

## Dr. Öğr. Üyesi ELİF TUĞÇE CERAN ARSLAN

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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Publons / Web Of Science ResearcherID: AAP-2454-2021

ScopusID: 56534191200

Yoksis Araştırmacı ID: 197805

### Araştırma Alanları

Mühendislik ve Teknoloji

### Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik ve Elektronik Mühendisliği Bölümü, 2021 - Devam Ediyor

### Verdiği Dersler

Introduction to Electrical and Electronic Engineering, Lisans, 2022 - 2023

Engineering Design, Lisans, 2022 - 2023

Signals and Systems, Lisans, 2021 - 2022

Probability and Random Variables, Lisans, 2020 - 2021

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

- Unbiased federated learning in energy harvesting error-prone channels**  
ÇAKIR Z., CERAN E. T.  
Turkish Journal of Electrical Engineering and Computer Sciences, cilt.31, sa.3, ss.612-625, 2023 (SCI-Expanded)
- Reinforcement Learning Based Adaptive Blocklength and MCS for Optimizing Age Violation Probability**  
Ozkaya A., Topbas A., Ceran Arslan E. T.  
IEEE Access, cilt.11, ss.122411-122425, 2023 (SCI-Expanded)
- Implementation and Evaluation of Age-Aware Downlink Scheduling Policies in Push-Based and Pull-Based Communication**  
Oğuz T. K., Ceran Arslan E. T., Uysal E., Girici T.  
Entropy, cilt.24, sa.5, 2022 (SCI-Expanded)
- A Reinforcement Learning Approach to Age of Information in Multi-User Networks With HARQ**

- Ceran E. T., Gunduz D., Gyorgy A.  
IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, cilt.39, sa.5, ss.1412-1426, 2021 (SCI-Expanded)
- V. **Average Age of Information With Hybrid ARQ Under a Resource Constraint**  
Ceran E. T., Gunduz D., Gyorgy A.  
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, cilt.18, sa.3, ss.1900-1913, 2019 (SCI-Expanded)
- VI. **Optimal energy allocation policies for a high altitude flying wireless access point**  
Ceran E. T., Erkilic T., UYSAL BIYIKOĞLU E., GİRİCİ T., Leblebicioglu K.  
TRANSACTIONS ON EMERGING TELECOMMUNICATIONS TECHNOLOGIES, cilt.28, sa.4, 2017 (SCI-Expanded)
- VII. **Energy Packet Networks With Energy Harvesting**  
Gelenbe E., Ceran E. T.  
IEEE ACCESS, cilt.4, ss.1321-1331, 2016 (SCI-Expanded)

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Ensuring a Semantically Effective IoT Network Through Blockchain with Delayed Feedback**  
Gencay O., Balci A., CERAN ARSLAN E. T., UYSAL E.  
2024 International Conference on Computing, Networking and Communications, ICNC 2024, Hawaii, Amerika Birleşik Devletleri, 19 - 22 Şubat 2024, ss.88-92
- II. **Deep Reinforcement Learning Aided Rate-Splitting for Interference Channels**  
Irkicatal O. N., YÜKSEL TURGUT A. M., CERAN ARSLAN E. T.  
IEEE Conference on Global Communications (IEEE GLOBECOM) - Intelligent Communications for Shared Prosperity, Kuala-Lumpur, Malezya, 4 - 08 Aralık 2023, ss.3735-3740
- III. **Optimization of AoI and QoI in Multi-User Links**  
Ayik M., CERAN ARSLAN E. T., Uysal E.  
2023 IEEE INFOCOM Conference on Computer Communications Workshops, INFOCOM WKSHPS 2023, New Jersey, Amerika Birleşik Devletleri, 20 Mayıs 2023
- IV. **Kısa Paket İletimlerinde Adaptif Blok Uzunluğu Seçimi ile Bilgi Yaşı İhlali Olasılığının Azaltılması**  
Ozkaya A., Ceran Arslan E. T.  
2022 30th Signal Processing and Communications Applications Conference (SIU), Karabük, Türkiye, 15 - 18 Mayıs 2022, ss.1-4
- V. **Kanal ve Enerji Duyarlı Çizelgeleme ile Federe Öğrenme**  
Cakir Z., Ceran Arslan E. T.  
2022 30th Signal Processing and Communications Applications Conference (SIU), Karabük, Türkiye, 15 - 18 Mayıs 2022, ss.1-4
- VI. **When to Pull Data for Minimum Age Penalty**  
Yavascan O. T., CERAN ARSLAN E. T., Cakir Z., UYSAL E., Kaya O.  
19th International Symposium on Modeling and Optimization in Mobile, Ad hoc, and Wireless Networks, WiOpt 2021, Pennsylvania, Amerika Birleşik Devletleri, 18 - 21 Ekim 2021
- VII. **Reinforcement Learning to Minimize Age of Information with an Energy Harvesting Sensor with HARQ and Sensing Cost**  
Ceran E. T., Gunduz D., Gyorgy A.  
IEEE Conference on Computer Communications (IEEE INFOCOM), Paris, Fransa, 29 Nisan - 02 Mayıs 2019, ss.656-661
- VIII. **A Reinforcement Learning Approach to Age of Information in Multi-User Networks**  
Ceran E. T., Gunduz D., Gyorgy A.  
29th IEEE Annual International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), Bologna, İtalya, 9 - 12 Eylül 2018, ss.1967-1971
- IX. **Average Age of Information with Hybrid ARQ under a Resource Constraint**  
Ceran E. T., Gunduz D., Gyorgy A.  
IEEE Wireless Communications and Networking Conference (WCNC), Barcelona, İspanya, 15 - 18 Nisan 2018

- X. **Energy packet model optimisation with approximate matrix inversion**  
Ceran E. T., Gelenbe E.  
2nd International Workshop on Energy-Aware Simulation, ENERGY-SIM 2016, Waterloo, Kanada, 21 - 24 Haziran 2016
- XI. **Central or Distributed Energy Storage for Processors with Energy Harvesting**  
Gelenbe E., Ceran E. T.  
2015 Sustainable Internet and ICT for Sustainability (SustainIT), Madrid, İspanya, 14 - 15 Nisan 2015
- XII. **Age of Information under Energy Replenishment Constraints**  
BACINOĞLU B. T., Ceran E. T., UYSAL BIYIKOĞLU E.  
Information Theory and Applications Workshop (ITA), California, Amerika Birleşik Devletleri, 1 - 06 Şubat 2015, ss.25-31
- XIII. **Optimizing The Service Policy Of A Wireless Access Point On The Move With Renewable Energy**  
Ceran E. T., Erkilic T., Uysal-Biyikoglu E., Girici T., Leblebicioglu K.  
52nd Annual Allerton Conference on Communication, Control, and Computing Allerton, Illinois, Amerika Birleşik Devletleri, 1 - 03 Ekim 2014, ss.967-974

## **Metrikler**

Yayın: 21

Atıf (WoS): 505

Atıf (Scopus): 648

H-İndeks (WoS): 9

H-İndeks (Scopus): 9