

Assoc. Prof. Hüseyin Uğur Yıldız

Personal Information

Office Phone: [+90 585 000 00](tel:+9058500000)

Email: hugur.yildiz@tedu.edu.tr

Web: <https://avesis.tedu.edu.tr/hugur.yildiz>

International Researcher IDs

ScholarID: nQwHS1gAAAAJ

ORCID: 0000-0002-1556-2634

Publons / Web Of Science ResearcherID: S-6587-2016

ScopusID: 56242674200

Yoksis Researcher ID: 259083

Biography

Huseyin Ugur Yildiz received his B.Sc. degree from Bilkent University, Ankara, Turkey, in 2009; M.Sc. and Ph.D. degrees from TOBB University of Economics and Technology, Ankara, in 2013 and 2016, all in electrical and electronics engineering, respectively. He worked for Turk Telekom (in 2010-2015) and Turkish Aerospace Industries (in 2015-2016), Ankara, where he designed the network architectures of Safer Internet Service and the ANKA unmanned aerial vehicle. He is currently an associate professor at the electrical and electronics engineering department at TED University, Ankara, Turkey. His research focuses on modeling and solving mathematical optimization problems for wireless ad hoc & sensor networks, underwater acoustic networks, and smart grids. He is a senior member of the IEEE.

Education Information

Doctorate, TOBB University of Economics and Technology, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, Turkey 2014 - 2016

Postgraduate, TOBB University of Economics and Technology, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, Turkey 2011 - 2013

Undergraduate, Ihsan Dogramaci Bilkent University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, Turkey 2005 - 2009

Foreign Languages

English, C2 Mastery

Certificates, Courses and Trainings

Other, CTL: TEDÜ' de Yenilikçi Eğitim Seminer Serisi-1 (Mikro-kredi Uygulaması: ENG 102 Dersi Örneği), TED University, 2023

Other, CTL: Üretken Yapay Zeka ve Eğitimde Kullanımı, AI-Powered Assessment Practices in Higher Education: Revolution or Disruption?, TED University, 2023

Other, CTL: Akademik Danışmanlık ve Ders Kayıt Soru-Cevap Oturumu, TED University, 2023

Other, CTL: ATID Girişimcilik Ofisi ve TEDU-GO Sanal Kuluçka Programı, TED University, 2023

Other, CTL: Professional Higher Education, TED University, 2023
Other, CTL: Writing with Pleasure, TED University, 2023
Other, CTL: TED Üniversitesi Toplumsal Cinsiyet Eşitliği Planı Çalışmaları, TED University, 2023
Other, CTL: e-Engineering/ e-Mühendislik, TED University, 2023
Other, CTL: Zoom Atölyesi: Anket Oluşturmak ve Yoklama Almak, TED University, 2023
Other, CTL: Yenilenmiş TEDÜ Ortak Çekirdek Program Dersleri: Tasarımdan Uygulamaya, TED University, 2023
Other, CTL: Learner-Centered, Interdisciplinary Approach to Freshman Science Course, TED University, 2022
Other, CTL: Öğrenci Gelişim ve Danışma Merkezi Nasıl Çalışır?, TED University, 2022
Other, CTL: TEDÜ'de Asenkron Ders Deneyimimiz: İzlenimler ve Öneriler, TED University, 2022
Other, CTL: Self and Peer Assessment in Education, TED University, 2022
Other, CTL: Adult Education: From Theory to Practice, TED University, 2022
Other, CTL: Active Learning Practices in Higher Education Settings , TED University, 2022
Other, CTL: Etkileşimli Öğrenme: Pandemi Deneyimleri Üzerine Yansımalar, TED University, 2022
Other, CTL: Ders ve Sınav Dönemlerinde Engelli Öğrencilerin Hakları, TED University, 2022
Other, CTL: Fotoğrafi Okumak, TED University, 2022
Other, CTL: Açık ve Uzaktan Öğrenme: Nedir? Neredeyiz? Neler Yapabiliriz?, TED University, 2022

Dissertations

Doctorate, Transmission Power Control for Link Level Handshaking in Wireless Sensor Networks, TOBB University of Economics and Technology, Institute Of Science, 2016
Postgraduate, Communication/Computation Tradeoffs in Wireless Sensor Networks: Comparing Node-level and Network-level Strategies, TOBB University of Economics and Technology, Institute Of Science, 2013

Research Areas

Communication Engineering, Communication Networks, Communication System Theory, Wireless Communication, Electrical and Electronics Engineering, Simulation Optimization, Optimization

