

## Asst. Prof. VEDAT MARTTİN

### Personal Information

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### International Researcher IDs

ScholarID: -LdVUWcAAAAJ

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Publons / Web Of Science ResearcherID: GRR-7523-2022

ScopusID: 57205571347

Yoksis Researcher ID: 125744

### Education Information

Doctorate, Sakarya University, Institute Of Science, Bilgisayar Ve Bilişim Mühendisliği (Dr) (Bilecik Şeyh Edebali Üniv. Ortak), Turkey 2015 - 2021

Postgraduate, Bilecik Seyh Edebali University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (YI) (Tezli), Turkey 2009 - 2014

Undergraduate, Sakarya University, Faculty Of Technical Education, Department Of Electronics And Computer Education, Turkey 2004 - 2007

Undergraduate, Anadolu University, İktisat Fakültesi, Siyaset Bilimi Ve Kamu Yönetimi Bölümü, Turkey 2003 - 2007

Undergraduate, Kocaeli University, Teknik Eğitim Fakültesi, Elektronik Ve Bilgisayar Eğitimi Bölümü, Turkey 2001 - 2004

### Dissertations

Doctorate, Afet sonrası haberleşme için mobil ağlarda iş çıkarım tabanlı cihazdan cihaza yeni bir keşif algoritması, Sakarya University, Fen Bilimleri Enstitüsü, Bilgisayar Ve Bilişim Mühendisliği (Dr) (Bilecik Şeyh Edebali Üniv. Ortak), 2021

Postgraduate, Saldırı tespit sistemlerinde yapay sinir ağlarının kullanımı ve başarımlarının incelenmesi, Bilecik Seyh Edebali University, FEN BİLİMLERİ ENSTİTÜSÜ, Bilgisayar Mühendisliği (YI) (Tezli), 2014

### Research Areas

Communication Networks, Wireless Communication, Information Security and Reliability, Computer Networks, Artificial Intelligence, Computer Learning and Pattern Recognition, Neural Networks, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Bilecik Seyh Edebali University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2023 - Continues

Assistant Professor, Bilecik Seyh Edebali University, Pazaryeri Meslek Yüksekokulu, Bilgisayar Teknolojileri, 2021 - 2023

Lecturer, Bilecik Seyh Edebali University, Rektörlük, -, 2010 - 2021

## Academic and Administrative Experience

Assistant Director of Vocational School, Bilecik Seyh Edebali University, 2021 - 2023

Bilecik Seyh Edebali University, 2021 - 2021

Information Security Management Systems Manager Representative, Bilecik Seyh Edebali University, Rektörlük, Department of Information Technology, 2018 - 2021

Cyber Incident Response Team , Bilecik Seyh Edebali University, Rektörlük, Department of Information Technology, 2018 - 2021

Network and System Specialist, Bilecik Seyh Edebali University, Rektörlük, Department of Information Technology, 2010 - 2021

## Courses

COMPUTER APPLICATIONS IN THE ENERGY SECTOR, Postgraduate, 2022 - 2023

COMPUTER ENGINEERING DESIGN STUDY II, Undergraduate, 2022 - 2023, 2021 - 2022

AREA OF EXPERTISE, Postgraduate, 2023 - 2024, 2022 - 2023

THESIS, Postgraduate, 2023 - 2024, 2022 - 2023

MOBILE AND WIRELESS NETWORKS, Postgraduate, 2022 - 2023, 2021 - 2022

CORPORATE INFORMATION SECURITY, Postgraduate, 2023 - 2024, 2022 - 2023

WIRELESS NETWORK TECHNOLOGIES, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

PROFESSIONAL ENGLISH I, Undergraduate, 2023 - 2024

PROBABILITY AND STATISTICS, Undergraduate, 2023 - 2024

MICROPROCESSOR APPLICATIONS, Undergraduate, 2022 - 2023

WIRELESS COMMUNICATION, Doctorate, 2023 - 2024

NUMERICAL ANALYSIS, Undergraduate, 2022 - 2023

COMPUTER ENGINEERING DESIGN STUDY I, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

