

KEREM KÜÇÜK

PROF.

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International Researcher IDs

ScholarID: Yy6qFWcAAAAJ

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Publons / Web Of Science ResearcherID: V-6486-2017

ScopusID: 15126996200

Yoksis Researcher ID: 1901

Biography

Kerem Küçük received the B.S., M.S., and Ph.D. degrees from the Electronics and Computer Education Department, Kocaeli University, Kocaeli, Turkey. He is head of Software Engineering Department where he is currently a Professor. He was a Guest Researcher and a Visiting Scholar with the Pervasive Systems Group, Twente University, Twente, Netherlands, and the Wireless Information Systems Laboratory, the University of Texas at Dallas, TX, respectively. His research interests include the Internet of Things, vehicular networks, computer and wireless networks, ultrawideband systems, embedded systems, real-time signal processing, and LTE-A systems.

Learning Knowledge

Doctorate 2005 - 2010	Kocaeli University, Fen Bilimleri Enstitüsü, Elektronik Ve Bilgisayar Eğitimi Anabilim Dalı, Turkey
Postgraduate 2002 - 2005	Kocaeli University, Fen Bilimleri Enstitüsü, Elektronik Ve Bilgisayar Eğitimi Anabilim Dalı, Turkey
Undergraduate 1997 - 2002	Kocaeli University, Teknik Eğitim Fakültesi, Elektronik Ve Bilgisayar Eğitimi Bölümü, Turkey

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Akıllı anten sistemi kullanan kablosuz algılayıcı ağlarda bağlantı analizi ve konum belirleme algoritması, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Elektronik Ve Bilgisayar Eğitimi Anabilim Dalı, 2010

Postgraduate, CDMA2000 yukarı bağlantı kanalı için akıllı anten algoritmalarının dijital sinyal işlemciler üzerinde yazılım radyo ile gerçekleştirilmesi, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Elektronik Ve Bilgisayar Eğitimi Anabilim Dalı, 2005

Academic Titles / Tasks

Professor 2021 - Continues	Kocaeli University, Mühendislik Fakültesi, Yazılım Mühendisliği
Associate Professor 2015 - 2021	Kocaeli University, Mühendislik Fakültesi, Bilgisayar Mühendisliği
Associate Professor 2014 - 2015	Kocaeli University, Gazanfer Bilge Meslek Yüksekokulu, Büro Hizmetleri ve Sekreterlik
Assistant Professor 2010 - 2014	Kocaeli University, Gazanfer Bilge Meslek Yüksekokulu, Büro Hizmetleri ve Sekreterlik
Research Assistant 2002 - 2010	Kocaeli University, Teknik Eğitim Fakültesi, Elektronik ve Bilgisayar Eğitimi

Supported Projects

- KÜÇÜK K., Eren K. K., Project Supported by Higher Education Institutions, Nesnelerin İnterneti Güvenliği İçin Makine Öğrenimi Destekli Anomali Tespitinde Dengesiz Veri Dağılımının İncelenmesi, 2024 - Continues
- Küçük K., TÜBİTAK Project, Nesnelerin İnterneti İçin Makine Öğrenmesi İle Etkin Bir Saldırı Tespit Sistemi Geliştirilmesi, 2024 - 2025
- Küçük K., Mutlu A., TÜBİTAK Project, Hiyerarşik Dokümanlarda Belge Parmak İzleri Temelli İlişkili Metin Arama Motoru, 2020 - 2021
- İNNER A. B., ŞAHİN S., KÜÇÜK K., PIMAR Z., Project Supported by Higher Education Institutions, GÜNEŞ PANELLERİ İÇİN KABLOSUZ HABERLEŞME İLE VERİ İZLEME SİSTEMİ, 2017 - 2019
- Küçük K., Project Supported by Higher Education Institutions, LTE-A FEMTOCELL AĞLARDA YENİ BİR PARAZİT YÖNETİM ŞEMASI TASARIMI, 2017 - 2018
- Küçük K., Project Supported by Higher Education Institutions, Sectoral Sweeper Based Location Estimation Using Smart Antennas in Wireless Sensor Networks: Simulation Study with OPNET , 2015 - 2016
- Küçük K., Project Supported by Higher Education Institutions, KOCAELİ ÜNİVERSİTESİ E-POSTA TEKNOLOJİK ALTYAPISININ GELİŞTİRİLMESİ, 2013 - 2014
- Küçük K., Yiğit H., Project Supported by Higher Education Institutions, DÜŞÜK MALİYETLİ GERÇEK ZAMANLI KABLOSUZ YEREL ALAN AĞI PROTOTİPİ TASARIMI, 2013 - 2013
- Küçük K., Kavak A., TÜBİTAK Project, Kablosuz Algılayıcı Ağlarda Akıllı Anten Kullanan Sektörel Tarama Tabanlı Konum Tahmini OPNET ile Simülasyon Çalışması, 2009 - 2010
- Küçük K., Kavak A., YİĞİT H., TÜBİTAK Project, Üçüncü Nesil 3G Gezgin Haberleşme Sistemleri İçin Smart Anten Sistemi Algoritması Geliştirilmesi Ve Prototip Üzerinde Uygulanması, 2002 - 2004