Academic Titles / Tasks

Associate Professor, TED University, Faculty Of Engineering, Dept.Of Electric&Electronics Engineering, 2021 - Continues
Assistant Professor, TED University, Faculty Of Engineering, Dept.Of Electric&Electronics Engineering, 2016 - 2021

Academic and Administrative Experience

Advisory Board Member, Cankaya University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, 2022 - Continues
Member of IT Commission, TED University, Faculty Of Engineering, 2021 - Continues
Fakülte Yönetim Kurulu Üyesi, TED University, Faculty Of Engineering, 2021 - Continues
Accreditation, Continuous Improvement, and Renewal Board Member, TED University, Faculty Of Engineering, Dept.Of Electric&Electronics Engineering, 2022 - 2024
Alumni Relations Commission Chairperson, TED University, Faculty Of Engineering, Dept.Of Electric&Electronics Engineering, 2022 - 2024
Head of Department, TED University, Faculty Of Engineering, Dept.Of Electric&Electronics Engineering, 2021 - 2024
Faculty Board Member, TED University, Faculty Of Engineering, 2021 - 2024

Courses

Communication Systems II, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Signals and Systems, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Probability and Random Processes, Undergraduate, 2021 - 2022

Summer Practice I, Undergraduate, 2022 - 2023, 2021 - 2022, 2018 - 2019, 2017 - 2018

Summer Practice II, Undergraduate, 2022 - 2023, 2021 - 2022

Senior Project II, Undergraduate, 2021 - 2022

Senior Project I, Undergraduate, 2022 - 2023, 2021 - 2022

Probability and Random Processes, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Summer Practice II, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Senior Project II, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Signals and Systems, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Senior Project I, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Summer Practice I, Undergraduate, 2020 - 2021, 2019 - 2020

Communication Systems II, Undergraduate, 2020 - 2021, 2019 - 2020

Communication Systems I, Undergraduate, 2017 - 2018, 2016 - 2017

Power System Analysis, Undergraduate, 2016 - 2017

Software Tools for Electrical Engineering, Undergraduate, 2016 - 2017

Advising Theses

Tavlı B., Yıldız H. U., Kablosuz Algılayıcı Ağlarda Ağ Yaşam Süresi ve k-Bağlılık Arasındaki İlişkinin Modellenmesi ve İrdelenmesi, Doctorate, M.Çobanlar(Student), 2022

Altın Kayhan A., Yıldız H. U., Number Of Depleted Nodes Based Network Lifetime Maximization In Underwater Wireless Sensor Networks, Postgraduate, C.Aydın(Student), 2021

Tavlı B., Yıldız H. U., Modeling The Tradeoff Between Eavesdropping And Network Lifetime Through A Mixed Integer Programming Approach In Underwater Acoustic Sensor Networks, Postgraduate, A.Özmen(Student), 2021

Tavlı B., Yıldız H. U., Eavesdropping Potential in Wireless Sensor Networks and Modeling and Analysis of Network Life Time Recovery, Postgraduate, Y.Karakurt(Student), 2018

Tavlı B., Yıldız H. U., Optimal Transmission Power Level Sets for Lifetime Maximization in Wireless Sensor Networks, Postgraduate, Ç.Tantur(Student), 2017

Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atılım Üniversitesi, December, 2023

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, TED Üniversitesi, October, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Orta Doğu Teknik Üniversitesi, July, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Ege Üniversitesi, June, 2023

