

## Doç. Dr. SEDAT GÖRMÜŞ

### Kişisel Bilgiler

İş Telefonu: [+90 462 377 2968](tel:+904623772968)

E-posta: [sedatgormus@ktu.edu.tr](mailto:sedatgormus@ktu.edu.tr)

Web: <http://scholar.google.com.tr/citations?user=cUB8ROoAAAAJ&hl=en>

### Uluslararası Araştırmacı ID'leri

ORCID: 0000-0003-2172-2144

Yoksis Araştırmacı ID: 216562

### Eğitim Bilgileri

Doktora, University of Bristol, Mühendislik Fakültesi, Electrical&Electronics, Birleşik Krallık 2004 - 2008

Lisans, Karadeniz Teknik Üniversitesi, Mühendislik Fakültesi, Türkiye 1995 - 1999

### Yabancı Diller

İngilizce, C1 İleri

### Sertifika, Kurs ve Eğitimler

Diğer, Pan European Management Programme, PEMP - 2, 2013

Diğer, Pan European Management Programme, PEMP - 1, 2011

### Yaptığı Tezler

Doktora, Cooperative Relaying in Wireless Networks., University of Bristol, Electrical&Electronics Engineering, Communications Research Laboratory, 2008

### Araştırma Alanları

Bilgisayar Bilimleri, Bilgisayar Ağları, Haberleşme ve Ağ Protokolleri , Elektrik-Elektronik Mühendisliği, Elektronik, Dönüştürücüler ve Algılama Aygıtları , Mühendislik ve Teknoloji

### Akademik Unvanlar / Görevler

Doç. Dr., Karadeniz Teknik Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2021 - Devam Ediyor

### Yönetilen Tezler

GÖRMÜŞ S., Storage Centric Wireless Sensor Networks, Yüksek Lisans, A.Gokce(Öğrenci), 2013

GÖRMÜŞ S., Load Coordination Mechanisms for Smart Electricity Grids, Yüksek Lisans, R.Martinez(Öğrenci), 2012  
GÖRMÜŞ S., Communiation Architectures for AMI Networks, Yüksek Lisans, F.Ramos(Öğrenci), 2012

## Jüri Üyelikleri

Tez Savunma (Yüksek Lisans), Yüksek lisans değerlendirme jürisi, University of Bristol, Eylül, 2012  
Tez Savunma (Yüksek Lisans), Yüksek lisans tez , University of Bristol, Eylül, 2011

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **A Decentralized Proxy-JRC Authentication System for Scalable IETF 6TiSCH Networks**  
Aydin H., Gormus S., Aydin B.  
IEEE ACCESS, cilt.12, ss.90952-90970, 2024 (SCI-Expanded)
- II. **Integration of Steerable Smart Antennas to IETF 6TiSCH Protocol for High Reliability Wireless IoT Networks**  
Kulcu S., GÖRMÜŞ S., Jin Y.  
IEEE ACCESS, cilt.9, ss.147780-147790, 2021 (SCI-Expanded)
- III. **Enabling space time division multiple access in IETF 6TiSCH protocol**  
GÖRMÜŞ S., KULCU S.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, cilt.27, sa.6, ss.4151-4166, 2019 (SCI-Expanded)
- IV. **Content Centric Cross-Layer Scheduling for Industrial IoT Applications Using 6TiSCH**  
Jin Y., Raza U., Aijaz A., Sooriyabandara M., Gormus S.  
IEEE ACCESS, cilt.6, ss.234-244, 2018 (SCI-Expanded)
- V. **Security for the internet of things: a survey of existing mechanisms, protocols and open research issues**  
GÖRMÜŞ S., AYDIN H., ULUTAŞ G.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, cilt.33, sa.4, ss.1247-1272, 2018 (SCI-Expanded)
- VI. **Content centric routing in IoT networks and its integration in RPL**  
Jin Y., GÖRMÜŞ S., KULKARNI P., Sooriyabandara M.  
COMPUTER COMMUNICATIONS, ss.87-104, 2016 (SCI-Expanded)
- VII. **Reconfiguring Array Codes**  
Sandell M., Tosato F., Gormus S.  
IEEE COMMUNICATIONS LETTERS, cilt.19, sa.11, ss.1993-1996, 2015 (SCI-Expanded)
- VIII. **Opportunistic RPL for reliable AMI mesh networks**  
Gormus S., Tosato F., Fan Z., Bocus Z., Kulkarni P.  
WIRELESS NETWORKS, cilt.20, sa.8, ss.2147-2164, 2014 (SCI-Expanded)
- IX. **A residential PHEV load coordination mechanism with renewable sources in smart grids**  
Oviedo R. M., Fan Z., Gormus S., Kulkarni P.  
INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, cilt.55, ss.511-521, 2014 (SCI-Expanded)
- X. **A Comparison of Centralized and Distributed Monitoring Architectures in the Smart Grid**  
Oviedo R. M., Ramos F., Gormus S., Kulkarni P., Sooriyabandara M.  
IEEE SYSTEMS JOURNAL, cilt.7, sa.4, ss.832-844, 2013 (SCI-Expanded)
- XI. **Smart Grid Communications: Overview of Research Challenges, Solutions, and Standardization Activities**  
Fan Z., Kulkarni P., Gormus S., Efthymiou C., Kalogridis G., Sooriyabandara M., Zhu Z., Lambotharan S., Chin W. H.  
IEEE COMMUNICATIONS SURVEYS AND TUTORIALS, cilt.15, sa.1, ss.21-38, 2013 (SCI-Expanded)
- XII. **AMI Mesh Networks-A Practical Solution and Its Performance Evaluation**