Awards

- Küçük K., Tübitak Yayın Teşvik Ödülü (UBYT 2), Tübitak, September 2019
- Küçük K., Tübitak Yayın Teşvik Ödülü (UBYT), Tübitak, July 2019
- Küçük K., Tübitak Yayın Teşvik Ödülü (UBYT 2), Tübitak, July 2018
- Küçük K., Tübitak Yayın Teşvik Ödülü (UBYT), Tübitak, July 2018
- Nilgün Eroğlu K., Küçük K., Best Paper Award, International Conference On Engineering Technologies, December 2017
- Nilgün Eroğlu K., Küçük K., Research Award, International Conference On Multidisciplinary Sciences (Icomus),

October 2017

7. Küçük K., Tübitak Yayın Teşvik Ödülü (UBYT), Tübitak, November 2014
8. Küçük K., Tübitak Yayın Teşvik Ödülü (UBYT 2), Tübitak, September 2013
9. Küçük K., Tübitak Yayın Teşvik Ödülü (UBYT), Tübitak, August 2013
10. Küçük K., Tübitak Yayın Teşvik Ödülü (UBYT), Tübitak, November 2011
11. Küçük K., The Excellence in Signal Processing Award (ESPA), Texas Instruments, July 2006

Scholarships

2219, TUBITAK, 2011 - 2012

Erasmus Student Placement, Other Government Agencies, 2008 - 2008

Jury Memberships

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Yalova Üniversitesi, February, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Kocaeli Üniversitesi, February, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Yalova Üniversitesi, February, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Kocaeli Üniversitesi, February, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Kocaeli Üniversitesi, February, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Kocaeli Üniversitesi, February, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Kocaeli Üniversitesi, February, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Kocaeli Üniversitesi, January, 2021

Doctoral Examination, Doctoral Examination, Kocaeli Üniversitesi, September, 2020

Doctorate, Doctorate, Kocaeli Üniversitesi, September, 2020

Academic Staff Examination, Academic Staff Examination, Kocaeli Üniversitesi, September, 2020

Post Graduate, Post Graduate, Kocaeli Üniversitesi, July, 2020

Doctoral Examination, Doctoral Examination, Kocaeli Üniversitesi, January, 2020

Academic Staff Examination, Academic Staff Examination, Kocaeli Üniversitesi, January, 2020

Post Graduate, Post Graduate, Kocaeli Üniversitesi, January, 2020

Post Graduate, Post Graduate, Kocaeli Üniversitesi, January, 2020

Doctoral Examination, Doctoral Examination, Kocaeli Üniversitesi, December, 2019

Doctoral Examination, Doctoral Examination, Kocaeli Üniversitesi, December, 2019

Doctorate, Doctorate, Kocaeli Üniversitesi, November, 2019

Academic Staff Examination, Academic Staff Examination, Kocaeli Üniversitesi, July, 2019

