



Asst. Prof. UĞUR CORUH

Email: ugur.coruh@erdogan.edu.tr

Web: <https://avesis.erdogan.edu.tr/ugur.coruh>

Address: Fener Mah. Zihni Derin Yerleşkesi, 53100 Rize, Turkey



Education Information

- I. Doctorate, Altınbaş University, Graduate School Of Natural And Applied Sciences, Electrical and Computer Engineering, Turkey 2014 - 2019
- II. Postgraduate, Altınbaş University, Graduate School Of Natural And Applied Sciences, Electrical and Computer Engineering, Turkey 2011 - 2014
- III. Undergraduate, Selçuk University, Faculty Of Engineering, Department Of Computer Engineering, Turkey 2005 - 2009

Foreign Languages

- I. English, C1 Advanced

Dissertations

- I. Doctorate, Enhanced Secure Communication Schemes for Machine-to-Machine and Vehicular Ad Hoc Networks, Altınbaş University, Graduate School Of Natural And Applied Sciences, Electrical and Computer Engineering, 2019
- II. Postgraduate, SRAM tabanlı FPGA devrelerinde LUT seviyesinde fonksiyonlar arasındaki NPN ilişkilerin maksimize edilmesi, Altınbaş University, Graduate School Of Natural And Applied Sciences, Electrical and Computer Engineering, 2014

Research Areas

Communication Networks, Telecommunication Applications, Information Security and Reliability, Hiding Information, Information System Reliability, Hardware Security, Cryptography, Quantum Cryptography, Software Security, Computer Networks, Communications and Network Protocols, Data Routing, Database and Data Structures, Software, Operating Systems, Automatic Programming, Programming Languages, Software Engineering, Soft Computing, Bioengineering and MEMS, Bioinstrumentation and Microelectromechanical Systems (MEMS), Biosignal Processing, Biosignal Processing

Academic Titles / Tasks

- I. Assistant Professor, Recep Tayyip Erdogan University, Mühendislik Ve Mimarlık Fakültesi, Bilgisayar Mühendisliği, 2019 - Continues

Courses

- I. Algorithms and Programming I, Undergraduate, 2021 - 2022
- II. Algorithms and Programming II, Undergraduate, 2020 - 2021
- III. Data Structures, Undergraduate, 2021 - 2022
- IV. Temel Bilgi Teknolojileri, Undergraduate, 2021 - 2022
- V. Algorithms and Programming I, Undergraduate, 2020 - 2021
- VI. Basic Information Technologies, Undergraduate, 2020 - 2021

Designed Lessons

- I. Coruh U., Data Structures, Undergraduate, 2021 - 2022
- II. Coruh U., Algorithms and Programming II, Undergraduate, 2020 - 2021
- III. Coruh U., Algorithms and Programming I, Undergraduate, 2020 - 2021

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **ESAR: Enhanced Secure Authentication and Revocation Scheme for Vehicular Ad Hoc Networks**
Coruh U., Bayat O.
JOURNAL OF INFORMATION SECURITY AND APPLICATIONS, vol.64, pp.103081, 2022 (Journal Indexed in SCI Expanded)
- II. **Hybrid Secure Authentication and Key Exchange Scheme for M2M Home Networks**
Coruh U., Bayat O.
SECURITY AND COMMUNICATION NETWORKS, vol.2018, 2018 (Journal Indexed in SCI)

Books & Book Chapters

- I. **Security Risks of IoT Technologies in Healthcare Services and Measures That Can Be Taken**
Coruh U.
in: Artificial Intelligence and Applications in Healthcare, Can Özlü, Mehmet Ali Gedik, Nilüfer Köylüoğlu, Hilmi Sefa Yangal, Aysun Özlü, Editor, Akademisyen Kitabevi, Ankara, pp.41-52, 2021
- II. **5G Era in Healthcare**
Coruh U.
in: Artificial Intelligence and Applications in Healthcare, Can Özlü, Mehmet Ali Gedik, Nilüfer Köylüoğlu, Hilmi Sefa Yangal, Aysun Özlü, Editor, Akademisyen Kitabevi, Ankara, pp.389-396, 2021

Refereed Congress / Symposium Publications in Proceedings

- I. **Lightweight Offline Authentication Scheme for Secure Remote Working Environment**
Coruh U., Khan M., Bayat O.
2021 International Conference on Electrical, Computer and Energy Technologies (ICECET), Cape-Town, South

Africa, 9 - 10 December 2021, pp.1-9

II. Performance Analysis of Blockchain-Based Systems for Industry Applications

Khan M., Bayat O., Coruh U.

The International Conference on Engineering & MIS 2020 (ICEMIS20), Almati, Kazakhstan, 14 - 16 September 2020, vol.1, no.100, pp.1-21

Patent

- I. Coruh U., Koçan H., Ohm kanunu ile elektriksel üroflowmetri ölçümü yapan akıllı sistem/ ürosistografi, Patent, CHAPTER H Electricity, The Invention Recourse Number: 2021/012435 , Initial Registration, 2021
- II. Coruh U., Koçan H., Elektroüroflowmetri: Elektriksel akıllı üroflowmetri cihazı ve ölçümleme yöntemi, Patent, CHAPTER H Electricity, The Invention Recourse Number: 2021/008173 , Initial Registration, 2021
- III. Coruh U., Koçan H., Elektriksel gerilim, direnç, kapasite ve akım ölçümleri ile geçtiği bölgedeki hücre doku özelliklerini ve türünü oluşturulan model ile tespit eden perkütan/biyopsi iğnesi ve yönlendirme analiz sistemi, Patent, CHAPTER H Electricity, The Invention Recourse Number: 2020/19898 , Initial Registration, 2020

Citations

- I. Total Citations (WOS): 1
- II. h-index (WOS): 1

Coaching Duties

Refereeing Duties

Non Academic Experience

- I. Company, TÜRKİYE VAKIFLAR BANKASI T.A.O., R&D AND INNOVATION DIRECTORATE
- II. Company, PAYCORE (KARTEK KART VE BİLİŞİM TEKNOLOJİLERİ TİC. A.Ş.), R&D
- III. Company, PAYCORE (KARTEK KART VE BİLİŞİM TEKNOLOJİLERİ TİC. A.Ş.), R&D
- IV. Company, PAYCORE (KARTEK KART VE BİLİŞİM TEKNOLOJİLERİ TİC. A.Ş.), R&D
- V. Company, BİLTEKNO INFORMATION TECHNOLOGIES, R&D