

Diction Course Certificate, Bilkent University, Continues
Photoshop certificate, Bilge Adam, Continues
Wordpress certificate, cahem, Continues
Introduction to power electronics, coursera, Continues

Academic Titles / Tasks

Assistant Professor, TED University, Faculty of Engineering, Dept.of Electric&Electronics Engineering, 2017 - Continues

Academic and Administrative Experience

I wrote Part 4 of MÜDEK accreditation report, 2019 - Continues
Summer practice coordinator of EE department, TED University, Faculty Of Engineering, Dept.Of Electric&Electronics Engineering, 2018 - 2023
Discipline investigation of student Ardan Özkil, 2021 - 2021

Courses

Digital Signal Processing, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2016 - 2017
Software Tools for Electrical Engineering, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
Feedback Control Systems, Undergraduate, 2023 - 2024, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017
Summer Practice I, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
Summer Practice II, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
Senior Project II, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
Senior Project I, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
Power Electronics, Undergraduate, 2017 - 2018
Numerical Methods for Engineering, Undergraduate, 2017 - 2018
Electrical and Electronic Circuits Laboratory, Undergraduate, 2016 - 2017
Digital Logic Design, Undergraduate, 2016 - 2017

Jury Memberships

Doctorate, Doctorate, Ihsan Dogramaci Bilkent University, September, 2023
Post Graduate, Post Graduate, Başkent Üniversitesi, September, 2022
Post Graduate, Post Graduate, Başkent Üniversitesi, September, 2022
April, 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A game approach to multi-dimensional opinion dynamics in social networks with stubborn strategist agents**
Jond H. B., Yıldız A.
European Journal of Control, vol.75, 2024 (SCI-Expanded)
- II. **Connected and automated vehicle platoon formation control via differential games**

Jond H. B., Yıldız A.

IET Intelligent Transport Systems, vol.17, no.2, pp.312-326, 2023 (SCI-Expanded)

III. **Opinion dynamics of stubborn agents under the presence of a troll as differential game**

Yıldız A., Ozguler A. B.

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.29, no.7, pp.3259-3269, 2021 (SCI-Expanded)

IV. **Foraging motion of swarms with leaders as Nash equilibria**

Yıldız A., Ozguler A. B.

AUTOMATICA, vol.73, pp.163-168, 2016 (SCI-Expanded)

V. **Partially Informed Agents Can Form a Swarm in a Nash Equilibrium**

Yıldız A., Ozguler A. B.

IEEE TRANSACTIONS ON AUTOMATIC CONTROL, vol.60, no.11, pp.3089-3094, 2015 (SCI-Expanded)

VI. **Foraging Swarms as Nash Equilibria of Dynamic Games**

Ozguler A. B., Yıldız A.

IEEE TRANSACTIONS ON CYBERNETICS, vol.44, no.6, pp.979-987, 2014 (SCI-Expanded)

Articles Published in Other Journals

I. **Planar Swarming Motion under Single Leader as Nash Equilibrium**

Yıldız A.

2017

II. **POLİNOMSA L SİNYALLERDE PARÇACIK SÜRÜSÜ OPTİMİZASYONU TABANLI GÜRÜLTÜ BASTIRIMI**

Yıldız A., orhan a.

2010

Books & Book Chapters

I. **FORAGING MOTION OF SWARMS AS NASH EQUILIBRIA OF DIFFERENTIAL GAMES**

Yıldız A.

2016

II. **POLYNOMIAL FITTING AND TOTAL VARIATION BASED TECHNIQUES ON 1-D AND 2-D SIGNAL DENOISING**

Yıldız A.

2010

Refereed Congress / Symposium Publications in Proceedings

I. **Shooting Method for Opinion Dynamics**

Yıldız A., Jond H. B.

46th International Conference on Telecommunications and Signal Processing, TSP 2023, Virtual, Online, Czech Republic, 12 - 14 July 2023, pp.56-59

II. **Vehicle Swarm Platooning as Differential Game**

Yıldız A., Jond H. B.

20th International Conference on Advanced Robotics (ICAR), ELECTR NETWORK, 7 - 10 December 2021, pp.885-890

III. **Consensus as a Nash Equilibrium of a Dynamic Game**

Niazi M. U. B., Ozguler A. B., Yıldız A.

12th International Conference on Signal-Image Technology and Internet-Based Systems (SITIS), Naples, Italy, 28

November - 01 December 2016, pp.365-372

IV. Swarming behavior as Nash equilibrium

Ozgüler A. B., Yıldız A.

3rd IFAC Workshop on Distributed Estimation and Control in Networked Systems, NECSYS 2012, Santa Barbara, CA, United States Of America, 14 - 15 September 2012, vol.45, pp.151-155

V. Spatio-temporal interpolation of ionospheric TEC data İyonosfer TEİ verilerinin uzay-zamansal aradeğerlemesi

Yıldız A., Arıkan O., ARIKAN F.

2011 IEEE 19th Signal Processing and Communications Applications Conference, SIU 2011, Antalya, Turkey, 20 - 22 April 2011, pp.817-820

VI. Signal denoising by piecewise continuous polynomial fitting Parçalı sürekli sinyallerde parametrik modelleme ile gürültü bastırımı

Yıldız A., Arıkan O.

18th IEEE Signal Processing and Communications Applications Conference, SIU 2010, Diyarbakır, Turkey, 22 - 24 April 2010, pp.69-72

VII. Toplam Degisim Enkucultmesiyle ISAR İmgelerinin Gurultu Bastırımı

Yıldız A., arıkan o.

Scientific Refereeing

SPRINGERBRIEFS IN APPLIED SCIENCES AND TECHNOLOGY, SCI Journal, December 2023

IEEE TRANSACTIONS ON CYBERNETICS, SCI Journal, September 2023

OPTIMAL CONTROL APPLICATIONS & METHODS, SCI Journal, June 2023

IEEE TRANSACTIONS ON CYBERNETICS, SCI Journal, March 2023

IEEE Transactions on Intelligent Vehicles, SCI Journal, August 2022

IEEE CDC, Conference Paper (Full Text), April 2022

IEEE TRANSACTIONS ON CYBERNETICS, December 2021

IEEE TRANSACTIONS ON AUTOMATIC CONTROL, December 2021

IEEE Transactions on Signal and Information Processing over Networks, November 2020

IEEE TRANSACTIONS ON CYBERNETICS, August 2020

Scientific Consultations

quora, Ted University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey, 2020 - Continues

TED university, Ted University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey, 2019 - 2019

Scientific Research / Working Group Memberships

I shared all the documents of ee461 course with Mehmet Karaca, 2019 - Continues

I shared all the documents of EE403 course with Muhsin Caner Gökçe, 2019 - Continues

I shared ee222 syllabus with Asst. Prof. Muhsin Caner Gökçe, 2019 - Continues

I organized ee309 final of Prof.Erdem Yazgan, 2019 - Continues

els den sercan çelik le ders tasarımı üzerine konuştum, 2021 - 2021