

# Prof. BÜNYAMİN CİYLAN

## Personal Information

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## International Researcher IDs

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Publons / Web Of Science ResearcherID: ABC-3155-2020

ScopusID: 6504223643

Yoksis Researcher ID: 53446

## Education Information

Doctorate, Gazi University, Bilişim Enstitüsü, Elektronik Ve Bilgisayar Eğitimi Anabilim Dalı (Disiplinlerarası), Turkey 1999 - 2009

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Elektronik Bilgisayar Eğitimi (YI) (Tezli), Turkey 1997 - 1999

Undergraduate, Gazi University, Teknik Eğitim Fakültesi, Elektronik Ve Bilgisayar Eğitimi Bölümü, Turkey 1992 - 1996

## Dissertations

Doctorate, Termoelektrik modüller için mikrodenetleyici kontrollü yeni bir test sisteminin tasarımı ve gerçekleştirilmesi, Gazi University, Bilişim Enstitüsü, Elektronik Ve Bilgisayar Eğitimi Anabilim Dalı (Disiplinlerarası), 2009

Postgraduate, Mikrodenetleyici kontrollü uzaktan sıvı seviye kontrol sistemi tasarımı ve gerçekleştirilmesi, Gazi University, Fen Bilimleri Enstitüsü, Elektronik Bilgisayar Eğitimi (YI) (Tezli), 1999

## Research Areas

Hiding Information, Information System Reliability, Hardware Security, Equipment, Input/Output, Memory and Storage, Processor Architectures, Logic Design, Integrated Circuits

## Academic Titles / Tasks

Professor, Gazi University, Teknoloji Fakültesi, Bilgisayar Mühendisliği, 2023 - Continues

Associate Professor, Gazi University, Teknoloji Fakültesi, Bilgisayar Mühendisliği, 2014 - 2023

Assistant Professor, Gazi University, Teknoloji Fakültesi, Bilgisayar Mühendisliği, 2012 - 2014

Expert, Gazi University, Teknik Eğitim Fakültesi, Elektronik ve Bilgisayar Eğitimi, 1998 - 2012

## Academic and Administrative Experience

Gazi University, Bilişim Enstitüsü, 2016 - 2018

Gazi University, Bilişim Enstitüsü, Adli Bilişim Anabilim Dalı (Disiplinlerarası), 2015 - 2018

## Courses

Bilgi Güvenliği Esasları, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2019 - 2020  
SAYISAL ELEKTRONİK DEVRELER, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Sayısal Elektronik Devreler (LAB), Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018  
Sayısal Tasarım, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019  
BMT-207, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019  
BİLGİ GÜVENLİĞİ, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017  
SAYISAL TASARIM-2 (LAB), Undergraduate, 2017 - 2018, 2016 - 2017  
SAYISAL TASARIM-2, Undergraduate, 2017 - 2018, 2016 - 2017  
SAYISAL TASARIM-1 (LAB), Undergraduate, 2017 - 2018, 2016 - 2017  
SAYISAL TASARIM-1, Undergraduate, 2017 - 2018, 2016 - 2017  
Bilgi Güvenliği, Doctorate, 2016 - 2017

