

Mehmet Koseoglu

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EDUCATION	Ph.D. , Electrical and Electronics Engineering, Bilkent University, 2013	
	M.S. , Electrical and Electronics Engineering, Bilkent University, 2007	
	B.S. , Electrical and Electronics Engineering, Bilkent University, 2004	
ACADEMIC APPOINTMENTS	Assistant Professor , Hacettepe University, Turkey	2015-present
	Department of Computer Engineering	
	Postdoctoral Researcher , UCLA, USA	2017 to 2018
	Department of Electrical and Computer Engineering	
	Postdoctoral Researcher , Bilkent University, Turkey	2013 to 2014
	Department of Electrical and Electronics Engineering	
	Research Assistant , Bilkent University, Turkey	2006 to 2013
	Department of Electrical and Electronics Engineering	
INDUSTRY EXPERIENCE	Aselsan Inc. , Ankara, Turkey	
	<i>Software Engineer</i>	2004 to 2006
REFEREED JOURNAL PUBLICATIONS	A. M. Gedikli, M. Koseoglu, S. Sen. Deep Reinforcement Learning Based Flexible Preamble Allocation for RAN Slicing in 5G Networks. <i>in submission</i>	
	M. Koseoglu, E. Karasan and L. Chen. Cross-layer Energy Minimization for Underwater ALOHA Networks. <i>IEEE Systems Journal</i> . 11(2): 551-561. 2017.	
	M. Koseoglu. Pricing-based Load Control of M2M Traffic for the LTE-A Random Access Channel. <i>IEEE Transactions on Communications</i> . 65(3): 1353-1365. 2017.	
	M. Koseoglu. Lower Bounds on the LTE-A Average Random Access Delay under Massive M2M Arrivals. <i>IEEE Transactions on Communications</i> . 64(5): 2104-2115. 2016.	
	M. Koseoglu and E. Karasan. Energy-optimum Carrier Sensing Rate and Throughput in CSMA-based Wireless Networks. <i>IEEE Transactions on Mobile Computing</i> . 13(6): 1200-1212. 2014.	
	M. Koseoglu and E. Karasan. Spatio-Temporal Analysis of Throughput for Single-Hop CSMA Networks. <i>IEEE Communications Letters</i> . 18(4): 564–567. 2014.	

- M. Koseoglu and E. Karasan. Throughput Modeling of Single Hop CSMA Networks with Non-Negligible Propagation Delay. *IEEE Transactions on Communications*. 61(7):2911–2923. 2013.
- M. Koseoglu, E. Karasan and M. Alanyali. Effect of network density and size on the short-term fairness performance of CSMA systems. *EURASIP Journal on Wireless Communications and Networking*. 2012(1):367. 2012.
- M. Koseoglu and E. Karasan. Joint resource and network scheduling with adaptive offset determination for optical burst switched grids. *Future Generation Computer Systems*. 26(4):576–589. 2010.
- CONFERENCE PUBLICATIONS M. Findik, S. Yilmaz and M. Koseoglu. Random Forest Classification of Finger Movements Using Electromyogram (EMG) Signals In: *IEEE Sensors*, 2020
- M. Koseoglu and A. Ozcelikkale. How to miss data? Reinforcement learning for environments with high observation cost In: *ICML Workshop on The Art of Learning with Missing Values*, 2020.
- B. Ho, B. Balaji, M. Koseoglu, S. Sandha, S. Pei and M. Srivastava. Quick Question: Interrupting Users for Microtasks with Reinforcement Learning In: *ICML Workshop on Human in the Loop Learning*, 2020.
- A. Özcelikkale, M.Koseoglu, M. Srivastava and A. Ahlén. Deep reinforcement learning based energy beamforming for powering sensor networks In: *IEEE International Workshop on Machine Learning for Signal Processing*, Pittsburg, PA, 2019
- B. Ho, M. Koseoglu, B. Balaji, and M. Srivastava. Nurture: Notifying Users at the Right Time Using Reinforcement Learning In: *UbiTention 2018: 3rd International Workshop on Smart & Ambient Notification and Attention Management*, Singapore, 2018.
- A. Ozcelikkale, M. Koseoglu, M. Srivastava. Optimization vs. Reinforcement Learning for Wirelessly Powered Sensor Networks In: *IEEE 19th International Workshop on Signal Processing Advances in Wireless Communications (SPAWC)*, Kalamata, Greece, 2018
- M. Koseoglu. Performance Analysis of Small Data Transmission Schemes for Cellular M2M Communications In: *16th Annual Mediterranean Ad Hoc Networking Workshop (MED-HOC-NET)*, Budva, Montenegro, 2017.
- A. Bereketli, I. Yazgi, B. Yeni and M. Koseoglu. Battery-Powered AUV Network Lifetime Under Energy Constraints In: *IEEE/MTS OCEANS*, Aberdeen, Scotland, 2017.
- A. Bereketli, M. Tumcakil, I. Yazgi, B. Yeni, M. Koseoglu and T. M. Duman. Connectivity Analysis of an AUV Network with OFDM Based Communications In: *IEEE OES International Symposium on Underwater Technology (UT)*, Busan, South Korea, 2017.
- M. Koseoglu, A. Bereketli, I. Yazgi and B. Yeni. Probabilistic Broadcast for Dense AUV Networks In: *IEEE/MTS OCEANS*, Monterey, CA, September, 2016