Doctorate, Doctorate, Kocaeli Üniversitesi, July, 2019

Doctoral Examination, Doctoral Examination, Kocaeli Üniversitesi, June, 2019

Post Graduate, Post Graduate, Sakarya Üniversitesi, May, 2019

Doctorate, Doctorate, Kocaeli Üniversitesi, May, 2019

Post Graduate, Post Graduate, Sakarya Üniversitesi, May, 2019

Doctoral Examination, Doctoral Examination, Kocaeli Üniversitesi, May, 2019

Post Graduate, Post Graduate, Kocaeli Üniversitesi, April, 2019

Doctorate, Doctorate, Kocaeli Üniversitesi, March, 2019

Post Graduate, Post Graduate, Kocaeli Üniversitesi, February, 2019
Post Graduate, Post Graduate, Kocaeli Üniversitesi, January, 2019
Post Graduate, Post Graduate, Kocaeli Üniversitesi, January, 2019
Post Graduate, Post Graduate, Kocaeli Üniversitesi, January, 2019
Doctorate, Doctorate, Sakarya Üniversitesi, October, 2018
Doctoral Examination, Doctoral Examination, Sakarya Üniversitesi, October, 2018
Post Graduate, Post Graduate, Kocaeli Üniversitesi, July, 2018
Post Graduate, Post Graduate, Düzce Üniversitesi, June, 2018
Post Graduate, Post Graduate, Kocaeli Üniversitesi, June, 2018
Post Graduate, Post Graduate, Kocaeli Üniversitesi, June, 2018
Post Graduate, Post Graduate, Düzce Üniversitesi, June, 2018
Doctorate, Doctorate, Sakarya Üniversitesi, January, 2018
Doctoral Examination, Doctoral Examination, Kocaeli Üniversitesi, January, 2018
Doctoral Examination, Doctoral Examination, Kocaeli Üniversitesi, December, 2017
Post Graduate, Post Graduate, Kocaeli Üniversitesi, December, 2017
Doctoral Examination, Doctoral Examination, Kocaeli Üniversitesi, June, 2017
Doctoral Examination, Doctoral Examination, Kocaeli Üniversitesi, June, 2017
Doctoral Examination, Doctoral Examination, Kocaeli Üniversitesi, January, 2017
Doctorate, Doctorate, Sakarya Üniversitesi, October, 2016
Post Graduate, Post Graduate, Kocaeli Üniversitesi, June, 2016
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Kocaeli Üniversitesi, September, 2015
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Kocaeli Üniversitesi, September, 2015
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Sakarya Üniversitesi, January, 2015
Doctoral Examination, Doctoral Examination, Sakarya Üniversitesi, November, 2013

Designed Lessons

Küçük K., Nesnelerin İnterneti, Undergraduate, 2017 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- 1. 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)
- 2. Advanced Optimized Anomaly Detection System for IoT Cyberattacks Using Artificial Intelligence**
Farea A. H., Alhazmi O. H., Kucuk K.
CMC-COMPUTERS MATERIALS & CONTINUA, vol.78, no.2, pp.1525-1545, 2024 (SCI-Expanded)
- 3. A survey on communication protocols and performance evaluations for Internet of Things**
Bayılmış C., Ebleme M. A., Çavuşoğlu Ü., Küçük K., Sevin A.
Digital Communications and Networks, vol.8, no.6, pp.1094-1104, 2022 (SCI-Expanded)
- 4. A Novel Approach to D2D Discovery in PSN for Post-Disaster: Throughput Based Discovery Algorithm (TDA)**
Marttin V., Yüzgeç U., Bayılmış C., Küçük K.
WIRELESS PERSONAL COMMUNICATIONS, vol.119, no.4, pp.3339-3363, 2021 (SCI-Expanded)
- 5. Designing real-time IoT system course: Prototyping with cloud platforms, laboratory experiments and term project**

