

## Asst. Prof. MEHMET SEVRİ

### Personal Information

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### International Researcher IDs

ScholarID: P3Xb43EAAAAJ

ORCID: 0000-0002-1551-9476

Publons / Web Of Science ResearcherID: AHB-4270-2022

ScopusID: 57350018000

Yoksis Researcher ID: 132841

### Education Information

Doctorate, Gazi University, Bilişim Enstitüsü, Information Systems, Turkey 2016 - 2022

Postgraduate, Gazi University, Bilişim Enstitüsü, Information Systems, Turkey 2013 - 2016

Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey 2005 - 2011

Undergraduate, Roskilde Universitetcenter (Roskilde University), International Bachelor in Natural Science , Computer Science, Denmark 2008 - 2009

### Dissertations

Doctorate, ENSURING WEB APPLICATION SECURITY USING DEEP LEARNING METHODS, Gazi University, Bilişim Enstitüsü, Information Systems, 2022

Postgraduate, Development of an ai-based security module for the detection of web attacks, Gazi University, Bilişim Enstitüsü, 2016

### Research Areas

Computer Sciences, algorithms, Information Security and Reliability, Information System Reliability, Software Security, Artificial Intelligence, Computer Learning and Pattern Recognition, Text/Document Processing, Pattern Recognition and Image Processing, Programming Languages

### Academic Titles / Tasks

Assistant Professor, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, BİLGİSAYAR MÜHENDİSLİĞİ, 2023 - Continues

Research Assistant PhD, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, BİLGİSAYAR MÜHENDİSLİĞİ, 2022 - 2023

Research Assistant, Gazi University, Bilişim Enstitüsü, Information Systems, 2013 - 2022

Research Assistant, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, BİLGİSAYAR MÜHENDİSLİĞİ, 2013 - 2013

## Courses

System Programming, Undergraduate, 2022 - 2023  
Bioinformatic, Undergraduate, 2022 - 2023  
Deep Learning, Undergraduate, 2023 - 2024  
WEB AND MOBILE PROGRAMMING, Undergraduate, 2022 - 2023  
Artificial Intelligence, Undergraduate, 2022 - 2023  
OPERATING SYSTEMS, Undergraduate, 2022 - 2023

## Taught Courses And Trainings

Sevri M., WEB DESIGN, 2021 - 2022  
Sevri M., CERTIFIED ETHICAL HACKER, 2021 - 2022  
Sevri M., CYBER SECURITY EXPERT, 2021 - 2022  
Sevri M., C++ PROGRAMMING, 2018 - 2018

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A New Objective Diagnostic Tool for Attention-Deficit Hyper-Activity Disorder (ADHD): Development of the Distractor-Embedded Auditory Continuous Performance Test**  
Özaslan A., Sevri M., İşeri E., Karacan B., Karacan H., Cengiz M., Sarıpınar E. G., Uğraş Dikmen A., Güney E.  
JOURNAL OF CLINICAL MEDICINE, vol.13, no.21, pp.1-18, 2024 (SCI-Expanded)
- II. **A New Objective Diagnostic Tool for ADHD: Development of the Web-Based Auditory-Focused Continuous Performance Test**  
İşeri E., Sevri M., Özaslan A., Karacan B., Karacan H., Sarıpınar E. G., Güney E.  
JOURNAL OF THE AMERICAN ACADEMY OF CHILD AND ADOLESCENT PSYCHIATRY, vol.61, no.10, pp.234, 2022 (SCI-Expanded)
- III. **Two Stage Deep Learning Based Stacked Ensemble Model for Web Application Security**  
SEVRİ M., KARACAN H.  
KSII TRANSACTIONS ON INTERNET AND INFORMATION SYSTEMS, vol.16, no.2, pp.632-657, 2022 (SCI-Expanded)
- IV. **A Novel Data Augmentation Technique and Deep Learning Model for Web Application Security**  
KARACAN H., SEVRİ M.  
IEEE ACCESS, vol.9, pp.150781-150797, 2021 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Crime Analysis Based on Association Rules Using Apriori Algorithm**  
SEVRİ M., Karacan H., Akcayol M. A.  
International Journal of Information and Electronics Engineering, no.7, pp.99-102, 2017 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Explainable Artificial Intelligence (XAI) for Deep Learning Based Intrusion Detection Systems**  
SEVRİ M., KARACAN H.  
in: Engineering Cyber-Physical Systems and Critical Infrastructures, D. Jude Hemanth, Tuncay Yigit, Utku Kose, Ugur Guvenc, Editor, Springer Nature, Cham, pp.39-55, 2023

