, ss.87-94, 2021 (Hakemli Dergi)
- VIII. **Hybrid Machine Learning Model Coupled with School Closure For Forecasting COVID-19 Cases in the Most Affected Countries**
Yilmaz Y., Buyrukoglu S.
Hittite Journal of Science and Engineering, cilt.8, sa.2, ss.123-131, 2021 (Hakemli Dergi)

Kitap & Kitap Bölümleri

- I. **Doğrusal Regresyon Makine Öğrenmesi Metodunu Kullanarak AES ile Şifrelenmiş Tcp/Ip Paketlerinin Ipsec Güvenlikli Ağda Aktarım Süresi Tahmini**
YILMAZ Y.
Teori ve Uygulamada Makine Öğrenmesi, Buyrukoglu Selim, Savaş Serkan, Editör, Nobel Bilimsel, ss.21-35, 2022
- II. **ASSURE: A Hardware-Based Security Protocol for Internet of Things Devices**
YILMAZ Y., Aniello L., Halak B.
Authentication of Embedded Devices, Halak, Basel, Editör, Springer, ss.55-87, 2021
- III. **TIGHTEN: A Two-Flight Mutual Authentication Protocol for Energy-Constrained Devices**
YILMAZ Y., Halak B.
Authentication of Embedded Devices, Halak, Basel, Editör, Springer, ss.89-112, 2021
- IV. **A Hybrid Data Mining Model for Prediction of Alzheimer Disease Stages Using Principal Component Analysis (PCA) and Multilayer Perceptron (MLP)**
YILMAZ Y.
Programming Solutions For Engineering Problems, Ayhan Akbaş Selim Buyrukoğlu Aytül Gökçe, Editör, Nobel Bilimsel, ss.13-35, 2021
- V. **Anti-counterfeiting Techniques for Resources-Constrained Devices**
YILMAZ Y., Do V., Halak B.
Hardware Supply Chain Security, Halak, Basel, Editör, Springer, ss.89-126, 2021

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **TIME SERIES ANALYSIS AND DATA MINING FOR ROBUST SHORT-TERM COMPRESSIVE STRENGTH FORECASTING IN GEOPOLYMER MORTAR: AN ARIMA MODEL DATADRIVEN APPROACH**
Yilmaz Y., Çakmak T.

- 1st International Future Engineering Conference, Şırnak, Türkiye, 25 - 26 Aralık 2023, ss.24-30
- II. **ANOVA Method Reveals Key Factors Influencing Geopolymer Strength: A Comprehensive Evaluation of Input Variables**
YILMAZ Y., ÇAKMAK T., KURT Z.
7th International Symposium on Innovative Approaches in Smart Technologies, ISAS 2023, İstanbul, Türkiye, 23 - 25 Kasım 2023
- III. **Seamlessly Implementable ML based Authentication Method for Resource-Scarce Embedded Systems**
YILMAZ Y.
1st International Karatekin Science and Technology Conference, Çankırı, Türkiye, 1 - 03 Eylül 2022, ss.220-221
- IV. **MÜŞTERİLERİN KURUMSAL SOSYAL SORUMLULUKLARA (KSS) YAKLAŞIMLARININ VE BUNUN MÜŞTERİ SATIN ALMA DAVRANIŞI ÜZERİNDEKİ ETKİSİNİN ANALİZİ**
ALIM M., YILMAZ Y.
4. Uluslararası Mersin Sempozyumu, 22 - 24 Ekim 2020, cilt.4, ss.362-370
- V. **A Two-Flights Mutual Authentication for Energy-Constrained IoT Devices**
Yılmaz Y., Halak B.
2019 IEEE 4th International Verification and Security Workshop (IVSW), Rodos, Yunanistan, 1 - 03 Temmuz 2019, ss.31-36
- VI. **On the Design and Implementation of Security Protocol for Resource-constrained IoT**
YILMAZ Y., Halak B.
The C-IoT organised event on ECS PhD research into IoT, Southampton, Birleşik Krallık, 20 Şubat 2019
- VII. **On the Design and Implementation of Lightweight Authentication and Secure Key Exchange Protocol for Energy-Constrained Systems**
YILMAZ Y., Halak B.
The SET Group Event on Analog Circuit Security in the Digital World, Southampton, Birleşik Krallık, 12 Şubat 2019
- VIII. **Hardware-Based Security Solutions for the Internet of Things**
Halak B., Mark Z., Shengyu D., Elena Woo Lai L., Yılmaz Y., Syafiq M.
RISE Annual Conference, 2018, London, Birleşik Krallık, 14 Kasım 2018
- IX. **Lightweight PUF-Based Authentication Protocol for IoT Devices**
YILMAZ Y., Gunn S. R., Halak B.
2018 IEEE 3rd International Verification and Security Workshop (IVSW), Costa Brava, 2 - 04 Temmuz 2018
- X. **Lightweight Authentication Protocol for IoT Devices**
Yılmaz Y., Gunn S. R., Halak B.
The C-IoT Security Event at the University of Southampton, Southampton, Birleşik Krallık, 26 Haziran 2018
- XI. **PUF-based Authentication and Secure Communication Protocol for Resource-constrained Devices in the Internet of Things**
YILMAZ Y., Halak B.
NCSC Workshop on Safety vs Security: challenges and applications in the cybersecurity era, Southampton, Birleşik Krallık, 14 Ocak 2018
- XII. **Security Protocols for Resource-Constrained Devices**
Yılmaz Y., Basel H.
Arm Research Summit 2017, London, Birleşik Krallık, 11 - 13 Eylül 2017
- XIII. **Cryptotool: A secure data storage software**
YILMAZ Y., Halak B.
The National Conference on Learning and Teaching in Cybersecurity, Birmingham, Birleşik Krallık, 15 Haziran 2016

Metrikler

Yayın: 36

Atf (WoS): 36

Atif (Scopus): 46

H-índeks (WoS): 2

H-índeks (Scopus): 2