- Küçük K., Bayilmis C., Msongaleli D. L.
International Journal of Electrical Engineering and Education, vol.58, no.3, pp.743-772, 2021 (SCI-Expanded)
6. **Self-adaptive medium access control protocol for aggregated VLC-RF wireless networks**
Kucuk K., Msongaleli D. L., Akbulut O., Kavak A., Bayilmis C.
OPTICS COMMUNICATIONS, vol.488, 2021 (SCI-Expanded)
 7. **Comparative performance analysis of cooperative and multi dual-hop relay networks using MGF approach**
Asshad M., Kavak A., Küçük K., Ahmad Khan S.
INTERNATIONAL JOURNAL OF COMMUNICATION SYSTEMS, vol.33, 2020 (SCI-Expanded)
 8. **Crowd sensing aware disaster framework design with IoT technologies**
Küçük K., Bayilmis C., Sonmez A. F., Kacar S.
JOURNAL OF AMBIENT INTELLIGENCE AND HUMANIZED COMPUTING, vol.11, pp.1709-1725, 2020 (SCI-Expanded)
 9. **Using Moment Generating Function for Performance Analysis in Non-Regenerative Cooperative Relay Networks with Max-Min Relay Selection**
Asshad M., KAVAK A., KÜÇÜK K., Khan S. A.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.116, 2020 (SCI-Expanded)
 10. **Optimal resource utilisation algorithm for visible light communication-based vehicular ad-hoc networks**
Msongaleli D. L., Küçük K.
IET INTELLIGENT TRANSPORT SYSTEMS, vol.14, no.2, pp.65-72, 2020 (SCI-Expanded)
 11. **2.4 GHz Real-Time Prototyping Tool for OFDM Channel Estimation using USRP2 and LabVIEW**
Küçük K.
Journal of Circuits, Systems and Computers, vol.28, no.14, 2019 (SCI-Expanded)
 12. **Cooperative communications using relay nodes for next-generation wireless networks with optimal selection techniques: A review**
Asshad M., Khan S. A., Kavak A., Küçük K., Msongaleli D. L.
IEEJ TRANSACTIONS ON ELECTRICAL AND ELECTRONIC ENGINEERING, vol.14, no.5, pp.658-669, 2019 (SCI-Expanded)
 13. **Adaptive Polling Medium Access Control Protocol for Optic Wireless Networks**
Msongaleli D. L., Küçük K., Kavak A.
APPLIED SCIENCES-BASEL, no.6, 2019 (SCI-Expanded)
 14. **A Novel Fractional Frequency Reuse Scheme for Interference Management in LTE-A HetNets**
Khan S. A., Kavak A., Colak S., Küçük K.
IEEE ACCESS, vol.7, pp.109662-109672, 2019 (SCI-Expanded)
 15. **Smarttag: An Indoor Positioning System Based on Smart Transmit Power Scheme Using Active Tags**
ŞAHİN S., ÖZCAN H., KÜÇÜK K.
IEEE ACCESS, vol.6, pp.23500-23510, 2018 (SCI-Expanded)
 16. **RTWiFi-Lab: A real-time Wi-Fi laboratory platform on USRP and LabVIEW for wireless communications education and research**
KÜÇÜK K.
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, vol.26, no.1, pp.111-124, 2018 (SCI-Expanded)
 17. **Horizontal dilution of precision-based ultra-wideband positioning technique for indoor environments**
Kucuk K.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.22, no.5, pp.1307-1322, 2014 (SCI-Expanded)
 18. **Connectivity Analysis for Wireless Sensor Networks with Antenna Array Integrated Central Node**
KÜÇÜK K., KAVAK A.
WIRELESS PERSONAL COMMUNICATIONS, vol.72, no.2, pp.1361-1371, 2013 (SCI-Expanded)
 19. **A modified sectoral sweeper-based localization estimation and its implementation in a multi-hop**

wireless sensor networking environment by using OPNET

KÜÇÜK K., Bandirmali N., KAVAK A., ATMACA S.