## Refereed Congress / Symposium Publications in Proceedings

- I. **Explainable Artificial Intelligence (XAI) for Deep Learning Based Intrusion Detection Systems**  
SEVRİ M., KARACAN H.  
4th International Conference on Artificial Intelligence and Applied Mathematics in Engineering (ICAIAME 2022), Baku, Azerbaijan, 20 May 2022
- II. **Bidirectional LSTM based Intrusion Detection System for Web Applications**  
SEVRİ M., KARACAN H.  
International Conference on All Aspects of Cyber Security (A2CS'19), Adana, Turkey, 25 October 2019, pp.53-57
- III. **Student Information Platform, Gazi University Example**  
AL M. E., SEVRİ M., DÖKMETAŞ B., AKÇAM N.  
6. Uluslararası Multidisipliner Çalışmaları Kongresi (Multicongress), 26 - 27 April 2019
- IV. **Deep Learning Based Web Application Security**  
SEVRİ M., KARACAN H.  
2nd International Conference on Advanced Technologies, Computer Engineering and Science (ICATCES), 26 - 27 April 2019, pp.349-354
- V. **Secure Multiparty Computation and Blockchain-Smart Contract Based Election System**  
SEVRİ M., KOŞAN M. A., KARACAN H.  
International Conference on Applied Mathematics in Engineering (ICAME), Balıkesir, Turkey, 27 - 29 June 2018
- VI. **Comparison of Classification Algorithms used in Intrusion Detection Systems**  
KOŞAN M. A., SEVRİ M., KARACAN H.  
International Conference on Applied Mathematics in Engineering (ICAME), Balıkesir, Turkey, 27 - 29 June 2018
- VII. **Blockchain Technology and Its Use as a Notarial System**  
SEVRİ M., KOCATEPE A. İ., KARACAN H., ARI E. S.  
1. ULUSLARARASI İLERİ ARAŞTIRMALAR VE MÜHENDİSLİK KONGRESİ, Osmaniye, Turkey, 16 - 18 November 2017, pp.1377-1378
- VIII. **Spy Attacks and Protection Methods in Android Smart Phones**  
KOŞAN M. A., SEVRİ M., KARACAN H.  
1. ULUSLARARASI İLERİ ARAŞTIRMALAR VE MÜHENDİSLİK KONGRESİ, Osmaniye, Turkey, 16 - 18 November 2017, pp.1385-1386
- IX. **Utilizing Linear Feedback Shift Registers for Selective-Random Memory Addressing**  
KOCATEPE A. İ., SEVRİ M., KARACAN H.  
1. ULUSLARARASI İLERİ ARAŞTIRMALAR VE MÜHENDİSLİK KONGRESİ, Osmaniye, Turkey, 16 - 18 November 2017, pp.1381-1382
- X. **Applying Deep Learning to Cybersecurity Field and Its Advantages**  
SEVRİ M., KOŞAN M. A., KARACAN H.  
1. ULUSLARARASI İLERİ ARAŞTIRMALAR VE MÜHENDİSLİK KONGRESİ, Osmaniye, Turkey, 16 - 18 November 2017, pp.1407-1408
- XI. **Üstün Yetenekli/Zekalı Öğrencilerin Belirlenmesinde Veri Madenciliği Algoritmalarının Kullanılması ve Sınıflandırma Modellerinin Performans Karşılaştırması**  
SEVRİ M., KARACAN H.  
International Talented And Gifted Conference: New Approaches and Educational Practices, Ankara, Turkey, 4 - 06 May 2017, pp.96
- XII. **Crime Analysis Based on Association Rules Using Apriori Algorithm**  
SEVRİ M., KARACAN H., AKCAYOL M. A.  
4th International Conference on Electrical and Electronics Engineering (ICEEE 2017), Ankara, Turkey, 8 - 10 April 2017
- XIII. **TÜRKİYE DE SİBER GÜVENLİK EĞİTİMİNİN DURUMU**  
SEVRİ M., TOPALOĞLU N.  
International Conference on Education in Mathematics, Science & Technology (ICEMST), Muğla, Turkey, 19 - 22 May 2016, pp.923-928

#### XIV. **MEB WEB SİTESİ KULLANILABİLİRLİK VE PERFORMANS ANALİZİ**

SEVRİ M., HAKYEMEZ S.