## Advising Theses

CİYLAN B., Route Optimization For Unmanned Aerial Vehicles In Flight Restricted Areas, Postgraduate, S.AGHAZADA(Student), 2020  
CİYLAN B., TWITTER ÜZERİNDEKİ İSLAMOFOBİK TWEETLERİN DUYGU ANALİZİ İLE TESPİTİ, Postgraduate, B.AYAN(Student), 2020  
CİYLAN B., Yerel ağlardan DNS tünelleme yöntemiyle veri kaçırılmasının tespitine yönelik bir yaklaşım, Postgraduate, U.TANIK(Student), 2019  
CİYLAN B., Design And Implementation Of The Early Warning Autonomous System For Field Safety Using Lidar And Quadcopter, Postgraduate, A.EMRE(Student), 2018  
CİYLAN B., Privileged Account Access Control System Application Model In Enterprise Networks, Postgraduate, E.SINDİREN(Student), 2018  
CİYLAN B., Kurumsal ağlarda ayrıcalıklı hesap erişim kontrol sistemi uygulama modeli, Postgraduate, E.SİNDİREN(Student), 2018  
CİYLAN B., Crime Analysis Using Data Mining And Machine Learning, Postgraduate, M.Orakcı(Student), 2017  
CİYLAN B., Veri madenciliği ve makine öğrenmesi kullanılarak suç analizi, Postgraduate, M.ORAKCI(Student), 2017  
CİYLAN B., Effect Of Eap Authentication Protocol Types On Energy Consumption, Postgraduate, H.İBRAHİM(Student), 2015  
CİYLAN B., A dynamic solution model for cyber attacks, Postgraduate, A.KÖR(Student), 2015  
CİYLAN B., An original Spyware design by using windows functions and preventive measures, Postgraduate, M.DAMA(Student), 2014

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

- I. **FPGA-Based Chaotic Image Encryption Using Systolic Arrays**  
Ciyilan F., CİYLAN B., ATAK M.  
Electronics (Switzerland), vol.12, no.12, 2023 (SCI-Expanded)
- II. **Unsupervised Forgery Detection of Documents: A Network-Inspired Approach**  
Al-Ameri M. A. A., Mahmood B., Ciyilan B., Amged A.  
Electronics (Switzerland), vol.12, no.7, 2023 (SCI-Expanded)

- III. **Spectral Data Analysis for Forgery Detection in Official Documents: A Network-Based Approach**  
Abdulbasit Ali Al-Ameri M., Ciylan B., Mahmood B.  
ELECTRONICS (Basel), vol.11, no.23, pp.1-17, 2022 (SCI-Expanded)
- IV. **Colored Image Encryption and Decryption with a New Algorithm and a Hyperchaotic Electrical Circuit**  
Arpaci B., Kurt E., Çelik K., Ciylan B.  
JOURNAL OF ELECTRICAL ENGINEERING & TECHNOLOGY, vol.15, no.3, pp.1413-1429, 2020 (SCI-Expanded)
- V. **Application model for privileged account access control system in enterprise networks**  
Sindiren E., Ciylan B.  
COMPUTERS & SECURITY, vol.83, pp.52-67, 2019 (SCI-Expanded)
- VI. **Bifurcation analysis of a resistor-double inductor and double diode circuit and a comparison with a resistor-inductor-diode circuit in phase space and parametrical responses**  
Kurt E., Ciylan B., Taskan O. O., Kurt H. H.  
SCIENTIA IRANICA, vol.21, no.3, pp.935-944, 2014 (SCI-Expanded)
- VII. **Prediction of the brain temperature from other body temperatures in hypothermia induced rats by using artificial neural networks**  
DEMİREL H., GÖKTAŞ H. H., ERKAL B., CİYLAN B.  
COMPUTERS IN BIOLOGY AND MEDICINE, vol.42, no.7, pp.772-777, 2012 (SCI-Expanded)
- VIII. **Determination of Output Parameters of a Thermoelectric Module using Artificial Neural Networks**  
Ciylan B.  
ELEKTRONIKA IR ELEKTROTEHNIKA, no.10, pp.63-66, 2011 (SCI-Expanded)
- IX. **Design of a thermoelectric module test system using a novel test method**  
Ciylan B., Yilmaz S.  
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.46, no.7, pp.717-725, 2007 (SCI-Expanded)
- X. **Design of a universal thermoelectric module test system for testing rat brain thermoelectric hypothermia**  
Demirel H., Ciylan B., ERKAL B., Yilmaz S.  
IET SCIENCE MEASUREMENT & TECHNOLOGY, vol.1, no.3, pp.160-165, 2007 (SCI-Expanded)
- XI. **A new test method and system for the measurement of Z-parameter of standard peltier modules**  
**Standart Termoelektrik Modülün Z Parametresinin Ölçülmesi İçin Yeni Yöntem ve Yeni Sistem**  
Ahıska R., Ciylan B., Savaş Y., Güler İ.  
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.19, no.4, pp.467-473, 2004 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Early Detection and Diagnosis of Breast Cancer Based on Machine Learning Supported by Feature Selection**  
akyel c., Ciylan B., Polat H.  
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.12, no.2, pp.675-690, 2024 (Peer-Reviewed Journal)
- II. **Fake human face recognition with classical-quantum hybrid transfer learning**  
Ciylan F., Ciylan B.  
Computers and Informatics, vol.1, no.1, pp.46-55, 2021 (Peer-Reviewed Journal)
- III. **Twitter Üzerindeki İslamofobik Twitlerin Duygu Analizi ile Tespiti**  
Ayan B., Kuyumcu B., Ciylan B.  
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.7, no.2, pp.495-502, 2019 (Peer-Reviewed Journal)
- IV. **DNS TUNNELING EFFECT ON DNS PACKET SIZES**  
Güdekli U. T., Ciylan B.