SIMULATION-TRANSACTIONS OF THE SOCIETY FOR MODELING AND SIMULATION INTERNATIONAL, vol.89, no.6, pp.746-761, 2013 (SCI-Expanded)

20. **FPGA Based Implementation and Comparison of Beamformers for CDMA2000**
Dıkmese S., Kavak A., Küçük K., Şahin S., Tangel A.
WIRELESS PERSONAL COMMUNICATIONS, vol.57, pp.233-253, 2011 (SCI-Expanded)
21. **Scalable location estimation using smart antennas in wireless sensor networks**
KÜÇÜK K., KAVAK A.
AD HOC NETWORKS, vol.8, no.8, pp.889-903, 2010 (SCI-Expanded)
22. **Digital signal processor against field programmable gate array implementations of space-code correlator beamformer for smart antennas**
Dıkmese S., Kavak A., Küçük K., Şahin S., Tangel A., Dincer H.
IET MICROWAVES ANTENNAS & PROPAGATION, vol.4, pp.593-599, 2010 (SCI-Expanded)
23. **Capacity Improvement for TDD-MIMO Systems via AR Modeling Based Linear Prediction**
YİĞİT H., KAVAK A., KÜÇÜK K.
WIRELESS PERSONAL COMMUNICATIONS, vol.52, no.2, pp.411-418, 2010 (SCI-Expanded)
24. **A Practical Space-Code Correlator Receiver for DSP Based Software Radio Implementation in CDMA2000**
KÜÇÜK K., KAVAK A., KARAKOC M., YİĞİT H., Ozdemir C.
WIRELESS PERSONAL COMMUNICATIONS, vol.49, no.2, pp.245-261, 2009 (SCI-Expanded)
25. **Software radio implementation of a smart antenna system on digital signal processors for cdma2000**
Kucuk K., KARAKOC M., KAVAK A.
INTELLIGENT INFORMATION TECHNOLOGY, PROCEEDINGS, vol.3356, pp.97-106, 2004 (SCI-Expanded)

Articles Published in Other Journals

1. **Machine Learning-based Intrusion Detection Technique for IoT: Simulation with Cooja**
Farea A. H., KÜÇÜK K.
International Journal of Computer Network and Information Security, vol.16, no.1, pp.1-23, 2024 (Scopus)
2. **MACHINE AND DEEP LEARNING-BASED INTRUSION DETECTION AND COMPARISON IN INTERNET OF THINGS**
AMAROCHE S., KÜÇÜK K.
Journal of Naval Sciences and Engineering, vol.18, no.2, pp.333-361, 2022 (Peer-Reviewed Journal)
3. **DDS-XRCE Standard Performance Evaluation of Different Communication Scenarios in IoT Technologies**
Şolpan Ş., Küçük K.
EAI ENDORSED TRANSACTIONS ON INTERNET OF THINGS, vol.8, pp.1-15, 2022 (Peer-Reviewed Journal)
4. **Detections of IoT Attacks via Machine Learning-Based Approaches with Cooja**
Farea A. H., Küçük K.
EAI ENDORSED TRANSACTIONS ON INTERNET OF THINGS, vol.7, no.28, pp.1-12, 2022 (Peer-Reviewed Journal)
5. **Enhancement Trust Management in IoT to Detect ON-OFF Attacks with Cooja**
Farea A. A., KÜÇÜK K.
International Journal of Multidisciplinary Studies and Innovative Technologies, vol.5, no.2, pp.123-128, 2021 (Peer-Reviewed Journal)
6. **Dijital Kütüphanelerde Dokümanlardan Bilgi Geri Kazanımı için Kullanılan Güncel Teknolojiler: Derleme Çalışması**
Mutlu A., Abdısamad M. A., Kabasakal O., Göz F., Tüfekçi Ö., Küçük K.
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.9, no.1, pp.79-90, 2021 (Peer-Reviewed Journal)
7. **Endüstriyel IoT Bulut Uygulamaları için Düşük Maliyetli Modbus/MQTT Ağ Geçidi Tasarımı ve**

Gerçekleştirilmesi

Erdoğan H., Küçük K., Khan S. A.

