

Dr. Öğr. Üyesi EREN BALEVİ

Kişisel Bilgiler

E-posta: ebalevi@metu.edu.tr

Web: <https://avesis.metu.edu.tr/ebalevi>

Uluslararası Araştırmacı ID'leri

ScholarID: Iv_BWfkAAAAJ

ORCID: 0000-0002-2097-051X

Publons / Web Of Science ResearcherID: ACF-5198-2022

ScopusID: 50123456789

Yoksis Araştırmacı ID: 358626

Araştırma Alanları

Elektrik-Elektronik Mühendisliği

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Unfolded Hybrid Beamforming With GAN Compressed Ultra-Low Feedback Overhead**
Balevi E., Andrews J. G.
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, cilt.20, sa.12, ss.8381-8392, 2021 (SCI-Expanded)
- II. **Wideband Channel Estimation With a Generative Adversarial Network**
Balevi E., Andrews J. G.
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, cilt.20, sa.5, ss.3049-3060, 2021 (SCI-Expanded)
- III. **High Dimensional Channel Estimation Using Deep Generative Networks**
Balevi E., Doshi A., Jalal A., Dimakis A., Andrews J. G.
IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, cilt.39, sa.1, ss.18-30, 2021 (SCI-Expanded)
- IV. **Autoencoder-Based Error Correction Coding for One-Bit Quantization**
Balevi E., Andrews J. G.
IEEE TRANSACTIONS ON COMMUNICATIONS, cilt.68, sa.6, ss.3440-3451, 2020 (SCI-Expanded)
- V. **Massive MIMO Channel Estimation With an Untrained Deep Neural Network**
Balevi E., Doshi A., Andrews J. G.
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, cilt.19, sa.3, ss.2079-2090, 2020 (SCI-Expanded)
- VI. **Online Antenna Tuning in Heterogeneous Cellular Networks With Deep Reinforcement Learning**
Balevi E., Andrews J. G.
IEEE TRANSACTIONS ON COGNITIVE COMMUNICATIONS AND NETWORKING, cilt.5, sa.4, ss.1113-1124, 2019 (SCI-Expanded)
- VII. **One-Bit OFDM Receivers via Deep Learning**
Balevi E., Andrews J. G.
IEEE TRANSACTIONS ON COMMUNICATIONS, cilt.67, sa.6, ss.4326-4336, 2019 (SCI-Expanded)
- VIII. **An Inherent Fog Network: Brain-Spinal Cord-Nerve Networks**
Balevi E., Gitlin R. D.
IEEE ACCESS, cilt.6, ss.9272-9280, 2018 (SCI-Expanded)
- IX. **Optimizing the Number of Fog Nodes for Cloud-Fog-Thing Networks**
Balevi E., Gitlin R. D.

- IEEE ACCESS, cilt.6, ss.11173-11183, 2018 (SCI-Expanded)
- X. **Interference mitigation in multiuser communication by faster than symbol rate sampling**
Balevi E., YILMAZ A. Ö.
PHYSICAL COMMUNICATION, cilt.25, ss.148-157, 2017 (SCI-Expanded)
- XI. **Analysis of Frequency Domain Oversampled MMSE SC-FDE**
Balevi E., YILMAZ A. Ö.
IEEE COMMUNICATIONS LETTERS, cilt.20, sa.2, ss.232-235, 2016 (SCI-Expanded)
- XII. **A Physical Channel Model for Nanoscale Neuro-Spike Communications**
Balevi E., Akan O. B.
IEEE TRANSACTIONS ON COMMUNICATIONS, cilt.61, sa.3, ss.1178-1187, 2013 (SCI-Expanded)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **High Rate Communication over One-Bit Quantized Channels via Deep Learning and LDPC Codes**
Balevi E., Andrews J. G.
21st IEEE International Workshop on Signal Processing Advances in Wireless Communications, SPAWC 2020, Georgia, Amerika Birleşik Devletleri, 26 - 29 Mayıs 2020, cilt.2020-May
- II. **Compressed Representation of High Dimensional Channels using Deep Generative Networks**
Doshi A., Balevi E., Andrews J. G.
21st IEEE International Workshop on Signal Processing Advances in Wireless Communications, SPAWC 2020, Georgia, Amerika Birleşik Devletleri, 26 - 29 Mayıs 2020, cilt.2020-May
- III. **Spatial Indexing for System-Level Evaluation of 5G Heterogeneous Cellular Networks**
Amiri R., Balevi E., Andrews J. G., Mehrpouyan H.
92nd IEEE Vehicular Technology Conference (IEEE VTC-Fall), ELECTR NETWORK, 4 - 07 Ekim 2020
- IV. **Deep learning-based encoder for one-bit quantization**
Balevi E., Andrews J. G.
2019 IEEE Global Communications Conference, GLOBECOM 2019, Hawaii, Amerika Birleşik Devletleri, 9 - 13 Aralık 2019
- V. **A novel deep reinforcement learning algorithm for online antenna tuning**
Balevi E., Andrews J. G.
2019 IEEE Global Communications Conference, GLOBECOM 2019, Hawaii, Amerika Birleşik Devletleri, 9 - 13 Aralık 2019
- VI. **Synergies between cloud-fog-thing and brain-spinal cord-nerve networks**
Balevi E., Gitlin R. D.
2018 Information Theory and Applications Workshop, ITA 2018, California, Amerika Birleşik Devletleri, 11 - 16 Şubat 2018
- VII. **A clustering algorithm that maximizes throughput in 5G heterogeneous F-RAN networks**
Balevi E., Gitlin R. D.
2018 IEEE International Conference on Communications, ICC 2018, Missouri, Amerika Birleşik Devletleri, 20 - 24 Mayıs 2018, cilt.2018-May
- VIII. **ALOHA-NOMA for Massive Machine-to-Machine IoT Communication**
Balevi E., Rabee F. T. A., Gitlin R. D.
2018 IEEE International Conference on Communications, ICC 2018, Missouri, Amerika Birleşik Devletleri, 20 - 24 Mayıs 2018, cilt.2018-May
- IX. **Enhanced Diversity and Network Coded 5G Wireless Fog-Based-Fronthaul Networks**
Suliman N. I., Balevi E., Gitlin R. D.
88th IEEE Vehicular Technology Conference, VTC-Fall 2018, Illinois, Amerika Birleşik Devletleri, 27 - 30 Ağustos 2018, cilt.2018-August
- X. **Multiuser Diversity Gain in Uplink NOMA**
Balevi E.