International Journal of Computer Science and Mobile Computing, vol.8, no.1, pp.154-162, 2019 (Scopus)

**V. Implementation of Message Encryption Algorithms in Real Time Closed Network Systems**

Ataç S., CİYLAN B.

GAZİ UNIVERSITY JOURNAL OF SCIENCE PART A: ENGINEERING AND INNOVATION, vol.5, no.3, pp.89-100, 2018  
(Peer-Reviewed Journal)

**VI. Privileged Account Management Approach for Preventing Insider Attacks**

Sindiren E., Ciyilan B.

INTERNATIONAL JOURNAL OF COMPUTER SCIENCE AND NETWORK SECURITY, vol.18, no.1, pp.33-42, 2018 (ESCI)

**VII. ANALYSIS OF MOBILE COMMUNICATION SIGNALS WITH FREQUENCY ANALYSIS METHOD**

Savaş S., Topaloğlu N., Ciyilan B.

GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.25, no.2, pp.447-454, 2012 (Scopus)

**VIII. Mikrodenetleyici Kontrollü Uzaktan Sıvı Seviye Kontrol Sistemi**

Savaş Y., Ciyilan B.

JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, vol.2, no.3, pp.49-58, 1999 (Peer-Reviewed Journal)

## Books & Book Chapters

**I. Masaüstü Yayıncılıkta Baskı Öncesi Hazırlık ve Photoshop Uygulamaları**

Türk S., Kansu N., Ciyilan B.

Gazi Yayın Dağıtım, Ankara, 2007

**II. İşlemsel Yükselteç ve Devre Deneyleri**

Savaş Y., Demirel H., Ciyilan B.

Gazi Yayın Dağıtım, Ankara, 2003

**III. Temel Bilgi Teknolojileri Kullanımı**

Bay Ö. F., Erdem O. A., Demirel H., Ciyilan B., Erkal B.

Gazi Kitapevi, Ankara, 2002

**IV. Elektronik Devre Elemanları ve Devre Deneyleri I**

GÜLER İ., SAVAŞ Y., CANAL M. R., DEMİREL H., CİYLAN B.

Gazi, 2001

## Refereed Congress / Symposium Publications in Proceedings

**I. Computational Methods for Forgery Detection in Printed Official Documents**

Alameri M. A. A., Ciyilan B., Mahmood B.

2022 ASU International Conference in Emerging Technologies for Sustainability and Intelligent Systems, ICETSIS  
2022, Virtual, Online, Bahrain, 22 - 23 June 2022, pp.307-313

**II. Blood Diseases Detection Using Data Mining Techniques**

Al-Ameri M. A., CİYLAN B., Almassri S. D.

6th International Conference on Computer Science and Engineering, UBMK 2021, Ankara, Turkey, 15 - 17  
September 2021, pp.73-77

**III. Optimal Route Planning for Unmanned Aerial Vehicles in Flight Restricted Zones with Ant Colony Algorithm**

Aghazada S., CİYLAN B.