Bilecik Şeyh Edebali Üniversitesi Fen Bilimleri Dergisi, vol.7, no.1, pp.170-183, 2020 (Peer-Reviewed Journal)

8. **CoAP and Its Performance Evaluation**
Ebleme M. A., Bayılmış C., Çavuşoğlu Ü., Küçük K.
Sakarya University Journal of Science, vol.24, no.1, pp.78-85, 2020 (Peer-Reviewed Journal)
9. **MIMO Sistemlerde Alamouti Uzay Zaman Blok Kodlamanın Weibull Sönümlenme Kanalı Üzerindeki Performans Analizi**
Çakır A. C., Yiğit H., Küçük K.
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.7, pp.2010-2018, 2019 (Peer-Reviewed Journal)
10. **IoT Teknolojilerini Kullanan Afet Sonrası Yönetim Sistemi**
Küçük K., Bayılmış C., Sönmez A. F., Kaçar S.
Akademik Platform Mühendislik ve Fen Bilimleri Dergisi, vol.7, pp.124-131, 2019 (Peer-Reviewed Journal)
11. **A Power Control Algorithm (PCA) and Software Tool for Femtocells in LTE-A Networks**
KHAN S., ASHAD M., KÜÇÜK K., KAVAK A.
Sakarya University Journal of Science, vol.22, pp.1124-1129, 2018 (Peer-Reviewed Journal)
12. **Nesnelerin İnterneti Teknolojileri ile Gerçek Zamanlı Okul Servisi ve Öğrenci Takip Sistemi Tasarımı**
ÇELİK B., KÜÇÜK K., BAYILMIŞ C.
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.6, pp.1211-1223, 2018 (Peer-Reviewed Journal)
13. **Simulation of Indoor Positioning System Based on Radio Frequency**
Özcan H., Altuncu M. A., Küçük K., Şahin S.
IOSR Journal of Computer Engineering, vol.19, pp.13-18, 2017 (Peer-Reviewed Journal)
14. **Channel Capacity Analysis of Multiple Antenna Systems for Next Generation Wireless Communications Systems**
DHUHEIR M., ASSHAD M., KÜÇÜK K.
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.5, pp.429-440, 2017 (Peer-Reviewed Journal)
15. **Geniş bant konum belirleme sistemi performans analizi ve iyileştirilmesi**
KÜÇÜK K.
SAKARYA UNIVERSITY JOURNAL OF SCIENCE, vol.21, no.1, pp.26-33, 2017 (Peer-Reviewed Journal)
16. **Geniş Bant Konum Belirleme Sistemi Performans Analizi ve İyileştirilmesi**
Küçük K.
SAKARYA UNIVERSITY JOURNAL OF SCIENCE, vol.21, pp.26, 2017 (Peer-Reviewed Journal)
17. **Üçüncü Nesil CDMA Sistemler İçin Yeni Bir Akıllı Anten Algoritması Gerçekleştirilmesi ve Performans Analizi**
Küçük K., Mustafa K., Kavak A., Yiğit H.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.21, no.4, pp.801-808, 2006 (Scopus)
18. **Implementation and performance analysis of a novel smart antenna algorithm for 3G CDMA systems, Üçüncü nesil CDMA sistemler için yeni bir akıllı anten algoritması gerçekleştirilmesi ve performans analizi**
Küçük K., Karakoc M., Kavak A., Yiğit H.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.21, pp.801-808, 2006 (Scopus)
19. **Overview of Smart Antenna Methodologies for Mobile Communications**
KARAKOÇ M., YİĞİT H., KÜÇÜK K., KAVAK A.
Journal of Naval Science and Engineering, vol.2, pp.51-66, 2004 (Peer-Reviewed Journal)

Books & Book Chapters

1. **Nesnelerin İnternet'i IoT, İş Modeline Etkisi, Büyük Veri, Bulut Bilişim**

Bayılmış C., Küçük K.

in: Yapay Zeka Dijital Sistemler ve Uygulamaları, Kubat Cemalettin, Editor, Papatya Yayıncılık, İstanbul, pp.100-120, 2021

2. **Nesnelerin İnternet'i: Teori ve Uygulamaları**

Bayılmış C., Küçük K.

