

## Arş.Gör. Tuğçe Bilen

### Kişisel Bilgiler

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### Eğitim Bilgileri

Doktora, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği, Türkiye 2017 - Devam Ediyor

Yüksek Lisans, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği, Türkiye 2016 - 2017

Lisans, İstanbul Teknik Üniversitesi, Bilgisayar Ve Bilişim, Bilgisayar Mühendisliği, Türkiye 2010 - 2015

### Akademik Unvanlar / Görevler

Araştırma Görevlisi, İstanbul Teknik Üniversitesi, Bilgisayar ve Bilişim, Bilgisayar Mühendisliği, 2018 - Devam Ediyor

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

- I. **Q-Learning Driven Routing for Aeronautical Ad-Hoc Networks**  
Bilen T., Canberk B.  
PERVASIVE AND MOBILE COMPUTING, cilt.87, 2022 (SCI-Expanded)
- II. **AI-Driven Aeronautical Ad Hoc Networks for 6G Wireless: Challenges, Opportunities, and the Road Ahead**  
Bilen T., Canberk B., Sharma V., Fahim M., Duong T. Q.  
SENSORS, cilt.22, sa.10, 2022 (SCI-Expanded)
- III. **Aeronautical Networks for In-Flight Connectivity: A Tutorial of the State-of-the-Art and Survey of Research Challenges**  
Bilen T., Ahmadi H., Canberk B., Duong T. Q.  
IEEE ACCESS, cilt.10, ss.20053-20079, 2022 (SCI-Expanded)
- IV. **Three-phased clustered topology formation for Aeronautical Ad-Hoc Networks**  
Bilen T., Canberk B.  
PERVASIVE AND MOBILE COMPUTING, cilt.79, 2022 (SCI-Expanded)
- V. **Learning-Vector-Quantization-Based Topology Sustainability for Clustered-AANETs**  
Bilen T., Canberk B.  
IEEE NETWORK, cilt.35, sa.4, ss.120-128, 2021 (SCI-Expanded)
- VI. **Overcoming 5G ultra-density with game theory: Alpha-beta pruning aided conflict detection**  
Bilen T., Canberk B.  
PERVASIVE AND MOBILE COMPUTING, cilt.63, 2020 (SCI-Expanded)
- VII. **Deliver the content over multiple surrogates: A request routing model for high bandwidth requests**  
Bilen T., Canberk B.  
COMPUTER COMMUNICATIONS, cilt.146, ss.39-47, 2019 (SCI-Expanded)

## VIII. QoS-based distributed flow management in software defined ultra-dense networks

BILEN T., AYVAZ K., Canberk B.

Ad Hoc Networks, cilt.78, ss.24-31, 2018 (SCI-Expanded)

## IX. Handover Management in Software-Defined Ultra-Dense 5G Networks

BILEN T., Canberk B., Chowdhury K. R.

IEEE NETWORK, cilt.31, sa.4, ss.49-55, 2017 (SCI-Expanded)

## Diğer Dergilerde Yayınlanan Makaleler

### I. A Proof of Concept on Digital Twin-Controlled WiFi Core Network Selection for In-Flight Connectivity

Bilen T., Ak E., Bal B., Canberk B.

IEEE Communications Standards Magazine, cilt.6, sa.3, ss.60-68, 2022 (Scopus)

### II. Handover-Aware Content Replication for Mobile-CDN

BİLEN T., CANBERK B.

IEEE Networking Letters, 2018 (Hakemli Dergi)

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

### I. A Machine Learning Model for Predicting Performance of Gamified Software Test Specialist

Odevci B. B., Ozdem M., Emsen E., Bilen T.

16th International Conference on INnovations in Intelligent SysTems and Applications, INISTA 2022, Biarritz, Fransa, 8 - 12 Ağustos 2022

### II. Customized K-Means Based Topology Clustering for Aeronautical Ad-hoc Networks

Bilen T., Aydemir P. J., Konu A. E., Canberk B.

IEEE 26th International Workshop on Computer Aided Modeling and Design of Communication Links and Networks (CAMAD), ELECTR NETWORK, 25 - 27 Ekim 2021

### III. Parametric-Decomposition Based Request Routing in Content Delivery Networks

BİLEN T., Kurnaz D., Sevim S., CANBERK B.

The 16th International Conference on Wired/Wireless Internet Communications (IFIP WWIC), 10 - 15 Haziran 2018

### IV. A Smart City Application: Business Location Estimator using Machine Learning Techniques

Bilen T., Erel-Ozcevik M., Yaslan Y., Oktuğ S. F.

20th IEEE International Conference on High Performance Computing and Communications (HPCC) / 16th IEEE International Conference on Smart City (SmartCity) / 4th IEEE International Conference on Data Science and Systems (DSS), Exeter, Kanada, 28 - 30 Haziran 2018, ss.1314-1321

### V. Optimal enodeb estimation for 5G intra-macrocell handover management

Bilen T., Duong T. Q., Canberk B.

12th ACM Symposium on QoS and Security for Wireless and Mobile Networks, Q2SWinet 2016, Malta, Malta, 13 - 17 Kasım 2016, ss.87-93

### VI. Binary Context Tree Based Middleware for Next Generation Context Aware Networks

BILEN T., Canberk B.

3rd International Conference on Future Internet of Things and Cloud (FiCloud) / International Conference on Open and Big Data (OBD), Rome, İtalya, 24 - 26 Ağustos 2015, ss.93-99

## Metrikler

Yayın: 20

Atıf (WoS): 45

Atıf (Scopus): 61

H-İndeks (WoS): 2

H-İndeks (Scopus): 3

## **Akademi Dışı Deneyim**

Türk Telekom