

## **Assoc. Prof. MEHMET KÖSEOĞLU**

### **Personal Information**

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### **International Researcher IDs**

ORCID: 0000-0002-5450-3266

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### **Education Information**

Doctorate, Ihsan Dogramaci Bilkent University, Fen Bilimleri Enstitüsü, Turkey 2007 - 2013

Postgraduate, Ihsan Dogramaci Bilkent University, Fen Bilimleri Enstitüsü, Turkey 2004 - 2007

Undergraduate, Ihsan Dogramaci Bilkent University, Elektrik Elektronik Mühendisliği Bölümü, Turkey 2000 - 2004

### **Foreign Languages**

English, C1 Advanced

### **Dissertations**

Doctorate, Performance analysis of the carrier-sense multiple access protocol for future generation wireless networks, Bilkent Üniversitesi, Fen Ve Mühendislik Bilimleri Enstitüsü, 2013

Postgraduate, Joint path and resource selection for obs grids with adaptive offset based qos mechanism, Bilkent Üniversitesi, Fen Ve Mühendislik Bilimleri Enstitüsü, 2007

### **Research Areas**

Computer Sciences, Computer Networks, Communications and Network Protocols, Engineering and Technology

### **Academic Titles / Tasks**

Assistant Professor, Hacettepe University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2018 - Continues

Assistant Professor, Hacettepe University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2015 - 2018

### **Published journal articles indexed by SCI, SSCI, and AHCI**

- I. **Deep reinforcement learning based flexible preamble allocation for RAN slicing in 5G networks**  
Gedikli A. M., KÖSEOĞLU M., Sen S.  
COMPUTER NETWORKS, vol.215, 2022 (SCI-Expanded)
- II. **Cross-Layer Energy Minimization for Underwater ALOHA Networks**  
KÖSEOĞLU M., KARAŞAN E., Chen L.

IEEE SYSTEMS JOURNAL, vol.11, no.2, pp.551-561, 2017 (SCI-Expanded)

- III. **Pricing-Based Load Control of M2M Traffic for the LTE-A Random Access Channel**  
KÖSEOĞLU M.  
IEEE TRANSACTIONS ON COMMUNICATIONS, vol.65, no.3, pp.1353-1365, 2017 (SCI-Expanded)
- IV. **Lower Bounds on the LTE-A Average Random Access Delay Under Massive M2M Arrivals**  
KÖSEOĞLU M.  
IEEE TRANSACTIONS ON COMMUNICATIONS, vol.64, no.5, pp.2104-2115, 2016 (SCI-Expanded)
- V. **Energy-Optimum Throughput and Carrier Sensing Rate in CSMA-Based Wireless Networks**  
Koseoglu M., Karasan E.  
IEEE TRANSACTIONS ON MOBILE COMPUTING, vol.13, no.6, pp.1200-1212, 2014 (SCI-Expanded)
- VI. **Spatio-Temporal Analysis of Throughput for Single-Hop CSMA Networks**  
Koseoglu M., Karasan E.  
IEEE COMMUNICATIONS LETTERS, vol.18, no.4, pp.564-567, 2014 (SCI-Expanded)
- VII. **Throughput Modeling of Single Hop CSMA Networks with Non-Negligible Propagation Delay**  
Koseoglu M., Karasan E.  
IEEE TRANSACTIONS ON COMMUNICATIONS, vol.61, no.7, pp.2911-2923, 2013 (SCI-Expanded)
- VIII. **Effect of network density and size on the short-term fairness performance of CSMA systems**  
Koseoglu M., Karasan E., Alanyali M.  
EURASIP JOURNAL ON WIRELESS COMMUNICATIONS AND NETWORKING, 2012 (SCI-Expanded)
- IX. **Joint resource and network scheduling with adaptive offset determination for optical burst switched grids**  
Koseoglu M., Karasan E.  
FUTURE GENERATION COMPUTER SYSTEMS-THE INTERNATIONAL JOURNAL OF ESCIENCE, vol.26, no.4, pp.576-589, 2010 (SCI-Expanded)

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **DEEP REINFORCEMENT LEARNING BASED ENERGY BEAMFORMING FOR POWERING SENSOR NETWORKS**  
Ozcelikkale A., KÖSEOĞLU M., Srivastava M., Ahlen A.  
IEEE 29th International Workshop on Machine Learning for Signal Processing (MLSP), Pennsylvania, United States Of America, 13 - 16 October 2019
- II. **Battery-Powered AUV Network Lifetime Under Energy Constraints**  
Bereketli A., Yazgi I., Yeni B., KÖSEOĞLU M.  
Oceans Aberdeen Conference, Aberdeen, United Kingdom, 19 - 22 June 2017
- III. **Connectivity Analysis of an AUV Network with OFDM Based Communications**  
Bereketli A., Tumcakir M., Yazgi I., Yeni B., KÖSEOĞLU M., DUMAN T. M.  
IEEE OES International Symposium on Underwater Technology (UT), Busan, South Korea, 21 - 24 February 2017
- IV. **Performance Analysis of Small Data Transmission Schemes for Cellular M2M Communications**  
KÖSEOĞLU M.  
16th Annual Mediterranean Ad Hoc Networking Workshop (Med-Hoc-Net), Budva, MONTENEGRO, 28 - 30 June 2017
- V. **Probabilistic Broadcast for Dense AUV Networks**  
KÖSEOĞLU M., Bereketli A., Yazgi I., Yeni B.  
MTS/IEEE Oceans Conference, Monterrey, Mexico, 19 - 23 September 2016
- VI. **Smart Pricing for Service Differentiation and Load Control of the LTE-A IoT System**  
KÖSEOĞLU M.  
2015 IEEE 2nd World Forum on Internet of Things (WF-IoT), Milan, Italy, 14 - 16 December 2015, pp.187-192

## Supported Projects

KÖSEOĞLU M., Project Supported by Higher Education Institutions, Dördüncü Nesil Haberleşme Standardının Nesnelerin İnterneti İçin İyileştirilmesi, 2015 - 2021

KÖSEOĞLU M., BERKETLİ A., YAZGI İ., YENİ B., Project Supported by Higher Education Institutions, Yoğun AUV Ağları için Olasılıksal Yayın, 2016 - 2017

KÖSEOĞLU M., Project Supported by Higher Education Institutions, LTE A Nesnelerin İnterneti Sisteminde Servis Ayrışması ve Yük Kontrolü için Akıllı Fiyatlama, 2015 - 2016

## Metrics

Publication: 15

Citation (WoS): 62

Citation (Scopus): 43

H-Index (WoS): 4

H-Index (Scopus): 2