Kulkarni P., Gormus S., Fan Z., Ramos F.

IEEE TRANSACTIONS ON SMART GRID, cilt.3, sa.3, ss.1469-1481, 2012 (SCI-Expanded)

XIII. **A Mesh-Radio-Based Solution for Smart Metering Networks**

Kulkarni P., Gormus S., Fan Z., Motz B.

IEEE COMMUNICATIONS MAGAZINE, cilt.50, sa.7, ss.86-95, 2012 (SCI-Expanded)

## **Diğer Dergilerde Yayınlanan Makaleler**

I. **An adaptive, balanced and energy efficient clustering mechanism for UAV networks**

Görmüş S., Kiran H. E.

PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, cilt.27, sa.2, ss.220-228, 2021 (ESCI)

II. **The reign of EVs? An economic analysis from consumer's perspective**

Fan Z., Martinez Oviedo R., GÖRMÜŞ S., Kulkarni P.

IEEE Electrification Magazine, cilt.2, sa.2, ss.61-71, 2014 (ESCI)

## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

I. **Node Balancing in Neighbor 6TiSCH Networks Komsu 6tisch Ağlarda Dugum Dengeleme**

Demir E., GÖRMÜŞ S.

8th International Conference on Computer Science and Engineering, UBMK 2023, Burdur, Türkiye, 13 - 15 Eylül 2023, ss.559-563

II. **Improving Synchronization Time in 6TiSCH Networks with Smart Antennas Akilli Antenlere Sahip 6TiSCH Ağlarda Senkronizasyon Süresinin İyileştirilmesi**

Kulcu S., GÖRMÜŞ S.

30th Signal Processing and Communications Applications Conference, SIU 2022, Safranbolu, Türkiye, 15 - 18 Mayıs 2022

III. **Context-Aware Caching in Wireless IoT Networks**

Akhtari Z., mustafa n., GÖRMÜŞ S.

2019 11th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 28 - 30 Kasım 2019

IV. **Resource Management in Distributed 6TiSCH Networks**

Dehghan P., AYDIN H., GÖRMÜŞ S.

5th International Conference on Computer Science and Engineering (UBMK), Diyarbakır, Türkiye, 9 - 11 Eylül 2020, ss.349-354

V. **A Generic Clique Based Distributed Caching Approach For Wireless IoT Networks**

mustafa n., GÖRMÜŞ S.

2019 4th International Conference on Computer Science and Engineering (UBMK), Samsun, Turkey, 11 - 15 Eylül 2019

VI. **Dynamic Formation for Unmanned Aerial Vehicles Network**

KIRAN H. E., GÖRMÜŞ S.

2019 4th International Conference on Computer Science and Engineering (UBMK), Samsun, Türkiye, 11 - 15 Eylül 2019

VII. **İNSANSIZ HAVA ARAÇLARI AĞINDA VERİ TRAFİĞİNİ DENGELEYEREK DİNAMİK AĞ FORMASYONU**

KIRAN H. E., GÖRMÜŞ S.