Int. Conf. Advanced. Mater. Sci.& Eng. HiTech.and Device Appl.Oct. 02-04 2020,Ankara, Turkey, Ankara, Turkey,  
02 October 2020

**IV. Comparison of Technology Citizens and Technology Immigrants' Information Security Awareness**

Görkan EVRE Ö., CİYLAN B.

Int. Conf. Advanced. Mater. Sci.& Eng. HiTech.and Device Appl.Oct. 02-04 2020,Ankara, Turkey, Ankara, Turkey,  
02 October 2020

- V. **Engel Olarak Belirlenen Araziler Olduğunda İnsansız Hava Araçlarının Karınca Kolonisi Algoritması İle Optimal Rotanın Bulunması**  
AGHAZADE S., CİYLAN B.  
Azerbaycan ve Türkiye Üniversiteleri: Eğitim, Teknoloji, I. Beynelminel Konferansı, Baku, Azerbaycan, 18 - 19 November 2019
- VI. **Büyük Veri Analitiği Kullanan Bir SIEM Yazılımı Geliştirilmesi**  
Çayır B., CİYLAN B.  
12. Uluslararası Bilgi Güvenliği ve Kriptoloji Konferansı, Ankara, Turkey, 16 - 17 October 2019, pp.43-48
- VII. **Windows Sistemlerinde Post Exploitation İşlemleri İçin Bir Araç Geliştirilmesi**  
Kızılcınar S., CİYLAN B.  
12. Uluslararası Bilgi Güvenliği ve Kriptoloji Konferansı, Ankara, Turkey, 16 - 17 October 2019, pp.94-99
- VIII. **A Traffic Systematic Proposal for Manned and Unmanned Aerial Vehicles Encounter**  
İpteç M., CİYLAN B., Şıvgın A. E.  
4th International Conference on Engineering and Natural Sciences, Kiev, Ukraine, 2 - 06 May 2018
- IX. **Cyber Security in Industrial Control Systems: Analysis of DoS Attacks against PLCs and the Insider Effect**  
Yılmaz E. N., CİYLAN B., Gonen S., Sindiren E., Karacayılmaz G.  
6th International Istanbul Smart Grids and Cities Congress and Fair (ICSG), İstanbul, Turkey, 25 - 26 April 2018, pp.81-85
- X. **Siber Güvenlik Ve Yapay Sinir Ağları Yaklaşımıyla Bir Değerlendirme**  
Boyacı M., BENZER R., CİYLAN B.  
3rd International Management Information Systems Conference, İzmir, Turkey, 6 - 08 November 2016
- XI. **Akıllı Televizyonlar Üzerine Güvenlik İncelemesi**  
Ulu A., CİYLAN B.  
6th International Conference on Information Security and Cryptology, Ankara, Turkey, 25 - 26 October 2016
- XII. **Estimating Victim Type in Credit Card Fraud with the Approach of Artificial Neural Networks**  
ORAKÇI M., CİYLAN B.  
Global Conference on Applied Computing in Science and Engineering, 15 July 2016
- XIII. **Exploration of Secret Relations in Homicide Cases**  
ORAKÇI M., CİYLAN B.  
International Conference on Research in Education & Science, 15 May 2016
- XIV. **Prediction of Unknown Elements in Rape Cases Machine Learning Approach in Crime Analysis**  
ORAKÇI M., CİYLAN B.  
International Conference on Research in Education & Science., 10 - 12 May 2016
- XV. **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
- XVI. **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 2016
- XVII. **Termoelektrik modüller için mikrodenetleyici kontrollü test sistemi**  
CİYLAN B., SAVAŞ Y., AHISKA R.  
III. Uluslararası İleri Teknolojiler Sempozyumu, 5 - 06 May 2003

## Activities in Scientific Journals

JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, Committee Member, 2017 - 2023

## **Metrics**

Publication: 40

Citation (WoS): 81

Citation (Scopus): 114

H-Index (WoS): 6

H-Index (Scopus): 7

## **Non Academic Experience**

MİLLİ EĞİTİM BAKANLIĞI