Asst. Prof. YILDIRAN YILMAZ

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAW-7629-2020

ScopusID: 57204834372 Yoksis Researcher ID: 319119

Education Information

Doctorate, University of Southampton, Electronic and Computer Science, Computer Science, United Kingdom 2015 - 2019 Postgraduate, University of Southampton, Electronic and Computer Science, Cyber Security, United Kingdom 2014 - 2015 Undergraduate, Pamukkale University, Faculty Of Engineering, Department Of Computer Engineering, Turkey 2006 - 2010

Foreign Languages

English, C2 Mastery

Dissertations

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

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

Research Areas

Computer Sciences, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, BİLGİSAYAR MÜHENDİSLİĞİ, 2021 - Continues

Lecturer PhD, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, BİLGİSAYAR MÜHENDİSLİĞİ, 2020 - 2020

Academic and Administrative Experience

Deputy Head of Department, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, BİLGİSAYAR MÜHENDİSLİĞİ, 2020 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

I. Predicting Mechanical Properties in Geopolymer Mortars, Including Novel Precursor Combinations, Through XGBoost Method.

Yılmaz Y., Çakmak T., Kurt Z., Ustabaş I.

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.50, pp.2009-2033, 2025 (SCI-Expanded)

II. Neuro-inspired hardware solutions for high-performance computing: A TiO2-based nano-synaptic device approach with backpropagation

Yilmaz Y., Gül F.

Integration, vol.97, 2024 (SCI-Expanded)

III. Stacked ensemble modeling for improved tuberculosis treatment outcome prediction in pediatric cases

Yilmaz Y

Concurrency and Computation: Practice and Experience, vol.36, no.13, 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 Adadelta learning method on handwritten-digit recognition

Yilmaz Y.

Neural Computing and Applications, vol.35, no.33, pp.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, vol.76, 2023 (SCI-Expanded)

VII. Correlation value determined to increase Salmonella prediction success of deep neural network for agricultural waters

Buyrukoglu S., Yilmaz Y., Topalcengiz Z.

ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.194, no.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, vol.10, pp.76707-76719, 2022 (SCI-Expanded)

IX. ARMOR: An anti-counteRfeit security Mechanism for lOw cost Radio frequency identification systems YILMAZ Y., Do V., Halak B.

IEEE TRANSACTIONS ON EMERGING TOPICS IN COMPUTING, vol.9, pp.2125-2138, 2021 (SCI-Expanded)

Articles Published in Other Journals

I. Convolutional neural network for pothole detection in different road and weather conditions Gazawy Q., Buyrukoglu S., Yilmaz Y.

MediHealth Academy, vol.1, 2023 (Peer-Reviewed Journal)

II. Novel Machine Learning (ML) Algorithms to Classify IPv6 Network Traffic in Resource-Limited Systems

YILMAZ Y., BUYRUKOĞLU S., ALIM M.

Computer Science, pp.219-224, 2022 (Peer-Reviewed Journal)

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, vol.9, no.2, pp.73-82, 2022 (Peer-Reviewed Journal)

IV. An Approach for Airfare Prices Analysis with Penalized Regression Methods

Buyrukoglu S., Yılmaz Y.

Veri Bilimi Dergisi, vol.4, no.2, pp.57-61, 2021 (Peer-Reviewed Journal)

V. A Novel Semi-Automated Chatbot Model: Providing Consistent Response of Students' Email in Higher Education based on Case-Based Reasoningand Latent Semantic Analysis

Buyrukoglu S., Yılmaz Y.

International Journal of Multidisciplinary Studies and Innovative Technologies, vol.5, no.1, pp.6-12, 2021 (Peer-Reviewed Journal)

VI. ASSURE: A Hardware-Based Security Protocol for Resource-Constrained IoT Systems

Yılmaz Y., Aniello L., Halak B.

Journal of Hardware and Systems Security, vol.5, no.1, pp.1-18, 2021 (Peer-Reviewed Journal)

VII. Covid-19 Impact on Students' Performances in Computer Programming Module Based on Formative
Assessment

Buyrukoğlu S., Yılmaz Y., Buyrukoğlu G.

World Journal of Multidisciplinary Research, vol.4, no.1-2, pp.87-94, 2021 (Peer-Reviewed Journal)

VIII. Hybrid Machine Learning Model Coupled with School Closure For Forecasting COVID-19 Cases in the Most Affected Countries

Yılmaz Y., Buyrukoglu S.

Hittite Journal of Science and Engineering, vol.8, no.2, pp.123-131, 2021 (Peer-Reviewed Journal)

Books

I. Doğrusal Regresyon Makine Öğrenmesi Metodunu Kullanarak AES ile Şifrelenmiş Tcp/Ip Paketlerinin Ipsec Güvenlikli Ağda Aktarim Süresi Tahmini

YILMAZ Y.

in: Teori ve Uygulamada Makine Öğrenmesi, Buyrukoglu Selim, Savaş Serkan, Editor, Nobel Bilimsel, pp.21-35, 2022

II. A Hybrid Data Mining Model for Prediction of Alzheimer Disease Stages Using Principal Component Analysis (PCA) and Multilayer Perceptron (MLP)

YILMAZ Y.

in: Programming Solutions For Engineering Problems, Ayhan Akbaş Selim Buyrukoğlu Aytül Gökçe, Editor, Nobel Bilimsel, pp.13-35, 2021

Refereed Congress / Symposium Publications in Proceedings

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

Yılmaz Y., Çakmak T.

1st International Future Engineering Conference, Şırnak, Turkey, 25 - 26 December 2023, pp.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, Turkey, 23 - 25 November 2023

III. Seamlessly Implementable ML based Authentication Method for Resource-Scarce Embedded Systems

YILMAZ Y.

1st International Karatekin Science and Technology Conference, Çankırı, Turkey, 1 - 03 September 2022, pp.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 October 2020, vol.4, pp.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, Greece, 1 - 03 July 2019, pp.31-36

VI. 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 July 2018

VII. Cryptotool: A secure data storage software

YILMAZ Y., Halak B.

The National Conference on Learning and Teaching in Cybersecurity, Birmingham, United Kingdom, 15 June 2016

Supported Projects

Yilmaz Y., Baltacı M. O., Ayça S., TUBITAK Project, Topluluk Katılımlı Cografi Bilgilendirme Sistemi, 2024 - 2025 Yilmaz Y., Gümüşler M. A., Dervişoğlu G., TUBITAK Project, Yapay Zekâ Destekli Sanal Giyim Deneme Platformu, 2024 - 2025

Yilmaz Y., Yüksel M., Eroğlu H., Gül F., TUBITAK Project, Gıda Güvenliğinde Sevkiyat Ve Soğuk Zincir Uygulamaları Için, Nesnelerin İnterneti (Iot) Tabanlı, Çok Amaçlı Takip Cihazı Geliştirilmesi, 2022 - 2024

Metrics

Publication: 34
Citation (WoS): 36
Citation (Scopus): 61
H-Index (WoS): 2
H-Index (Scopus): 3