

Lect. PhD MUHAMMET ÜNAL

Personal Information

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International Researcher IDs

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ORCID: 0000-0002-2652-3278

Publons / Web Of Science ResearcherID: ABH-4300-2020

ScopusID: 36783603500

Yoksis Researcher ID: 51702

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Kablosuz genişbant mobil ağlarda güvenlik bilinçli zeki yönlendirme protokolü, Gazi University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (Dr), 2010

Postgraduate, İşlem süreçlerinin paralel bilgisayar sistemleri ile hızlandırılması, Gazi University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (YI) (Tezli), 2003

Research Areas

Performance Modelling and Evaluation, Simulation and Modelling, Parallel Algorithms, Computer Networks, Fuzzy Sets and Systems, Natural Language Processing, Evolutionary Computing, Operating Systems

Academic Titles / Tasks

Lecturer PhD, Gazi University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2010 - Continues

Lecturer, Gazi University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2005 - 2010

Research Assistant, Gazi University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, 2001 - 2005

Academic and Administrative Experience

Gazi University, Rektörlük, 2016 - 2019

Courses

Microprocessors, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

Operating Systems, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008

Parallel Computer Architectures and Programming, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019

Parallel Computer Architectures and Programming, Undergraduate, 2020 - 2021, 2018 - 2019, 2017 - 2018, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2010 - 2011, 2009 - 2010, 2007 - 2008

Introduction to Cryptography, Undergraduate, 2019 - 2020

Data Structures, Undergraduate, 2019 - 2020

Microprocessors, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007

Kriptografiye Giriş, Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

Parallel and Multicore Programming, Postgraduate, 2016 - 2017, 2014 - 2015, 2013 - 2014, 2012 - 2013

Wireless Network Security, Postgraduate, 2016 - 2017, 2014 - 2015, 2013 - 2014, 2012 - 2013

Basic computer Programming, Undergraduate, 2013 - 2014, 2012 - 2013

Parallel and Multicore Programming, Postgraduate, 2012 - 2013

Introduction to Cryptography, Undergraduate, 2010 - 2011, 2009 - 2010

Numerical Analysis, Undergraduate, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006

Design with XML, Associate Degree, 2009 - 2010

C# Programming-1, Associate Degree, 2008 - 2009

Computer Programming 2, Undergraduate, 2008 - 2009

Information Technologies, Undergraduate, 2008 - 2009, 2007 - 2008, 2006 - 2007

Data Structures, Undergraduate, 2008 - 2009, 2007 - 2008, 2006 - 2007

Operating Systems, Associate Degree, 2008 - 2009

C# Programming Language, Undergraduate, 2007 - 2008

Computer Programming1, Undergraduate, 2008 - 2009

Basic Computer Science and C/C++, Undergraduate, 2007 - 2008, 2005 - 2006

Operating Systems, Undergraduate, 2006 - 2007

Visual Programming-I, Associate Degree, 2007 - 2008

Advising Theses

ÜNAL M., Very High Resolution Camera Hardware And Parallel Visual Database, Postgraduate, M.GÜZEL(Student), 2016

ÜNAL M., Linguistic summarization with genetic algorithm, Postgraduate, T.ALTINTOP(Student), 2015

Advising Graduates (Non-Thesis)

Ünal M., Mobil İşletim Sistemleri İçin Kullanıcı Tabanlı Güvenlik Çatısı, Masters (Non-Thesis), S.SALTIOKOĞLU(Student), 2014

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Performance-Aware Big Data Management for Remote Sensing Systems**
Pekturk M. K., Ünal M., Gökçen H.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.49, no.3, pp.3845-3865, 2024 (SCI-Expanded)
- II. **Water droplet behavior in between hydrophilic and hydrophobic surfaces and dust mitigation**
Yilbas B. S., Abubakar A. A., Adukwu J. E., Hassan G., Al-Qahtani H., Al-Sharafi A., ÜNAL M., Alzaydi A.
RSC ADVANCES, vol.12, no.44, pp.28788-28799, 2022 (SCI-Expanded)
- III. **Fuzzy Linguistic Summarization with Genetic Algorithm: An Application with Operational and Financial Healthcare Data**

Altıntop T., Yager R. R., AKAY D., BORAN F. E., ÜNAL M.
INTERNATIONAL JOURNAL OF UNCERTAINTY FUZZINESS AND KNOWLEDGE-BASED SYSTEMS, vol.25, no.4,
pp.599-620, 2017 (SCI-Expanded)

Articles Published in Other Journals

I. Secure routing protocols in wireless networks

ÜNAL M., AKCAYOL M. A.

Journal of Informatics Technologies, vol.1, no.3, pp.7-13, 2008 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. Modelling Of Big Data Deployment in Remote Sensing Applications Using Multi-Constrained Assignment Problem

Pektürk M. K., Ünal M., Gökçen H.

International Symposium On Current Developments In Science, Technology And Social Sciences, Ankara, Turkey, 26 - 27 May 2023, pp.373-384

II. A Review on Real-time Big Data Analysis in Remote Sensing Applications

Pektürk M. K., ÜNAL M.

25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017

III. OPERASYONEL VE FİNANSAL SAĞLIK VERİSİ İÇİN BULANIK DİLSEL ÖZETLERİN GENETİK ALGORİTMA İLE ÇIKARIMI

ALTINTOP T., AYDOĞAN S., AKAY D., BORAN F. E., ÜNAL M.

Yöneylem Araştırması ve Endüstri Mühendisliği 36. Ulusal Kongresi, Turkey, 13 - 15 July 2016

IV. A Survey of Insect Eye Inspired Visual Sensors

GÜZEL M., ÜNAL M.

9th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 26 - 28 November 2015, pp.139-142

Metrics

Publication: 8

Citation (WoS): 11

Citation (Scopus): 18

H-Index (WoS): 2

H-Index (Scopus): 2

Invited Talks

AI Driven Aviation, Conference, 2nd International Conference of Advanced Transportation, Engineering, and Applied Social Science (ICATEAS), Indonesia, October 2023

Artificial Intelligence, Seminar, El Quds University, Palestine, March 2023