Doctorate, Doctorate, TOBB Ekonomi Ve Teknoloji Üniversitesi, June, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, TOBB Ekonomi Ve Teknoloji Üniversitesi, May, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, TOBB Ekonomi Ve Teknoloji Üniversitesi, May, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atılım Üniversitesi, May, 2023
Doctoral Examination, Doctoral Examination, TOBB Ekonomi Ve Teknoloji Üniversitesi, January, 2023
Post Graduate, Post Graduate, Atılım Üniversitesi, January, 2023
Doctorate, Doctorate, TOBB Ekonomi Ve Teknoloji Üniversitesi, December, 2022
Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, TED Üniversitesi, December, 2022
Doctoral Examination, Doctoral Examination, Gazi Üniversitesi, October, 2022
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, TOBB Ekonomi Ve Teknoloji Üniversitesi, October, 2022
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, TOBB Ekonomi Ve Teknoloji Üniversitesi, September, 2022
Doctorate, Doctorate, TOBB Ekonomi Ve Teknoloji Üniversitesi, August, 2022
Post Graduate, Post Graduate, TOBB Ekonomi Ve Teknoloji Üniversitesi, August, 2022
Post Graduate, Post Graduate, TOBB Ekonomi Ve Teknoloji Üniversitesi, July, 2022
Post Graduate, Post Graduate, Gazi Üniversitesi, July, 2022
Post Graduate, Post Graduate, TOBB Ekonomi Ve Teknoloji Üniversitesi, July, 2022
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Orta Doğu Teknik Üniversitesi, June, 2022
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Ege Üniversitesi, June, 2022
Doctoral Examination, Doctoral Examination, Atılım Üniversitesi, May, 2022
Post Graduate, Post Graduate, TOBB Ekonomi Ve Teknoloji Üniversitesi, April, 2022
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, TOBB Ekonomi Ve Teknoloji Üniversitesi, March, 2022
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, TOBB Ekonomi Ve Teknoloji Üniversitesi, March, 2022
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, TOBB Ekonomi Ve Teknoloji Üniversitesi, March, 2022
Doctoral Examination, Doctoral Examination, TOBB Ekonomi Ve Teknoloji Üniversitesi, February, 2022
Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, TED Üniversitesi, February, 2022
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Orta Doğu Teknik Üniversitesi, February, 2022
Doctoral Examination, Doctoral Examination, TOBB Ekonomi Ve Teknoloji Üniversitesi, February, 2022
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, TOBB Ekonomi Ve Teknoloji Üniversitesi, December, 2021
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, TOBB Ekonomi Ve Teknoloji Üniversitesi, September, 2021
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, TOBB Ekonomi Ve Teknoloji Üniversitesi, August, 2021
Post Graduate, Post Graduate, TOBB Ekonomi Ve Teknoloji Üniversitesi, August, 2021
Post Graduate, Post Graduate, TOBB Ekonomi Ve Teknoloji Üniversitesi, August, 2021
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Orta Doğu Teknik Üniversitesi, July, 2021
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, TOBB Ekonomi Ve Teknoloji Üniversitesi, June, 2021
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, TOBB Ekonomi Ve Teknoloji Üniversitesi, June, 2021
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, TOBB Ekonomi Ve Teknoloji Üniversitesi, June, 2021
Post Graduate, Post Graduate, TOBB Ekonomi Ve Teknoloji Üniversitesi, April, 2021
Post Graduate, Post Graduate, TOBB Ekonomi Ve Teknoloji Üniversitesi, March, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, TOBB Ekonomi Ve Teknoloji Üniversitesi, February, 2021

Doctoral Examination, Doctoral Examination, TOBB Ekonomi Ve Teknoloji Üniversitesi, January, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Orta Doğu Teknik Üniversitesi, January, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, TOBB Ekonomi Ve Teknoloji Üniversitesi, December, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, TOBB Ekonomi Ve Teknoloji Üniversitesi, December, 2020

Post Graduate, Post Graduate, TOBB Ekonomi Ve Teknoloji Üniversitesi, December, 2020

Post Graduate, Post Graduate, TOBB Ekonomi Ve Teknoloji Üniversitesi, July, 2020

Doctoral Examination, Doctoral Examination, TOBB Ekonomi Ve Teknoloji Üniversitesi, July, 2020

Post Graduate, Post Graduate, TOBB Ekonomi Ve Teknoloji Üniversitesi, July, 2020

Post Graduate, Post Graduate, TOBB Ekonomi Ve Teknoloji Üniversitesi, July, 2020

Post Graduate, Post Graduate, TOBB Ekonomi Ve Teknoloji Üniversitesi, July, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, TOBB Ekonomi Ve Teknoloji Üniversitesi, May, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, TOBB Ekonomi Ve Teknoloji Üniversitesi, December, 2019

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, TOBB Ekonomi Ve Teknoloji Üniversitesi, November, 2019

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Orta Doğu Teknik Üniversitesi, June, 2019