Papatya Yayıncılık, İstanbul, 2019

Refereed Congress / Symposium Publications in Proceedings

1. **SDN and NFV Based Dynamic QoS Management for 5G and Beyond Networks**

Çubukçu Ö., Çubukçu A., Kavak A., Küçük K.

2024 32nd Signal Processing and Communications Applications Conference (SIU), Mersin, Turkey, 15 - 18 May 2024, pp.1-4

2. **Performance Evaluation of 5G RAN Slicing in terms of Physical Resource Usage**

Çubukçu A., Çubukçu Ö., Kavak A., Küçük K.

2024 32nd Signal Processing and Communications Applications Conference (SIU), Mersin, Turkey, 01 May 2024, pp.1-4

3. **A Study on Slice-Aware Industrial Edge Applications for Next-Generation Private Networks**

Çubukçu A., Çubukçu Ö., Sabucu Sandal Y., Kavak A., Küçük K.

4th International Informatics and Software Engineering Conference, Ankara, Turkey, 21 December 2023

4. **Improving Intrusion Detection Systems for IoT Devices using Automated Feature Generation based on ToN_IoT dataset**

Eren K. K., Küçük K.

2023 8th International Conference on Computer Science and Engineering (UBMK), Burdur, Turkey, 05 September 2023, pp.276-281

5. **Learning to Rank for Text Summarization: Revisiting the Features and Methods for Turkish Bank Documents**

GÖZ F., Şener F., MUTLU A., KÜÇÜK K., Temur M.

2021 International Conference on INnovations in Intelligent SysTems and Applications (INISTA), Kocaeli, Turkey, 25 - 27 August 2021

6. **Türkçe Metinlerden Anahtar Kelime Çıkarma için Merkezilik Ölçütlerinin İncelenmesi**

GÖZ F., MUTLU A., KÜÇÜK K., Temur M., GÜN A.

29. IEEE SİNYAL İŞLEME VE İLETİŞİM UYGULAMALARI KURULTAYI, İstanbul, Turkey, 09 June 2021

7. **Comparison of Classical ML with DL Methods for Network Intrusion Detection in IoT**

Amarouche S., KÜÇÜK K.

2nd International Symposium on Applied Science and Engineering ISASE 2021, Erzurum, Turkey, 07 April 2021

8. **DENİZ ARAÇLARI İÇİN NESNELERİN İNTERNETİ TEKNOLOJİLERİ TEMELLİ ŞARJ KONTROL SİSTEMİ TASARIMI**

Ustaoglu Y., KÜÇÜK K.

6TH INTERNATIONAL CONGRESS ON ENGINEERING, ARCHITECTURE AND DESIGN, İstanbul, Turkey, 17 December 2020, pp.1106

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KÜÇÜK K.
2015

Academic and Administrative Experience

2023 - Continues	Kurumsal Araştırma Geliştirme Koordinatörü	Kocaeli University, REKTÖRLÜK, REKTÖRLÜK
2021 - Continues	Head of Department	Kocaeli University, Mühendislik Fakültesi
2019 - Continues	Member of IT Commission	Kocaeli University, REKTÖRLÜK, REKTÖRLÜK
2019 - Continues	Rectorate Commissioner	Kocaeli University, Mühendislik Fakültesi, Bilgisayar Mühendisliği
2019 - Continues	Enstitü Yönetim Kurulu Üyesi	Kocaeli University, Fen Bilimleri Enstitüsü