WIRELESS SENSOR NETWORKS, Doctorate, 2022 - 2023

INFORMATION SECURITY MANAGEMENT SYSTEM STANDARDS, Associate Degree, 2022 - 2023

MEASUREMENT AND HARDWARE LABORATORY, Undergraduate, 2022 - 2023

KABLOSUZ AĞ SİSTEMLERİ , Associate Degree, 2022 - 2023

MİKROİŞLEMCİ UYGULAMALARI, Undergraduate, 2021 - 2022

BİLGİSAYAR MÜHENDİSLİĞİ TASARIM ÇALIŞMASI I, Undergraduate, 2021 - 2022

YAPAY ZEKA, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

BİLGİSAYAR MÜHENDİSLİĞİ TASARIM ÇALIŞMASI II, Undergraduate, 2021 - 2022

TEMEL BİLGİ TEKNOLOJİSİ KULLANIMI, Undergraduate, 2021 - 2022

İŞLETİM SİSTEMLERİ, Associate Degree, 2021 - 2022, 2014 - 2015, 2010 - 2011

BİLGİSAYAR AĞLARI VE GÜVENLİĞİ, Undergraduate, 2020 - 2021

MÜHENDİSLİKTE PROGRAMLAMA, Undergraduate, 2020 - 2021

TEMEL BİLGİSAYAR BİLİMLERİ VE PROGRAMLAMA DİLLERİ, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

PROJE YÖNETİMİ, Undergraduate, 2020 - 2021, 2019 - 2020

AĞ TEKNOLOJİLERİ, Associate Degree, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

PROGRAMLAMA, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

TEMEL BİLGİ TEKNOLOJİSİ KULLANIMI, Associate Degree, 2020 - 2021

VERİ TABANI VE YÖNETİM SİSTEMLERİ, Associate Degree, 2018 - 2019

BİLGİSAYAR AĞ SİSTEMLERİ, Associate Degree, 2017 - 2018, 2016 - 2017, 2013 - 2014, 2012 - 2013

TEMEL BİLGİ TEKNOLOJİLERİ KULLANIMI, Associate Degree, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2013 - 2014

MİKROBİLGİSAYARLAR VE ASSEMBLER, Associate Degree, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010

Veritabanı Yönetim Sistemleri, Undergraduate, 2016 - 2017

Veritabanı Yönetim Sistemleri-1, Associate Degree, 2016 - 2017  
TEMEL BİLGİ TEKNOLOJİLERİ KULLANIMI-2, Associate Degree, 2016 - 2017  
KABLOSUZ AĞ SİSTEMLERİ, Associate Degree, 2015 - 2016  
TEMEL BİLGİ TEKNOLOJİLERİ KULLANIMI, Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013  
TEMEL BİLGİSAYAR BİLİMLERİ, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011  
BİLGİSAYAR DONANIMI, Associate Degree, 2013 - 2014, 2011 - 2012  
TEMEL ELEKTRONİK, Associate Degree, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011  
TEMEL BİLGİ TEKNOLOJİLERİ KULLANIMI-2, Undergraduate, 2012 - 2013  
GÜÇ ELEKTRONİĞİ, Associate Degree, 2009 - 2010  
C PROGRAMLAMA DİLİ-2, Associate Degree, 2009 - 2010

## Advising Theses

MARTTİN V., Elektrik Tüketim Verilerine Yapay Zeka Modellerinin Uygulanması, Postgraduate, A.CİHAN(Student), 2023  
MARTTİN V., Nesne Tanıma Algoritması Kullanılarak Bitki Hasar Tespiti: Beyaz Lahana Örneği, Postgraduate, S.SÖKMEN(Student), 2023

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

- I. **Device-to-Device (D2D) Discovery Simulator for 3GPP and Public Safety Network (PSN)**  
MARTTİN V., YÜZGEÇ U., Bayılmış C., KÜÇÜK K.  
Wireless Personal Communications, vol.135, no.3, pp.1799-1824, 2024 (SCI-Expanded)
- II. **Treatment of textile dye via economic fungi/MCM-41 bio-based adsorbent: Application of neural network approach**  
Şimşek V., Yarbay R. Z., Marttin V., Gül Ü. D.  
Journal of Cleaner Production, vol.421, 2023 (SCI-Expanded)
- III. **A Novel Approach to D2D Discovery in PSN for Post-Disaster: Throughput Based Discovery Algorithm (TDA)**  
MARTTİN V., YÜZGEÇ U., Bayılmış C., KÜÇÜK K.  
Wireless Personal Communications, vol.119, no.4, pp.3339-3363, 2021 (SCI-Expanded)