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, TOBB Ekonomi Ve Teknoloji Üniversitesi, May, 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Exploring the tradeoff between energy dissipation, delay, and the number of backbones for broadcasting in wireless sensor networks through goal programming**
Gultekin B., Nurcan-Atceken D., Altin-Kayhan A., Yıldız H. U., Tavli B.
Ad Hoc Networks, vol.149, 2023 (SCI-Expanded)
- II. **Joint Effects of Void Region Size and Sink Architecture on Underwater WSNs Lifetime**
Yıldız H. U.
IEEE Sensors Journal, vol.23, no.10, pp.11046-11056, 2023 (SCI-Expanded)
- III. **On the Trade-off Between Network Lifetime and k-Connectivity Based Reliability in UWSNs**
Cobanlar M., Yıldız H. U., Akram V., Dağdeviren O., Tavli B.
IEEE Internet of Things Journal, vol.9, no.23, pp.24444-24452, 2022 (SCI-Expanded)
- IV. **Reliability of linear WSNs: A complementary overview and analysis of impact of cascaded failures on network lifetime**
Carsancaklı M. F., Imran M. A. A., Yıldız H. U., Kara A., Tavli B.
AD HOC NETWORKS, vol.131, 2022 (SCI-Expanded)
- V. **Node-Level Error Control Strategies for Prolonging the Lifetime of Wireless Sensor Networks**
TEKİN N., Yıldız H. U., GÜNGÖR V. Ç.
IEEE SENSORS JOURNAL, vol.21, no.13, pp.15386-15397, 2021 (SCI-Expanded)
- VI. **Comparative Analysis of Transmission Power Level and Packet Size Optimization Strategies for WSNs**
Yıldız H. U., Kurt S., Tavli B.
IEEE SYSTEMS JOURNAL, vol.13, no.3, pp.2264-2274, 2019 (SCI-Expanded)
- VII. **Neural network based instant parameter prediction for wireless sensor network optimization models**

Akbas A., Yıldız H. U., Ozbayoglu A. M., Tavli B.

WIRELESS NETWORKS, vol.25, no.6, pp.3405-3418, 2019 (SCI-Expanded)