V. SCIENCE, TECHNOLOGY AND INOVATION CONGRESS, Antalya, Türkiye, 17 - 21 Nisan 2019, ss.43

VIII. **A Storage Centric Approach to Authentication on Internet of Things**

Boumaiza Y., AYDIN H., GÖRMÜŞ S.

2nd International Symposium on Multidisciplinary Studies and Innovative Technologies, ISMSIT 2018,

Kizilcahamam, Ankara, Türkiye, 19 - 21 Ekim 2018

- IX. **A new user authentication mechanism for IETF 6TiSCH protocol**  
AYDIN H., GÖRMÜŞ S.  
2018 26th Signal Processing and Communications Applications Conference (SIU), İzmir, Türkiye, 2 - 05 Mayıs 2018, ss.1-4
- X. **A New User Authentication Mechanism for IETF 6TiSCH Protocol**  
AYDIN H., GÖRMÜŞ S.  
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Türkiye, 2 - 05 Mayıs 2018
- XI. **QoS for IETF 6TiSCH Protocol**  
İbrahimova D., GÖRMÜŞ S.  
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Türkiye, 2 - 05 Mayıs 2018
- XII. **A Distributed User Authentication Mechanism for IETF 6TiSCH Protocol**  
AYDIN H., GÖRMÜŞ S., Jin Y.  
87th IEEE Vehicular Technology Conference (VTC-Spring), Porto, Portekiz, 3 - 06 Haziran 2018
- XIII. **A Distributed User Authentication Mechanism for 6TiSCH Protocol**  
AYDIN H., GÖRMÜŞ S.  
2nd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Kizilcahamam, Türkiye, 19 - 21 Ekim 2018, ss.470-474
- XIV. **An Energy Efficient IoT Protocol for Healthcare at Home**  
BEKTAŞ M., GÖRMÜŞ S.  
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Türkiye, 2 - 05 Mayıs 2018
- XV. **A Storage Centric Approach to Authentication on Internet of Things**  
Boumaiza Y., AYDIN H., GÖRMÜŞ S.  
2nd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Kizilcahamam, Türkiye, 19 - 21 Ekim 2018, ss.666-672
- XVI. **A protocol for Internet of Things : IETF 6TiSCH Nesnelerin İnterneti İçin Bir Protokol : IETF 6TiSCH**  
GÖRMÜŞ S., Yavuz A. F.  
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Türkiye, 15 - 18 Mayıs 2017
- XVII. **A protocol for Internet of Things : IETF 6TiSCH**  
GÖRMÜŞ S., Yavuz A. F.  
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Türkiye, 15 - 18 Mayıs 2017
- XVIII. **Isolating SDN Control Traffic with Layer-2 Slicing in 6TiSCH Industrial IoT Networks**  
Baddeley M., Nejabati R., Oikonomou G., GÖRMÜŞ S., Sooriyabandara M., Simeonidou D.  
IEEE Conference Network Function Virtualization and Software Defined Networks (NFV-SDN), Berlin, Almanya, 6 - 08 Kasım 2017, ss.247-251
- XIX. **A Novel Energy Aware Routing Function for Internet of Things Networks**  
Erdol H., GÖRMÜŞ S., AYDOĞDU M. C.  
10th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Türkiye, 30 Kasım - 02 Aralık 2017, ss.1314-1318
- XX. **6Tisch Protokolünde Dügümler Arası Senkronizasyon**  
GÖRMÜŞ S.  
IEEE SIU 2015, Malatya, Türkiye, 16 - 19 Mayıs 2015, ss.1-6
- XXI. **A Storage Centric Approach to Scalable Sensor Networks**  
GÖRMÜŞ S., Koc A. G., Jin Y., Sooriyabandara M.  
IEEE VTC, Glasgow, Birleşik Krallık, 11 - 14 Mayıs 2015, ss.1100-1106
- XXII. **Synchronisation in 6Tisch Networks**  
GÖRMÜŞ S.  
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Türkiye, 16 - 19 Mayıs 2015, ss.535-539
- XXIII. **Link Quality Aware and Content Centric Data Aggregation in Lossy Wireless Networks**

Jin Y., Gormus S., Kulkarni P., Sooriyabandara M.