	<p>M. Koseoglu. Smart Pricing for Service Differentiation and Load Control of the LTE-A IoT System In: <i>IEEE World Forum on Internet of Things</i>, Milan, Italy, December, 2015.</p> <p>M. Koseoglu and E. Karasan. Joint Path and Resource Selection for OBS Grids with Adaptive Offset Based QoS Mechanism. In: <i>Proceedings of the First International Conference on Networks for Grid Applications</i>, Lyon, France, October, 2007.</p>
GRANTS	<ul style="list-style-type: none"> • Principal Investigator: Improving the Energy Efficiency of the Random Access Procedure of the LTE-Advanced Standard for Machine-to-Machine Communications. Funded by TUBITAK (Scientific and Technological Research Council of Turkey). July 2015 - July 2017
AWARDS	<ul style="list-style-type: none"> • Fulbright Postdoctoral Research Grant, 2017. • Google IoT Technology Research Award, 2016. • Best presentation award, Communications/Networks Area, Graduate Research Conference, Department of Electrical and Electronics Engineering, Bilkent University, 2013. • Best poster award, Graduate Research Conference, Department of Electrical and Electronics Engineering, Bilkent University, 2006. • Full fellowship for graduate study, Bilkent University, 2006–2013. • Full fellowship for undergraduate study, Bilkent University, 2000–2004. • Turkiye Is Bankasi Anniversary Award for outstanding performance in the national university entrance exam, 2000. • 3rd place in the nation-wide university entrance examination among a million students, 2000.
THESES	<p>M. Koseoglu. <i>Performance Analysis of the CSMA Protocol for Future Generation Wireless Networks</i>. Ph.D. thesis, Bilkent University, 2013.</p> <p>M. Koseoglu. <i>Joint Path and Resource Selection for OBS Grids with Adaptive Offset Based QoS Mechanism</i>. M.Sc. thesis, Bilkent University, 2007.</p>
SEMINARS	<p>Smart Pricing for Service Differentiation and Load Control of the LTE-A IoT System, Chalmers University, Goteburg, Sweden, October 2015.</p> <p>Cross-layer Performance Optimization of Adaptive Modulation and Coding for CSMA Networks, Newcom# Dissemination Event, Lisbon, Portugal, February 2014.</p> <p>Congestion-Based Resource Selection and Path Switching for Consumer Grids over OBS, e-Photon/ONe+ Summer School, Zagreb, Croatia, September 2006.</p>
TEACHING EXPERIENCE	<p>Hacettepe University, Ankara, Turkey</p> <p><i>Instructor</i> 2015 - present</p> <ul style="list-style-type: none"> • Computer Architecture (2016-2017 Spring) • Digital Logic Design & Laboratory (2016-2017 Fall) • Computer Networks & Laboratory (2014-2015 Fall, 2015-2016 Fall) • Embedded Systems & Laboratory (2014-2015 Fall, 2015-2016 Spring, 2016-2017 Spring)

- Computer Networks - Grad. Level (2015-2016 Spring, 2016-2017 Fall)
- Systems Programming (2015-2016 Fall)
- Mobile Computing (2014-2015 Fall)
- Data Communications (2013-2014 Spring)

Bilkent University, Ankara, Turkey

Teaching Assistant

2006-2013

- Ranked “excellent” for 6 semesters by the graduate scholarship committee as a teaching assistant.

RESEARCH
EXPERIENCE

Hacettepe University, Ankara, Turkey

Principal Investigator

2015-present

- Funding: The Scientific and Technological Research Council of Turkey

University of California Los Angeles, Ankara, Turkey

Postdoctoral Researcher

2017-2018

- Funding: Fulbright Postdoctoral Research Grant

Bilkent University, Ankara, Turkey

Postdoctoral Researcher

2013-2014

- Funding: 7th European Community Framework Programme for Research and Technological Development (FP7) Project Newcom#

Research Assistant

2007-2013

- Funding: The Scientific and Technological Research Council of Turkey

Research Assistant

2006-2007

- Funding: 6th European Community Framework Programme for Research and Technological Development (FP6)

Boston University, Boston, MA, USA

Visiting Researcher

Summer 2010

- Hosted by [Murat Alanyali](#).

PROFESSIONAL
SERVICE

Technical Program Committee Membership

- *IEEE BlackSeaCom 2018*
- *IEEE GLOBECOM 2015, Wireless Networking Symposium*

Referee for the following journals

- *IEEE Communications Magazine*
- *IEEE Transactions on Wireless Communications*
- *IEEE Transactions on Communications*
- *IEEE Transactions on Vehicular Technology*
- *IEEE Communications Letters*
- *IEEE Wireless Communications Letters*
- *Eurasip Journal on Communications and Networking*
- *International Journal of Distributed Sensor Networks*
- *Optical Switching and Networking*
- *Turkish Journal of Electrical Engineering and Computer Sciences*

Referee for the following conferences

- *IEEE CCNC*
- *IEEE ICC*
- *IEEE ISCC*
- *IEEE GLOBECOM*