

Asst. Prof. Tolga TURAY

Personal Information

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International Researcher IDs

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Biography

Tolga TURAY was born in Erzurum, Turkey, in 1991. His three degrees: the B.S. degree in Electrical-Electronics Engineering from Ataturk University, Turkey, in 2014; the M.Sc. degree in Embedded Systems and Control from the University of Leicester, U.K., in 2018; and the Ph.D. degree from the University of Leicester, U.K., in 2023. He is currently working as an Assistant Professor in Electrical-Electronics Engineering Department, Ataturk University. He is the author or co-author of many articles.

Education Information

Doctorate, University of Leicester, Engineering, England 2019 - 2023

Postgraduate, University of Leicester, School of Engineering, Embedded Systems and Control, England 2017 - 2018

Undergraduate, Ataturk University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, Turkey 2010 - 2014

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Vocational Training, Linux Introduction, University of Leicester, 2020

Vocational Training, Scientific Python for Programmers, University of Leicester, 2019

Foreign Language, English Language Teaching, English Language Teaching Unit , 2017

Dissertations

Doctorate, Innovative Convolutional Neural Networks for Object Detection in Autonomous Driving Systems, University of Leicester, School of Engineering, 2023

Research Areas

Computer Sciences, Computer Vision, Artificial Intelligence, Computer Learning and Pattern Recognition, Software, Electrical and Electronics Engineering, Electronic

Academic Titles / Tasks

Assistant Professor, Ataturk University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2023 - Continues

Courses

Mikroişlemciler, Undergraduate, 2023 - 2024

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **SSP Framework: A New Approach to Designing Lightweight Convolutional Neural Networks**
Turay T., Vladimirova T.
IEEE ACCESS, vol.10, pp.102292-102307, 2022 (SCI-Expanded)
- II. **Toward Performing Image Classification and Object Detection With Convolutional Neural Networks in Autonomous Driving Systems: A Survey**
Turay T., Vladimirova T.
IEEE ACCESS, vol.10, pp.14076-14119, 2022 (SCI-Expanded)

Other Publications

- I. **Innovative convolutional neural networks for object detection in autonomous driving systems**
Turay T.
Other, pp.1-172, 2023

Supported Projects

ÇAVUŞOĞLU B., ÖZBEK İ. Y., GÜNAY F. B., TURAY T., ÖNAL N., ORAL E. A., GEYİKOĞLU M. D., ÖMEROĞLU A. N., ERTAŞ S., KORKMAZ O. E., Project Supported by Higher Education Institutions, Yapay Zeka ile Güçlendirilmiş 5G Ötesi/6G Haberleşme Sistemleri, 2024 - Continues

Turay T., Vladimirova T., Project Supported by Public Organizations in Other Countries, Drone Equipped with AI for Spacecraft Missions, 2023 - 2023