International Conference on Education in Mathematics, Science & Technology (ICEMST), Muğla, Turkey, 19 - 22 May 2016, pp.971-980

#### XV. **SON BİLGİSAYAR KORSANLIĞI EĞİLİMİ FİDYE ZARARLIYAZILIMI VE MUHTEMEL GELECEĞİ**

SEVRİ M., TOPALOĞLU N.

International Conference on Research in Education and Science (ICRES), Muğla, Turkey, 19 - 22 May 2016, pp.1347-1353

#### XVI. **WEB ATAKLARININ MAKİNA ÖĞRENME ALGORİTMALARI İLESINIFLANDIRILMASI BİR UYGULAMA ÖRNEĞİ**

SEVRİ M., TOPALOĞLU N.

International Conference on Research in Education and Science (ICRES), Muğla, Turkey, 19 - 22 May 2016, pp.489-494

#### XVII. **An Infrastructure Model to Detect and Prevent Web Attacks**

SEVRİ M., TOPALOĞLU N.

Global Conference on Applied Computing in Science and Engineering, Roma, Italy, 27 - 29 July 2016

#### XVIII. **Suç Analizinde Veri Madenciliği Teknikleri ve Makine Öğrenmesi Algoritmalarının Kullanılması**

ORAKÇI M., CİYLAN B., KÖK İ., SEVRİ M.

Akademik Bilişim Konferansı, Aydın, Turkey, 15 - 17 February 2016

#### XIX. **Bilinçsiz DNS Değiştirme ve Riskleri**

SEVRİ M., TOPALOĞLU N.

Akademik Bilişim 2015, Turkey, 4 - 06 February 2015

### **Supported Projects**

Sevri M., Yılmaz B., Sazak Turgut Ç., Ayazoğlu İ. M., Doğan Polat S., Yılmaz A., TUBITAK Project, Development of a Novel Artificial Intelligence Decision Support System for the Detection and Management of Preeclampsia Using Biochemical and Ultrasonographic Markers, 2024 - 2027

Sevri M., TUBITAK Project, Artificial Intelligence Based Power Generation Forecasting Software for Canal Type Hydroelectric Power Plants, 2024 - 2026

Sevri M., Kıran E., Çelik A. B., Kolay H., Project Supported by Higher Education Institutions, SafeScript Artificial Intelligence Powered Smart Medication Management and Prescribing System, 2024 - 2025

İşeri E., Sevri M., Özaslan A., Karacan H., Güney E., Sarıpınar E. G., TUBITAK Project, Dikkat Eksikliği Hiperaktivite Bozukluğunda Tanı Koymaya Yardımcı Objektif Araç: Web Tabanlı İşitsel Odaklı ve Çeldiricili Sürekli Performans Testi (d-CPT) Geliştirilmesi, 2020 - 2022

### **Patent**

Sevri M., SYSTEM AND METHOD OF IDENTIFYING VEHICLES, DETERMINING SPEED AND LOCATION INFORMATION WITH ACTIVE RFID TAGS PLACED ON VEHICLE LICENSE PLATES, Patent, CHAPTER H Electricity, The Invention Recourse Number: 2024/018939 , Standard Registration, 2024

Sevri M., CLOTHING AND OUTFIT RECOMMENDATION SYSTEM AND METHOD WITH RFID SUPPORTED SMART MIRROR, Patent, CHAPTER H Electricity, The Invention Recourse Number: 2024/018960 , Standard Registration, 2024