## Articles Published in Other Journals

- I. **An Analysis for Car Fuel Estimation with Regression Methods**  
TAŞKIN E., MARTTİN V.  
Journal of Artificial Intelligence and Data Science (JAIDA), vol.3, no.2, pp.107-115, 2023 (Peer-Reviewed Journal)
- II. **Internet of Thing (IoT) Based Mobile Plant Irrigation Application**  
SÖKMEN S., MARTTİN V.  
All Sciences Proceedings (International Journal of Advanced Natural Sciences and Engineering Researches-IJANSER), no.10, pp.163-170, 2023 (Peer-Reviewed Journal)
- III. **Yapay Sinir Ağları Kullanarak Bilgisayar Ağlarında Saldırı Tespit Sistemi ve Başarımlarının İncelenmesi**  
MARTTİN V., İMAL N.  
Gaziosmanpaşa Bilimsel Araştırma Dergisi, no.11, pp.21-39, 2015 (Peer-Reviewed Journal)
- IV. **ISO 27001 2005 Bilgi Güvenliği Yönetimi Standardı ve Türkiye deki Bazı Kamu Kuruluşu Uygulamaları Üzerine Bir İnceleme**  
MARTTİN V., PEHLİVAN İ.  
Mühendislik Bilimleri ve Tasarım Dergisi, vol.1, no.1, pp.49-56, 2010 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Internet of Things (IoT) and Smart Applications**  
ALAWAD A., MARTTİN V.  
in: PIONEER AND INNOVATIVE STUDIES IN COMPUTER SCIENCES AND ENGINEERING , ALAYBEYOĞLU AYŞEGÜL, Editor, All Sciences Academy, pp.126-141, 2024
- II. **Network Security and Applications within the scope of Information Security Management**  
ŞEKER H., MARTTİN V.  
in: Advances in Computer Engineering, ENER RÜŞEN SELMİN, Editor, Platanus Publishing, Ankara, pp.135-159, 2024
- III. **Social Engineering Attacks**  
BABAL M. B., MARTTİN V.  
in: PIONEER AND INNOVATIVE STUDIES IN COMPUTER SCIENCES AND ENGINEERING, ALAYBEYOĞLU AYŞEGÜL, Editor, All Sciences Academy, pp.81-92, 2024
- IV. **Advancements in Deep Learning for Electrical Consumption Forecasting: A Review of 2019-2023 Studies for LSTM**  
CİHAN A., MARTTİN V.  
in: ACADEMIC RESEARCH AND REVIEWS IN ENGINEERING SCIENCES, Prof.Birol KILIÇ Ph.D, Editor, Platanus Publishing, Ankara, pp.273-290, 2023
- V. **A Study on Security Problem in Wireless Sensor Networks and Internet Of Things**  
ALTAŞ U., MARTTİN V.  
in: ACADEMIC RESEARCH AND REVIEWS IN ENGINEERING SCIENCES, Prof.Birol KILIÇ Ph.D, Editor, Platanus Publishing, Ankara, pp.255-272, 2023
- VI. **Afet Yönetimi Ve Kullanılan Güncel Teknolojiler**  
MARTTİN V.  
in: KÜRESELLEŞEN DÜNYADA MÜHENDİSLİK VE MİMARLIK, CENGİZ M. Sait, ÖZKAYA Umut, Editor, Duvar Yayınları, İzmir, pp.141-154, 2023

## Refereed Congress / Symposium Publications in Proceedings

- I. **The Role and Future of the Internet of Things (IoT)**  
ALAWAD A., MARTTİN V.  
4 th International Conference on Frontiers in Academic Research, Konya, Turkey, 13 December 2024, pp.283
- II. **Web-Based English Teaching Application**  
ALAHMAD A., MARTTİN V.  
3rd International Conference on Recent Academic Studies, Konya, Turkey, 03 December 2024, pp.1337-1345
- III. **A Summary on Security Problems for Internet of Things (IoT)**  
MARTTİN V.  
Karaelmas International Science and Engineering Symposium (KISES 2024), Zonguldak, Turkey, 10 - 11 May 2024, pp.69-70
- IV. **A Study on Public Safety Networks and 5G**  
MARTTİN V.  
Karaelmas International Science and Engineering Symposium (KISES 2024), Zonguldak, Turkey, 10 - 11 May 2024, pp.80-81
- V. **5G Teknolojisi ile İletişim: Bölgesel Deprem Haberleşme Simülasyonu**  
AKPINAR E. H., MARTTİN V.  
3rd International Conference on Scientific and Academic Research (ICSAR 2023), Konya, Turkey, 25 - 26 December 2023, vol.1, pp.1080-1083
- VI. **IoT-Based Plant Irrigation Application with Mobile Control**  
SÖKMEN S., MARTTİN V.

