

Orhan Tahir Yavaşcan

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Education

- 2022– **PhD**, *Middle East Technical University, Electrical and Electronics Engineering*, Ankara, Turkey
Telecommunications Field, Advisor: Elif Uysal
- 2019–2022 **M.S.**, *Middle East Technical University, Electrical and Electronics Engineering*, Ankara, Turkey
Telecommunications Field, Advisor: Elif Uysal, GPA: 3.71
- 2013–2018 **B.S.**, *Bilkent University, Electrical and Electronics Engineering*, Ankara, Turkey
Comprehensive Scholarship, GPA: 3.45

Experience

- 2020– **5G VATS R&D Engineer**, *Turkcell Technology*, Ankara, Turkey
My research is being supported by Turkcell Technology within the framework of 5G and Beyond Joint Graduate Support Programme coordinated by Information and Communication Technologies Authority.
- 2020 **Graduate Research Assistant**, *METU Communication Networks Group*, Ankara, Turkey
Worked on the optimization of Age-of-Information (Aol) in random access channels under project "Sampling and Scheduling for Optimal Age of Information" led by Prof. Elif Uysal and funded by TÜBİTAK grant 117E215. Was concurrently TA in grad course "Probability and Stochastic Processes".
- 2018–2020 **Software Engineer**, *Milsoft Software Technologies*, Ankara, Turkey
Worked on real-time combat management systems in a CMMI-5 software company. Was responsible for developing and maintaining multimedia interface and GIS implementation of data link products. Became experienced with Java, Maven, Svn, Git, Jira, Jenkins, Confluence and Agile methodologies.
- 2017 **System Engineer Internee**, *Aselsan*, Ankara, Turkey
Worked on developing a pedestrian dead reckoning algorithm, an offline positioning system, using embedded systems on wearable technologies. Created a prototype on Android for testing and demo purposes.

Notable Accomplishments

- 2018 **Senior Project Fund (2209B)**, by Scientific and Technological Research Council of Turkey (TÜBİTAK)
- 2017 **Ranked 2nd**, in Nationwide Academic Personnel and Graduate Education Exam(ALES) among 220.000 candidates in Turkey
- 2015 **Best Project Award**, from Bilkent University for Digital Design course
- 2013 **Ranked in Top 50**, in Nationwide University Entrance Exam (LYS) among 2 million students in Turkey
- 2013 **Bronze Medal**, at 20th National Mathematical Olympiad by TÜBİTAK
- 2012 **Silver Medal**, at 29th Balkan Mathematical Olympiad representing Turkish National Team
- 2009 **Silver Medal**, at 14th Junior National Mathematical Olympiad by TÜBİTAK

Publications

Journals

MiSTA: Threshold-ALOHA with Mini Slots

M. Ahmetoglu, [O.T. Yavascan](#), E. Uysal
IEEE Internet of Things Journal, 2022.

Analysis of Slotted ALOHA With an Age Threshold

[O.T. Yavascan](#), E. Uysal

IEEE Journal on Selected Areas in Communications, 2021.

Conferences

Analysis of Threshold ALOHA in a Packet Erasure Channel, Best Paper Award

[O.T. Yavascan](#), E. Uysal

IEEE Signal Processing and Communications Applications (SIU), 2022.

Pull or Wait: How to Optimize Query Age of Information

M.E. Ildiz, [O.T. Yavascan](#), E. Uysal, O.T. Kartal

IEEE International Symposium on Information Theory (ISIT), 2022.

When To Pull Data for Minimum Age Penalty

[O.T. Yavascan](#), E.T. Ceran, Z. Cakir, E. Uysal, O. Kaya

International Symposium on Modeling and Optimization in Mobile, Ad hoc, and Wireless Networks (WiOpt), 2021.

MiSTA: Threshold-ALOHA with Mini Slots

M. Ahmetoglu, [O.T. Yavascan](#), E. Uysal

IEEE International Black Sea Conference on Communications and Networking (BlackSeaCom), 2021.

Analysis of Age-Aware Slotted ALOHA

[O.T. Yavascan](#), E. Uysal

IEEE Global Communications Conference (Globecom), 2020.

Patents

MuMiSTA, A Random Access Protocol With an Age Threshold

[O.T. Yavascan](#), E. Uysal, M. Ahmetoglu

Preprints

Query Age of Information: Optimizing Aol at the Right Time

M.E. Ildiz, [O.T. Yavascan](#), E. Uysal, O.T. Kartal

Under Review, 2022.

Achieving Optimal Age of Information with Wireless Energy Transfer

[O.T. Yavascan](#), E.T. Ceran, O. Kaya, E. Uysal

In preparation

MuMiSTA: An Extension to Age Aware Slotted Aloha

[O.T. Yavascan](#), M. Ahmetoglu, E. Uysal

In preparation

Languages

Turkish	Native
English	Advanced
German	Beginner

Toefl: 107/120, YDS: 97.5/100