Sevri M., SIGNAL AND COVERAGE OPTIMIZATION SYSTEM AND METHOD WITH ARTIFICIAL INTELLIGENCE CONTROLLED DYNAMIC ANTENNA MODEM, Patent, CHAPTER H Electricity, The Invention Recourse Number: 2024/018955 , Standard Registration, 2024

Sevri M., REMAINING USEFUL LIFE ESTIMATION SYSTEM AND METHOD FOR UNMANNED AERIAL VEHICLES WITH MACHINE LEARNING MODELS BASED ON SENSOR AND CAMERA DATA, Patent, CHAPTER H Electricity, The Invention Recourse Number: 2024/019089 , Standard Registration, 2024

Sevri M., ARTIFICIAL INTELLIGENCE SUPPORTED INTELLIGENT INSECT TRACKING AND SPRAYING ROBOT AND WORKING METHOD, Patent, CHAPTER H Electricity, The Invention Recourse Number: 2024/018832 , Standard Registration, 2024

Sevri M., Karacan H., EXPLAINABLE DEEP LEARNING BASED WEB APPLICATION FIREWALL METHOD AND SYSTEM THEREOF, Patent, CHAPTER H Electricity, The Invention Recourse Number: PCT/TR2022/051479 , Standard Registration, 2022

Sevri M., Karacan H., EXPLAINABLE DEEP LEARNING BASED WEB APPLICATION FIREWALL METHOD AND SYSTEM, Patent, CHAPTER A Human Needs, The Invention Recourse Number: 2021/020072 , Standard Registration, 2021

## Student Project

Software Project, MediMatch: Smart Medication Management System, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, BİLGİSAYAR MÜHENDİSLİĞİ, Turkey, 2024 - Continues

Software Project, Smart Recycling Project, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, BİLGİSAYAR MÜHENDİSLİĞİ, Turkey, 2024 - Continues

Software Project, Pharmavent, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, BİLGİSAYAR MÜHENDİSLİĞİ, Turkey, 2024 - Continues

Software Project, Smart Plant Growing Capsule, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, BİLGİSAYAR MÜHENDİSLİĞİ, Turkey, 2024 - Continues

## Activities in Scientific Journals

The International Journal of Engineering Research and Development (IJERAD), Committee Member, 2025 - Continues

Recep Tayyip Erdogan University Journal of Science and Engineering, Committee Member, 2024 - Continues

The Journal of Information Technologies (JIT), Editor, 2024 - Continues

## Scientific Refereeing

KOSGEB, Yenilenebilir Enerji Santrallerine Yönelik Enerji Üretim Tahmini Yazılımı, Turkey, October 2022

KOSGEB, Madencilik ve Taş Ocakçılığı Sektöründe Tesis Akış Simülasyonu, Turkey, October 2022

Eskişehir Osmangazi Üniversitesi mühendislik ve mimarlık fakültesi dergisi (online), Other Indexed Journal, September 2022

The Journal of Information Technologies, Other Indexed Journal, March 2022

KSII TRANSACTIONS ON INTERNET AND INFORMATION SYSTEMS, SCI Journal, April 2019

## Tasks In Event Organizations

Sevri M., 10th International Conference On Electrical And Electronics Engineering (ICEEE 2023), Scientific Congress, İstanbul, Turkey, Mayıs 2023

Sevri M., 2nd International Conference on Computer Engineering, Technologies and Applications (CETA2023), Scientific Congress, İstanbul, Turkey, Mayıs 2023

Sevri M., The 2nd International Conference on Informatics and Computer Science (ICI-CS2022), Scientific Congress, Ankara, Turkey, Aralık 2022

Sevri M., 9th International Conference On Electrical And Electronics Engineering (ICEEE 2022), Scientific Congress, Antalya, Turkey, Mart 2022

Sevri M., International Conference on Informatics and Computer Science (ICI-CS2021), Scientific Congress, Ankara, Turkey, Aralık 2021

## **Metrics**

Publication: 25

## **Awards**

Sevri M., First Prize in the Most Successful Doctoral Thesis Competition, Gazi Üniversitesi, January 2024

## **Non Academic Experience**

University, Kilis 7 Aralık Üniversitesi, Bilgi İşlem Daire Başkanlığı  
Company, Turkcell İletişim Hizmetleri A.Ş., Transmission Departman