

## Personal Information

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## Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği, Turkey 2017 - Continues

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği, Turkey 2016 - 2017

Undergraduate, Istanbul Technical University, Bilgisayar Ve Bilişim, Bilgisayar Mühendisliği, Turkey 2010 - 2015

## Academic Titles / Tasks

Research Assistant, Istanbul Technical University, Bilgisayar ve Bilişim, Bilgisayar Mühendisliği, 2018 - Continues

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

- I. **Q-Learning Driven Routing for Aeronautical Ad-Hoc Networks**  
Bilen T., Canberk B.  
PERVASIVE AND MOBILE COMPUTING, vol.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, vol.22, no.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, vol.10, pp.20053-20079, 2022 (SCI-Expanded)
- IV. **Three-phased clustered topology formation for Aeronautical Ad-Hoc Networks**  
Bilen T., Canberk B.  
PERVASIVE AND MOBILE COMPUTING, vol.79, 2022 (SCI-Expanded)
- V. **Learning-Vector-Quantization-Based Topology Sustainability for Clustered-AANETs**  
Bilen T., Canberk B.  
IEEE NETWORK, vol.35, no.4, pp.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, vol.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, vol.146, pp.39-47, 2019 (SCI-Expanded)

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

BİLEN T., AYVAZ K., Canberk B.

Ad Hoc Networks, vol.78, pp.24-31, 2018 (SCI-Expanded)

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

BİLEN T., Canberk B., Chowdhury K. R.

IEEE NETWORK, vol.31, no.4, pp.49-55, 2017 (SCI-Expanded)

## Articles Published in Other Journals

**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, vol.6, no.3, pp.60-68, 2022 (Scopus)

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

BİLEN T., CANBERK B.

IEEE Networking Letters, 2018 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

**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, France, 8 - 12 August 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 October 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 June 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, Canada, 28 - 30 June 2018, pp.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 November 2016, pp.87-93

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

BİLEN T., Canberk B.

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

## Metrics

Publication: 20

Citation (WoS): 45

Citation (Scopus): 61

H-Index (WoS): 2

H-Index (Scopus): 3

**Non Academic Experience**

Türk Telekom