

## Dr. Öğr. Üyesi YILDIRAN YILMAZ

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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

ScopusID: 57204834372

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 ve Mimarlık Fakültesi, Bilgisayar Mühendisliği, 2020 - 2020

## AKADEMİK İDARI DENEYİM

Bölüm Başkan Yardımcısı, Recep Tayyip Erdoğan Üniversitesi, Mühendislik ve Mimarlık Fakültesi, Bilgisayar Mühendisliği,  
2020 - Devam Ediyor

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- 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, cilt.50, ss.2009-2033, 2025 (SCI-Expanded)
- II. **Neuro-inspired hardware solutions for high-performance computing: A TiO<sub>2</sub>-based nano-synaptic device approach with backpropagation**  
Yılmaz Y., Gül F.  
Integration, cilt.97, 2024 (SCI-Expanded)
- III. **Stacked ensemble modeling for improved tuberculosis treatment outcome prediction in pediatric cases**  
Yılmaz Y.  
Concurrency and Computation: Practice and Experience, cilt.36, sa.13, 2024 (SCI-Expanded)
- IV. **Increasing the performance of a hospital department with budget allocation model and machine learning assisted by simulation**  
Alim M., Yılmaz 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**  
Yılmaz 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., Yılmaz 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., Yılmaz Y., Topalcengiz 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., Yılmaz Y., Shiu D.  
IEEE ACCESS, cilt.10, ss.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, 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., Yılmaz 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)

## Kitaplar

- 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. **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

## 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.  
1<sup>st</sup> 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. 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

**VII. 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

## **Desteklenen Projeler**

Yılmaz Y., Baltacı M. O., Ayça S., TÜBİTAK Projesi, Topluluk Katılımlı Coğrafi Bilgilendirme Sistemi, 2024 - 2025

Yılmaz Y., Gümüşler M. A., Dervişoğlu G., TÜBİTAK Projesi, Yapay Zekâ Destekli Sanal Giyim Deneme Platformu, 2024 - 2025

Yılmaz Y., Yüksel M., Eroğlu H., Gül F., TÜBİTAK Projesi, Gıda Güvenliğinde Sevkiyat Ve Soğuk Zincir Uygulamaları İçin, Nesnelerin İnterneti (Iot) Tabanlı, Çok Amaçlı Takip Cihazı Geliştirilmesi, 2022 - 2024

## **Metrikler**

Yayın: 34

Atıf (WoS): 36

Atıf (Scopus): 61

H-İndeks (WoS): 2

H-İndeks (Scopus): 3