- VIII. **Maximization of Underwater Sensor Networks Lifetime via Fountain Codes**
Yıldız H. U.
IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS, vol.15, no.8, pp.4602-4613, 2019 (SCI-Expanded)
- IX. **On the Lifetime of Compressive Sensing Based Energy Harvesting in Underwater Sensor Networks**
Erdem H. E., Yıldız H. U., GÜNGÖR V. Ç.
IEEE SENSORS JOURNAL, vol.19, no.12, pp.4680-4687, 2019 (SCI-Expanded)
- X. **Investigation of maximum lifetime and minimum delay trade-off in underwater sensor networks**
Yıldız H. U.
INTERNATIONAL JOURNAL OF COMMUNICATION SYSTEMS, vol.32, no.7, 2019 (SCI-Expanded)
- XI. **DASH-QoS: A scalable network layer service differentiation architecture for DASH over SDN**
Sayit M., Cetinkaya C., Yıldız H. U., Tavli B.
COMPUTER NETWORKS, vol.154, pp.12-25, 2019 (SCI-Expanded)
- XII. **Packet Size Optimization for Lifetime Maximization in Underwater Acoustic Sensor Networks**
Yıldız H. U., GÜNGÖR V. Ç., Tavli B.
IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS, vol.15, no.2, pp.719-729, 2019 (SCI-Expanded)
- XIII. **A survey on packet size optimization for terrestrial, underwater, underground, and body area sensor networks**
Yigit M., Yıldız H. U., Kurt S., Tavli B., Güngör V. Ç.
INTERNATIONAL JOURNAL OF COMMUNICATION SYSTEMS, vol.31, no.11, 2018 (SCI-Expanded)
- XIV. **The Impact of Incomplete Secure Connectivity on the Lifetime of Wireless Sensor Networks**
Yıldız H. U., Ciftler B. S., Tavli B., Bıçakçı K., Incebacak D.
IEEE SYSTEMS JOURNAL, vol.12, no.1, pp.1042-1046, 2018 (SCI-Expanded)
- XV. **The impact of transmission power levels set size on lifetime of wireless sensor networks in smart grids**
Yıldız H. U.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.26, no.6, pp.3057-3071, 2018 (SCI-Expanded)
- XVI. **The Impact of Incapacitation of Multiple Critical Sensor Nodes on Wireless Sensor Network Lifetime**
Yıldız H. U., Tavli B., Kahjogh B. O., Dogdu E.
IEEE WIRELESS COMMUNICATIONS LETTERS, vol.6, no.3, pp.306-309, 2017 (SCI-Expanded)
- XVII. **Packet Size Optimization in Wireless Sensor Networks for Smart Grid Applications**
Kurt S., Yıldız H. U., Yigit M., Tavli B., GÜNGÖR V. Ç.
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, vol.64, no.3, pp.2392-2401, 2017 (SCI-Expanded)
- XVIII. **Joint Optimization of Transmission Power Level and Packet Size for WSN Lifetime Maximization**
Akbas A., Yıldız H. U., Tavli B., Uludag S.
IEEE SENSORS JOURNAL, vol.16, no.12, pp.5084-5094, 2016 (SCI-Expanded)
- XIX. **Maximizing Wireless Sensor Network lifetime by communication/computation energy optimization of non-repudiation security service: Node level versus network level strategies**
Yıldız H. U., Bıçakçı K., Tavli B., Gultekin H., Incebacak D.
AD HOC NETWORKS, vol.37, pp.301-323, 2016 (SCI-Expanded)
- XX. **Transmission Power Control for Link-Level Handshaking in Wireless Sensor Networks**
Yıldız H. U., Tavli B., Yanikomeroglu H.
IEEE SENSORS JOURNAL, vol.16, no.2, pp.561-576, 2016 (SCI-Expanded)
- XXI. **Impact of Limiting Hop Count on the Lifetime of Wireless Sensor Networks**
Yıldız H. U., Temiz M., Tavli B.
IEEE COMMUNICATIONS LETTERS, vol.19, no.4, pp.569-572, 2015 (SCI-Expanded)
- XXII. **Role of Unidirectionality and Reverse Path Length on Wireless Sensor Network Lifetime**
Batmaz A. U., Yıldız H. U., Tavli B.
IEEE SENSORS JOURNAL, vol.14, no.11, 2014 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Impact of Critical Node Failures on Lifetime of UWSNs with Incomplete Secure Connectivity**
Un B. E., Yıldız H. U., Tavli B.
2021 IEEE International Black Sea Conference on Communications and Networking, BlackSeaCom 2021, Virtual, Bucharest, Romania, 24 - 28 May 2021
- II. **Impact of Minimizing the Eavesdropping Risks on Lifetime of Underwater Acoustic Sensor Networks**
Ozmen A., Yıldız H. U., Tavli B.
28th Telecommunications Forum (TELFOR), Belgrade, Serbia, 24 - 25 November 2020, pp.5-8
- III. **Prolonging the lifetime of underwater sensor networks under sinkhole attacks**
Yıldız H. U.
2019 International Conference on Underwater Networks and Systems, WUWNET 2019, Georgia, United States Of America, 23 - 25 October 2019
- IV. **Utilization of Multi-Sink Architectures for Lifetime Maximization in Underwater Sensor Networks**
Yıldız H. U.
2nd IEEE Middle East and North Africa COMMUNICATIONS Conference (IEEE MENACOMM), Manama, Bahrain, 19 - 21 November 2019, pp.123-127
- V. **Improvement of Underwater Acoustic Sensor Networks Performance with Fountain Codes**
Yıldız H. U.
27th Signal Processing and Communications Applications Conference (SIU), Sivas, Turkey, 24 - 26 April 2019
- VI. **Minimum delay and maximum lifetime trade-off in underwater sensor networks**
Yıldız H. U.
National Conference on Electrical, Electronics and Biomedical Engineering (ELECO), Bursa, Turkey, 30 November - 01 December 2018, pp.80-83
- VII. **A hybrid energy harvesting framework for energy efficiency in wireless sensor networks based smart grid applications**
Yıldız H. U., Güngör V. Ç., Tavli B.
17th Annual Mediterranean Ad Hoc Networking Workshop, Med-Hoc-Net 2018, Capri Island, Italy, 20 - 22 June 2018, pp.1-6
- VIII. **The Impact of Mitigation of Eavesdropping on Wireless Sensor Networks Lifetime**
Karakurt Y., Yıldız H. U., Tavli B.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- IX. **The Impact of Data Fragmentation on Network Lifetime in Underwater Acoustic Sensor Networks**
Yıldız H. U.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- X. **Assessment of Wireless Sensor Network Lifetime Reduction due to Elimination of Critical Node Sets**
Yıldız H. U., Tavli B., Kahjogh B. O.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XI. **Distributed Detection of Critical Nodes in Wireless Sensor Networks Using Connected Dominating Set**
Dağdeviren O., Akram V. K., Tavli B., Yıldız H. U., Atılğan C.
15th IEEE Sensors Conference, Florida, United States Of America, 30 October - 02 November 2016
- XII. **Optimal Transmission Power Level Sets for Lifetime Maximization in Wireless Sensor Networks**
Tantur C., Yıldız H. U., Kurt S., Tavli B.
15th IEEE Sensors Conference, Florida, United States Of America, 30 October - 02 November 2016
- XIII. **Prolonging Wireless Sensor Network Lifetime by Optimal Utilization of Compressive Sensing**
Yıldız H. U., Tavli B.
IEEE Globecom Workshops (GC Wkshps), California, United States Of America, 6 - 10 December 2015
- XIV. **The Impact of Near-Ground Path Loss Modeling on Wireless Sensor Network Lifetime**
Yıldız H. U., Kurt S., Tavli B.
33rd Annual IEEE Military Communications Conference on Affordable Mission Success - Meeting the Challenge

(MILCOM), Maryland, United States Of America, 6 - 08 October 2014, pp.1114-1119

XV. Communication/Computation Trade-offs in Wireless Sensor Networks: Comparing Network-Level and Node-Level Strategies

Yıldız H. U., Bıçakçı K., Tavli B.