2021 - 2022	Deputy Director of Continuing Education Center	Kocaeli University, Mühendislik Fakültesi, Bilgisayar Mühendisliği
2015 - 2021	Head of Department	Kocaeli University, Bilgisayar Mühendisliği Bölümü
2012 - 2017	University Executive Board Member	Kocaeli University, Gazanfer Bilge Meslek Yüksekokulu
2015 - 2016	Head of Informatics Commission	Kocaeli University, REKTÖRLÜK
2015 - 2015	University Executive Board Member	Kocaeli Üniversitesi, Sürekli Eğitim Araştırma Ve Uygulama Merkezi (Köseme)
2014 - 2015	Head of Department	Kocaeli Üniversitesi, Gazanfer Bilge Meslek Yüksekokulu, Muhasebe Ve Vergi Bölümü
2010 - 2015	Head of Department	Kocaeli Üniversitesi, Gazanfer Bilge Meslek Yüksekokulu, Büro Hizmetleri Ve Sekreterlik Bölümü

Courses

Sayısal Veri İletişimi, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016
Nesnelerin İnterneti, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018
Sayısal Veri İletişimi, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016
Bilgisayar Ağlarında İleri Konular, Doctorate, 2019 - 2020
Nesnelerin İnterneti, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018
Mantıksal Tasarım ve Uygulamaları, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016
Kablosuz Haberleşme ve Gezgin Sistemler, Postgraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016
Mantıksal Tasarım ve Uygulamaları, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016
Bilgisayar Mimarisi ve Organizasyonu, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016
Bilgisayar Ağları ve Haberleşmesi, Postgraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016
Bilgisayar Organizasyonu ve Mimarisi, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016

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Küçük K., Activity Recognition for Ambient Sensing Data and Rule Based Anomaly Detection, Postgraduate, E.SEYEDKAZEMI(Student), 2022
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Küçük K., Nesnelerin interneti uygulamalarının cupcarbon ile benzetimi: Akıllı şehir örnekleri, Postgraduate,

M.AKKURT(Student), 2019

Küçük K, Makine öğrenmesi yöntemleri ile insan aktivite tespit sistemi tasarımı, Postgraduate, K.KIVANÇ(Student), 2019

Küçük K, Konum tespitinde yol kaybı modellerinin performans analizi, Postgraduate, K.NİLGÜN(Student), 2018

Activities in Scientific Journals

Kocaeli Journal of Science and Engineering, Editor, 2019 - 2019

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Scientific Refereeing

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AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, SCI Journal, July 2019

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- Küçük K, Uluslararası Bilgisayar Bilimleri ve Mühendisliği Konferansı (UBMK 2018), Scientific Congress, Sarajevo, Bosnia And Herzegovina, Eylül 2018
- Küçük K, 13th IEEE International Conference on Emerging Technologies (ICET 2017), Scientific Congress, Islamabad, Pakistan, Aralık 2017
- Küçük K, 2017 Asia Pacific Microwave Conference (APMC2017), Scientific Congress, Kuala-Lumpur, Malaysia, Kasım 2017
- Küçük K, Uluslararası Bilgisayar Bilimleri ve Mühendisliği Konferansı (UBMK 2017), Scientific Congress, Antalya, Turkey, Ekim 2017
- Küçük K, 5th International Conference on Communications, Networking and Information Technology, Scientific Congress, Dubai, United Arab Emirates, Aralık 2011
- Küçük K, Ulusal Teknik Eğitim, Mühendislik ve Eğitim Bilimleri Genç Araştırmacılar Sempozyumu, Scientific Congress, Kocaeli, Turkey, Haziran 2007

Mobility Activity

Post Doc, Post Doc, University of Texas at Dallas, United States Of America, 2011 - 2012

Metrics

Publication: 118

Citation (WoS): 255

Citation (Scopus): 391

H-Index (WoS): 9

H-Index (Scopus): 10

Congress and Symposium Activities

- 2017 International Conference on Computer Science and Engineering (UBMK), Working Group, Antalya, Turkey, 2018
- 3 th International Conference on Computer Science and Engineering UBMK'18, Session Moderator, Sarajevo, Bosnia And Herzegovina, 2017

Research Areas

Information Systems, Communication and Control Engineering, Computer Sciences, Electrical and Electronics

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Non Academic Experience

University of Texas at Dallas Electrical Engineering Department

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Milli Eğitim Bakanlığı