2nd International Conference on Contemporary Academic Research (ICCAR 2023), Konya, Turkey, 04 November 2023, pp.75

**VII. Fuel Estimation Study with Regression Algorithms**

TAŞKIN E., MARTTİN V.

III. INTERNATIONAL ARTIFICIAL INTELLIGENCE AND DATA SCIENCE CONGRESS(ICADA2023), İzmir, Turkey, 28 July 2023, pp.16

**VIII. Modeling of Remazol Red 120 Dye Removal Performance Using Artificial Neural Networks**

MARTTİN V., YARBAY R. Z.

III. INTERNATIONAL ARTIFICIAL INTELLIGENCE AND DATA SCIENCE CONGRESS(ICADA2023), İzmir, Turkey, 28 July 2023, pp.15

**IX. Artificial Intelligence Forecasting Application on Financial Data**

SEÇKİN A. S., MARTTİN V.

1st International Conference on Scientific and Academic Research (ICSAR2022), Konya, Turkey, 10 - 13 December 2022, pp.360

**X. Nesnelerin İnterneti (IoT) Tabanlı Yüz Tanıma Uygulaması**

UYGUR F. E., MARTTİN V.

4th International Conference on Applied Engineering and Natural Sciences (ICAENS2022), Konya, Turkey, 10 - 13 November 2022, pp.1338-1345

**XI. Deep Learning based Mask Detector for Coronavirus**

YILMAZ B., MARTTİN V., YÜZGEÇ U.

Global Conference On Engineering Research (GLOBECER'21), Balıkesir, Turkey, 2 - 05 June 2021, pp.212-221

**XII. Raspberry Pi based Object Detection and Drawing**

BAYRAK T., MARTTİN V., YÜZGEÇ U.

Global Conference On Engineering Research (GLOBECER'21), Balıkesir, Turkey, 2 - 05 June 2021, pp.194-201

**XIII. D2D Communication and Energy Efficiency on LTE for Public Safety Networks**

Marttin V., YÜZGEÇ U., Bayilmis C., KÜÇÜK K.

3rd International Conference on Computer Science and Engineering, UBMK 2018, Sarajevo, Bosnia And Herzegovina, 20 - 23 September 2018, pp.547-551

**XIV. Afet Sonrası İletişim İçin Cihazdan Cihaza Haberleşme Teknolojisi(Device to Device (D2D) Communication Technologies for Post-DisasterCommunication)**

MARTTİN V., YÜZGEÇ U., BAYILMIŞ C.

2ND International Symposium on Natural Hazards and Disaster Management 04-06 MAY 2018 (ISHAD2018), Sakarya, Turkey, 4 - 06 May 2018, pp.687-696

**XV. Yeni Nesil Mobil Kablosuz Ağlar:4.5G Üzerine Bir Araştırma (New Generation Mobile Wireless Networks Asurvey on 4.5G)**

MARTTİN V., BAYILMIŞ C., YÜZGEÇ U.

UBMK2016, International Conference on Computer Science and Engineering, Tekirdağ, Turkey, 20 - 23 October 2016, pp.666-670

**XVI. BİLGİSAYAR MÜHENDİSLİĞİ BÖLÜMÜ ÖĞRENCİ PROFİLLERİ**

İMAL N., ÖZALP M., MARTTİN V.

"GELECEK İÇİN EĞİTİM"-ELEKTRİK ELEKTRONİK BİLGİSAYAR BİYOMEDİKAL MÜHENDİSLİĞİ EĞİTİMİ 4.ULUSAL SEMPOZYUMU, Eskişehir, Turkey, 22 - 24 October 2009

## Supported Projects

Gül Ü. D., Alanyaloğlu M., Ertit Taştan B., Marttin V., Kapsuz Ö., Project Supported by Higher Education Institutions, Endüstriyel atıksuların adsorpsiyon prosesi ile arıtımında fungus/grafen oksit temelli biyokompozitin kullanım potansiyelinin belirlenmesi, 2023 - 2024

Marttin V., Yarbay R. Z., Project Supported by Higher Education Institutions, Modeling Dye Removal Performance Using Artificial Neural Networks, 2022 - 2023