IEEE Topical Conference on Wireless Sensors and Sensor Networks (WiSNet), California, United States Of America, 19 - 23 January 2014, pp.49-51

XVI. Data Packet Length Optimization for Wireless Sensor Network Lifetime Maximization

Akbas A., Yıldız H. U., Tavli B.

10th International Conference on Communications (COMM), Bucharest, Romania, 29 - 31 May 2014

XVII. The Impact of Random Power Assignment in Handshaking on Wireless Sensor Network Lifetime

Yıldız H. U., Tavli B.

IEEE Global Communications Conference (GLOBECOM), Texas, United States Of America, 8 - 12 December 2014, pp.201-206

Supported Projects

Girici T., Güngör P. V. Ç., YILDIZ H. U., Newton Programme Project, "UAV and D2D-Based Self Organized Network for Disaster Management Applications", Continues

YILDIZ H. U., Tavlı B., Güngör V. Ç., TUBITAK Project, Enerji Hasadı Yapabilen Kablosuz Su Altı Akustik Algılayıcı Ağlarında Sıkıştırılmış Algılama Tabanlı Haberleşme ve Mahremiyet Eniyilemesi, Continues

Activities in Scientific Journals

INTERNET OF THINGS, Special Issue Editor, 2023 - Continues

Memberships / Tasks in Scientific Organizations

IEEE, Associate Member, 2021 - Continues, United States Of America

The Chamber of Electrical Engineers (EMO) - Ankara Branch, Member, 2010 - Continues, Turkey

IEEE, Member, 2013 - 2021, United States Of America

Scientific Refereeing

IEEE INTERNET OF THINGS JOURNAL, SCI Journal, November 2023

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, TED University, Turkey, October 2023

2024 IEEE Wireless Communications and Networking Conference (WCNC): Track 1 – Physical Layer and Communication Theory (TPC Member), Conference Paper (Full Text), September 2023

International Conference on Underwater Networks & Systems (WUWNet - TPC Member), Conference Paper (Full Text), July 2023

IEEE TRANSACTIONS ON NETWORK AND SERVICE MANAGEMENT, SCI Journal, June 2023

IEEE ACCESS, SCI Journal, May 2023

IEEE INTERNET OF THINGS JOURNAL, SCI Journal, May 2023

The 31st IEEE Conference on Signal Processing and Communications Applications (TPC Member), Conference Paper (Full Text), April 2023

Balkancom 2023 (TPC Member), Conference Paper (Full Text), March 2023

TUBITAK Project, 1501 - Industry R & D Projects Support Program, TED University, Turkey, February 2023

IEEE TRANSACTIONS ON COMMUNICATIONS, SCI Journal, January 2023

TUBITAK Project, 1501 - Industry R & D Projects Support Program, TED University, Turkey, January 2023

TUBITAK Project, 1501 - Industry R & D Projects Support Program, TED University, Turkey, December 2022

TUBITAK Project, 1501 - Industry R & D Projects Support Program, TED University, Turkey, December 2022

TUBITAK Project, 1501 - Industry R & D Projects Support Program, TED University, Turkey, November 2022

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, TED University, Turkey, November 2022

AD HOC NETWORKS, SCI Journal, October 2022

IEEE WIRELESS COMMUNICATIONS AND NETWORKING CONFERENCE (WCNC 2023), Conference Paper (Full Text), October 2022

TUBITAK Project, 1501 - Industry R & D Projects Support Program, TED University, Turkey, October 2022

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, TED University, Turkey, October 2022

INTERNET OF THINGS, SCI Journal, September 2022

THE 16TH INTERNATIONAL CONFERENCE ON UNDERWATER NETWORKS & SYSTEMS (WUWNET'22), Conference Paper (Full Text), September 2022

IEEE SENSORS JOURNAL, SCI Journal, June 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, TED University, Turkey, June 2022

TUBITAK Project, 1501 - Industry R & D Projects Support Program, TED University, Turkey, May 2022

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, TED University, Turkey, May 2022

TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, TED University, Turkey, May 2022

TUBITAK Project, 1501 - Industry R & D Projects Support Program, TED University, Turkey, May 2022

IEEE WIRELESS COMMUNICATIONS LETTERS, SCI Journal, April 2022

IEEE TRANSACTIONS ON COMMUNICATIONS, SCI Journal, March 2022

SİNYAL İŞLEME VE İLETİŞİM UYGULAMALARI KURULTAYI (SIU), Conference Paper (Full Text), March 2022