88th IEEE Vehicular Technology Conference, VTC-Fall 2018, Illinois, Amerika Birleşik Devletleri, 27 - 30 Ağustos 2018, cilt.2018-August

- XI. **Stochastic geometry analysis of IEEE 802.15.6 UWB WBAN performance with game theoretical power management**
Balevi E., Gitlin R. D.
19th IEEE Wireless and Microwave Technology Conference, WAMICON 2018, Florida, Amerika Birleşik Devletleri, 9 - 10 Nisan 2018, ss.1-5
- XII. **Near-instant link failure recovery in 5G wireless fog-based-fronthaul networks**
Sulieman N. I., Balevi E., Gitlin R. D.
17th Annual Wireless Telecommunications Symposium, WTS 2018, Arizona, Amerika Birleşik Devletleri, 18 - 20 Nisan 2018, cilt.2018-April, ss.1-6
- XIII. **Enabling slotted Aloha-NOMA for massive M2M communication in IoT networks**
Elkourdi M., Mazin A., Balevi E., Gitlin R. D.
19th IEEE Wireless and Microwave Technology Conference, WAMICON 2018, Florida, Amerika Birleşik Devletleri, 9 - 10 Nisan 2018, ss.1-4
- XIV. **Pareto optimization for uplink NOMA power control**
Balevi E., Gitlin R. D.
17th Annual Wireless Telecommunications Symposium, WTS 2018, Arizona, Amerika Birleşik Devletleri, 18 - 20 Nisan 2018, cilt.2018-April, ss.1-5
- XV. **Reliable and resilient coordinated multi point fronthaul networks**
Sulieman N. I., Balevi E., Gitlin R. D.
19th IEEE Wireless and Microwave Technology Conference, WAMICON 2018, Florida, Amerika Birleşik Devletleri, 9 - 10 Nisan 2018, ss.1-4
- XVI. **Unsupervised machine learning in 5G networks for low latency communications**
Balevi E., Gitlin R. D.
36th IEEE International Performance Computing and Communications Conference, IPCCC 2017, California, Amerika Birleşik Devletleri, 10 - 12 Aralık 2017, cilt.2018-January, ss.1-2
- XVII. **Reliable Low Resolution 01-4DM Receivers via Deep Learning**
Balevi E., Andrews J. G.
52nd Asilomar Conference on Signals, Systems, and Computers, California, Amerika Birleşik Devletleri, 28 Ekim - 01 Kasım 2018, ss.697-701
- XVIII. **A Random Access Scheme for Large Scale 5G/IoT Applications**
Balevi E., Gitlin R. D.
IEEE 5G World Forum (5GWF), Santa-Clara, Küba, 9 - 11 Temmuz 2018, ss.452-456
- XIX. **Quantifying The Improvement of MMSE Equalizers by Faster Sampling Rates**
Balevi E., YILMAZ A. Ö.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Türkiye, 15 - 18 Mayıs 2017
- XX. **A Novel Practical CP Based Mismatched MMSE Equalization**
Balevi E., YILMAZ A. Ö.
IEEE Wireless Communications and Networking Conference (WCNC), San-Francisco, Kostarika, 19 - 22 Mart 2017
- XXI. **Diversity and Network Coded 5G Fronthaul Wireless Networks for Ultra Reliable and Low Latency Communications**
Sulieman N. I., Balevi E., Davaslioglu K., Gitlin R. D.
28th Annual IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC), Montreal, Kanada, 8 - 13 Ekim 2017

Bilimsel Hakemlikler

IEEE TRANSACTIONS ON COMMUNICATIONS, SCI Kapsamındaki Dergi, Aralık 2020

Metrikler

Yayın: 33

Atıf (WoS): 304

Atıf (Scopus): 523

H-İndeks (WoS): 8

H-İndeks (Scopus): 12