IEEE Wireless Communications and Networking Conference (WCNC), İstanbul, Türkiye, 6 - 09 Nisan 2014, ss.3082-3087

- XXIV. **Energy efficient body area networking based on off-the-shelf wireless sensors**  
GÖRMÜŞ S.  
ACM 8th International Conference on Body Area Networks, Boston, Massachusetts, Amerika Birleşik Devletleri, 30 Eylül - 02 Ekim 2013, ss.103-107
- XXV. **Efficient Cooperative Anycasting for AMI Mesh Networks**  
Gormus S., Bocus M. Z.  
IEEE Global Communications Conference (GLOBECOM), Georgia, Amerika Birleşik Devletleri, 9 - 13 Aralık 2013, ss.2661-2666
- XXVI. **Content centric and Load-balancing Aware Dynamic data Aggregation in Multihop wireless networks**  
Jin Y., KULKARNI P., Gormus S., Sooriyabandara M.  
2012 IEEE 8th International Conference on Wireless and Mobile Computing, Networking and Communications, WiMob 2012, Barcelona, İspanya, 8 - 10 Ekim 2012, ss.179-186
- XXVII. **Energy efficient body area networking for mHealth applications**  
DUMANLI S., Gormus S., CRADDOCK I. J.  
2012 6th International Symposium on Medical Information and Communication Technology, ISMICT 2012, La Jolla, CA, Amerika Birleşik Devletleri, 25 - 29 Mart 2012
- XXVIII. **WISEMEN White Space for Smart Metering**  
Subramani S., Fan Z., GÖRMÜŞ S., Kulkarni P., Sooriyabandara M., Hau Chin W.  
2012 IEEE PES Innovative Smart Grid Technologies (ISGT), Washington, DC, USA, 16 - 20 Ocak 2012, ss.1-6
- XXIX. **Tree Balancing in Smart Grid Advanced Metering Infrastructure Mesh Networks**  
KULKARNI P., Gormus S., FAN Z.  
IEEE/ACM International Conference on Green Computing and Communications (GreenCom) / IEEE International Conference on Internet of Things (iThings) / 5th IEEE International Conference on Cyber, Physical and Social Computing (CPSCom), Besançon, Fransa, 20 - 23 Kasım 2012, ss.109-115
- XXX. **Residential Energy Demand Management in Smart Grids**  
Oviedo R. J. M., FAN Z., Gormus S., KULKARNI P., Kaleshi D.  
IEEE PES Transmission and Distribution Conference and Exposition, Florida, Amerika Birleşik Devletleri, 7 - 10 Mayıs 2012
- XXXI. **A self organising mesh networking solution based on enhanced RPL for smart metering communications**  
Kulkarni P., GÖRMÜŞ S., Fan Z., Motz B.  
2011 IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks, Lucca, Italy, 20 - 24 Haziran 2011, ss.1-6
- XXXII. **Opportunistic Communications to Improve Reliability of AMI Mesh Networks**  
Gormus S., FAN Z., BOCUS Z., KULKARNI P.  
2nd IEEE PES International Conference and Exhibition on Innovative Smart Grid Technologies (ISGT Europe), Manchester, Birleşik Krallık, 5 - 07 Aralık 2011
- XXXIII. **Distributed Resource Allocation in Small Cellular Networks - Test-bed Experiments and Results**  
KULKARNI P., Gormus S., CHIN W. H., HAINES R. J.  
7th IEEE International Wireless Communications and Mobile Computing Conference (IWCMC), İstanbul, Türkiye, 4 - 08 Temmuz 2011, ss.1262-1267
- XXXIV. **Application of Multiple-Wireless to a Visual Localisation System for Emergency Services**  
EFTHYMIU C., Gormus S., FAN Z., Calway A., Mayo-Cuevas W., Doufexi A.  
21st Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), İstanbul, Türkiye, 26 - 30 Eylül 2010, ss.2539-2544
- XXXV. **The POWER of Networking: How Networking can Help Power Management**  
Gormus S., KULKARNI P., FAN Z.  
1st IEEE International Conference on Smart Grid Communications (SmartGridComm), Maryland, Amerika Birleşik

Devletleri, 4 - 06 Ekim 2010, ss.561-565

**XXXVI. Implementation of Fast Start-up Equaliser Using TI C6x Processors**

TÜRK K., KAYA İ., GÖRMÜŞ S.