TUBITAK Project, 1501 - Industry R & D Projects Support Program, TED University, Turkey, February 2022

TUBITAK Project, 1511 - TUBITAK Priority Fields Research Technology Development and Innovation PDP, TED University, Turkey, February 2022

TUBITAK Project, 1511 - TUBITAK Priority Fields Research Technology Development and Innovation PDP, TED University, Turkey, February 2022

IEEE INTERNET OF THINGS JOURNAL, SCI Journal, January 2022

IEEE WIRELESS COMMUNICATIONS AND NETWORKING CONFERENCE (WCNC 2022), Conference Paper (Full Text), October 2021

THE 15TH INTERNATIONAL CONFERENCE ON UNDERWATER NETWORKS & SYSTEMS (WUWNET'21), Conference Paper (Full Text), September 2021

IEEE TRANSACTIONS ON NETWORK AND SERVICE MANAGEMENT, SCI Journal, August 2021

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, TED University, Turkey, July 2021

IEEE WIRELESS COMMUNICATIONS LETTERS, SCI Journal, June 2021

IEEE SYSTEMS JOURNAL, SCI Journal, May 2021

IEEE ACCESS, SCI Journal, April 2021

IEEE TRANSACTIONS ON MOBILE COMPUTING, SCI Journal, April 2021

IEEE INTERNET OF THINGS JOURNAL, SCI Journal, March 2021

COMPUTER NETWORKS, SCI Journal, March 2021

IEEE Transactions on Green Communications and Networking, SCI Journal, March 2021

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, TED University, Turkey, March 2021

IEEE INTERNET OF THINGS JOURNAL, SCI Journal, August 2020

COMPUTER NETWORKS, National Scientific Refreed Journal, August 2020

IEEE WIRELESS COMMUNICATIONS AND NETWORKING CONFERENCE (WCNC'21), Conference Paper (Full Text), August 2020

IEEE INTERNATIONAL CONFERENCE ON COMMUNICATIONS (ICC'21), Conference Paper (Full Text), July 2020

IEEE ACCESS, SCI Journal, February 2020

AD HOC NETWORKS, SCI Journal, January 2020

IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, SCI Journal, January 2020
TUBITAK Project, 2204-A High School Students Research Projects Competition , TED University, Turkey, January 2020
IEEE INTERNET OF THINGS JOURNAL, SCI Journal, October 2019
SENSORS, SCI Journal, September 2019
IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, SCI Journal, August 2019
IEEE SENSORS JOURNAL, SCI Journal, July 2019
TUBITAK Project, 2204-A High School Students Research Projects Competition , TED University, Turkey, June 2019
TUBITAK Project, 2204-A High School Students Research Projects Competition , TED University, Turkey, June 2019
IEEE WIRELESS COMMUNICATIONS LETTERS, SCI Journal, March 2019
COMPUTER NETWORKS, SCI Journal, January 2019
IEEE ACCESS, SCI Journal, January 2019
IEEE SYSTEMS JOURNAL, SCI Journal, January 2019
AD HOC NETWORKS, SCI Journal, January 2019
TUBITAK Project, 2204-A High School Students Research Projects Competition , TED University, Turkey, January 2019
COMPUTER COMMUNICATIONS, SCI Journal, October 2018
COMPUTER NETWORKS, SCI Journal, September 2018
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, SCI Journal, May 2018
AD HOC NETWORKS, SCI Journal, April 2018
IEEE SYSTEMS JOURNAL, SCI Journal, April 2018
IEEE INTERNET OF THINGS JOURNAL, SCI Journal, February 2018
IEEE SENSORS JOURNAL, SCI Journal, February 2018
IEEE ACCESS, SCI Journal, January 2018
IEEE WIRELESS COMMUNICATIONS LETTERS, SCI Journal, September 2017
SENSORS, SCI Journal, July 2017
IEEE ACCESS, SCI Journal, July 2017
IEEE TRANSACTIONS ON MOBILE COMPUTING, SCI Journal, June 2017
IEEE TRANSACTIONS ON CYBERNETICS, SCI Journal, April 2017
IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS, SCI Journal, April 2017
IEEE COMMUNICATIONS LETTERS, SCI Journal, March 2017
IEEE INTERNET OF THINGS JOURNAL, SCI Journal, February 2017
AD HOC NETWORKS, SCI Journal, January 2017
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, SCI Journal, January 2017

Scientific Consultations

Turk Telekom, Project Consultancy, TED University, Faculty Of Engineering, Dept.Of Electric&Electronics Engineering, Turkey, 2022 - 2022

Tasks In Event Organizations

Yıldız H. U., International Balkan Conference on Communications and Networking (BalkanCom 2023), Scientific Congress, İstanbul, Turkey, Haziran 2023

Yıldız H. U., International Conference on Underwater Networks & Systems (WUWNet'22), Scientific Congress, Massachusetts, United States Of America, Kasım 2022

Yıldız H. U., IEEE International Conference on Communications (ICC 2022), Scientific Congress, Seoul, South Korea, Mayıs 2022

Yıldız H. U., IEEE Wireless Communications and Networking Conference (WCNC 2022), Scientific Congress, Texas, United States Of America, Nisan 2022

Yıldız H. U., International Conference on Underwater Networks & Systems (WUWNet'21), Scientific Congress, Shenzhen,

China, Kasım 2021

Yıldız H. U., International Conference on Network and Service Management (CNSM 2021), Scientific Congress, İzmir, Turkey, Ekim 2021

Yıldız H. U., International Conference on Innovation and Intelligence for Informatics, Computing, and Technologies (3ICT 2021) , Scientific Congress, Manama, Bahrain, Eylül 2021

Yıldız H. U., IEEE International Conference on Communications (ICC 2021), Scientific Congress, New Jersey, United States Of America, Haziran 2021

Yıldız H. U., IEEE Wireless Communications and Networking Conference (WCNC 2021), Scientific Congress, Nanjing, China, Nisan 2021

Yıldız H. U., International Conference on Network and Service Management (CNSM 2020), Scientific Congress, İzmir, Turkey, Kasım 2020

Yıldız H. U., IEEE International Conference on Communications (ICC 2020), Scientific Congress, New Jersey, United States Of America, Haziran 2020

Yıldız H. U., IEEE Middle East and North Africa Communications Conference (MENACOMM'19), Scientific Congress, Manama, Bahrain, Kasım 2019

Yıldız H. U., Elektrik Elektronik Mühendisliği Kongresi (EEMKON 2019) , Scientific Congress, Ankara, Turkey, Kasım 2019

Yıldız H. U., International Conference on Underwater Networks & Systems (WUWNet'19), Scientific Congress, Georgia, United States Of America, Ekim 2019

Yıldız H. U., International Conference on Innovation and Intelligence for Informatics, Computing, and Technologies (3ICT 2019), Scientific Congress, Manama, Bahrain, Eylül 2019

Yıldız H. U., IEEE International Conference on Communications (ICC 2019), Scientific Congress, Shanghai, China, Mayıs 2019

Yıldız H. U., IEEE Wireless Communications and Networking Conference (WCNC 2019), Scientific Congress, Marrakush, Morocco, Nisan 2019

Yıldız H. U., IEEE 87th Vehicular Technology Conference (VTC 2018-Spring), Scientific Congress, Porto, Portugal, Haziran 2018

Yıldız H. U., IEEE International Conference on Communications (ICC 2018), Scientific Congress, Colorado, United States Of America, Mayıs 2018

Yıldız H. U., IEEE International Workshop on Wireless Communications and Networking in Extreme Environments (IEEE WCNEE 2018 Workshop), Scientific Congress, Hawaii, United States Of America, Nisan 2018

Yıldız H. U., IEEE SENSORS 2017, Scientific Congress, Glasgow, England, Kasım 2017

Congress and Symposium Activities

2022-2026 TEDÜ Stratejik Plan Çalıştayı, Attendee, Ankara, Turkey, 2022

2021 IEEE International Black Sea Conference on Communications and Networking (BlackSeaCom 2021), Session Moderator, New Jersey, United States Of America, 2021

The 14th International Conference on Underwater Networks & Systems (WUWNet'19), Session Moderator, Georgia, United States Of America, 2019

27. Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SIU) / Yeni Nesil Haberleşme Teknikleri ve Uygulamaları (Özel Oturum), Invited Speaker, Sivas, Turkey, 2019

26th Signal Processing and Communications Applications Conference (SIU), Session Moderator, İzmir, Turkey, 2018
IEEE SENSORS 2016, Session Moderator, Florida, United States Of America, 2016

2014 IEEE Global Commun. Conference (GLOBECOM) Workshop on Management of Emerging Networks, Session Moderator, Texas, United States Of America, 2014

Awards

Yıldız H. U., IEEE Senior Member Elevation, Ieee, April 2021

Yıldız H. U., Best Paper Award (Third Place): IEEE MENACOMM'19, Ieee, November 2019