European DSP Education and Research Symposium, Münih, Almanya, 1 - 03 Nisan 2006, ss.41-48

**XXXVII. Performance Comparison of Cooperative and Non-cooperative Relaying Mechanisms in Wireless Networks**

Gormus S., Kaleshi D., McGeehan J., Munro A.

IEEE Wireless Communications and Networking Conference, Nevada, Amerika Birleşik Devletleri, 3 - 06 Nisan 2006, ss.890-896

**XXXVIII. Relaying and routing in wireless networks: a throughput comparison**

Gormus S., Kaleshi D., McGeehan J., Munro A.

63rd IEEE Vehicular Technology Conference, Melbourne, Avustralya, 7 - 10 Mayıs 2006, ss.440-445

## **Desteklenen Projeler**

GÖRMÜŞ S., TÜBİTAK Projesi, Yüksek Performanslı Kablosuz Duyarga Ağları, 2015 - Devam Ediyor

GÖRMÜŞ S., Diğer Uluslararası Fon Programları, IETF 6Tisch Protocol Implmentation, 2015 - Devam Ediyor

## **Bilimsel Dergilerdeki Faaliyetler**

TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, Editör, 2015 - Devam Ediyor

## **Bilimsel Kuruluşlardaki Üyelikler / Görevler**

IEEE, Üye, 2014 - Devam Ediyor

## **Bilimsel Hakemlikler**

IEEE IoT Journal, SCI Kapsamındaki Dergi, Kasım 2016

TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES , SCI Kapsamındaki Dergi, Aralık 2015

IEEE COMMUNICATIONS LETTERS, SCI Kapsamındaki Dergi, Aralık 2015

TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES , SCI Kapsamındaki Dergi, Aralık 2015

IEEE COMMUNICATIONS LETTERS, SCI Kapsamındaki Dergi, Aralık 2015

TÜBİTAK Projesi, Aralık 2015

TÜBİTAK Projesi, Aralık 2015

TÜBİTAK Projesi, Aralık 2015

IEEE COMMUNICATIONS LETTERS, SCI Kapsamındaki Dergi, Kasım 2015

TÜBİTAK Projesi, Ekim 2015

Journal of Information Security and Applications, Diğer Dergiler, Haziran 2015

IEEE COMMUNICATION LETTERS, SCI Kapsamındaki Dergi, Nisan 2015

TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES , SCI Kapsamındaki Dergi, Şubat 2015

IEEE JSAC, SCI Kapsamındaki Dergi, Kasım 2012

Journal of Distributed Sensor Networks, Diğer Dergiler, Haziran 2012

IEEE Systems Journal, SCI Kapsamındaki Dergi, Nisan 2012

IEEE Network Magazine, SCI Kapsamındaki Dergi, Mart 2011

IEEE Network Magazine, SCI Kapsamındaki Dergi, Mart 2011

## **Bilimsel Danışmanlıklar**

NETAŞ, Kurum veya Organizasyonlar İçin Yapılan Danışmanlık, Türkiye, 2015 - 2016

## **Metrikler**

Yayın: 55

Atıf (WoS): 574

Atıf (Scopus): 780

H-İndeks (WoS): 10

H-İndeks (Scopus): 13

## **Burslar**

OSIRIS Project, Yabancı Ülkelerin Resmi Kurumları, 2008 - Devam Ediyor

## **Ödüller**

GÖRMÜŞ S., RDC Award, Toshiba Corporate Research and Development Centre, Mart 2012

## **Akademi Dışı Deneyim**

Mavi Alp Bilgi Teknolojileri

TOSHIBA Research Europe Ltd.

TOSHIBA RESEARCH EUROPE LTD.

Ticari Kuruluş (özel), Toshiba Research Europe Ltd.

TOSHIBA RESEARCH EUROPE LTD.

Ticari Kuruluş (özel), Xad Communication Ltd.

XAD Communications Ltd.

Ticari Kuruluş (özel), Provision Communication Technologies

Provision Communications Ltd.

Bizitek