

## Asst. Prof. BAHAEDDİN TÜRKOĞLU

### Personal Information

**Email:** turkoglub@ankara.edu.tr

**Other Email:** bahaeddinturkoglu@gmail.com

**Web:** <https://avesis.ankara.edu.tr/turkoglub>

### International Researcher IDs

ScholarID: yvzKneEAAAAJ

ORCID: 0000-0003-0255-8422

Publons / Web Of Science ResearcherID: AFM-7521-2022

Yoksis Researcher ID: 376956

### Biography

Dr. Bahaeddin TURKOĞLU, holds B.S. and M.S. degrees from Selcuk University, in 2016 and 2018, respectively, and a Ph.D. degree from Konya Technical University, Turkiye, in 2022, all in computer engineering. He held a "Big Data Analysis" certificate from HAVELSAN. His research interests include data science, optimization, swarm intelligence and deep reinforcement learning. He has developed various machine learning and data science projects using python and shared them on GitHub. Since 2018, he has been involved in volunteer work in Deep Learning Turkiye mentorship program. From 2016 to 2019, he was a deep learning developer at the Robotic and Automation Control Laboratory, Konya Technical University. He received first place with his team which is named RACLAB in autonomous car with deep learning in Open Zeka MARC. Since 2016, he has been executive manager of the smart event atmosphere research and development project at AtmosVeri Artificial Intelligence powered Software Solutions in InnoPark, Konya Technopole and Nigde Technopark Technology Development Area. From 2022 to 2024, he was a Asst.Prof.Dr at computer engineering department, Nigde Omer Halisdemir University. Since 2024, he has been an academician Asst.Prof.Dr. the Artificial Intelligence and Data Engineering Department at Ankara University.

### Education Information

Doctorate, Konya Technical University, Lisansüstü Eğitim Enstitüsü, Bilgisayar Mühendisliği, Turkey 2018 - 2022

Postgraduate, Selcuk University, Fen Bilimleri Enstitüsü, Computer Engineering, Turkey 2016 - 2018

Undergraduate, Selcuk University, Faculty of Engineering, Computer Engineering, Turkey 2012 - 2016

### Foreign Languages

English, B2 Upper Intermediate

### Research Areas

Route and Motion Planning, algorithms, Computer Vision, Database and Data Structures, Computer Learning, Fuzzy Sets and Systems, Evolutionary Computing, Neural Networks

## Academic Titles / Tasks

Assistant Professor, Ankara University, Mühendislik Fakültesi, Yapay Zeka Ve Veri Mühendisliği Bölümü, 2024 - Continues

Assistant Professor, Nigde Omer Halisdemir University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2022 - 2024

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

- I. **Chaotic Artificial Algae Algorithm for Solving Global Optimization With Real-World Space Trajectory Design Problems**  
TÜRKOĞLU B., Uymaz S. A., Kaya E.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, 2024 (SCI-Expanded)
- II. **A Novel Diversity Guided Galactic Swarm Optimization With Feedback Mechanism**  
Uymaz O., TÜRKOĞLU B., Kaya E., Asuroglu T.  
IEEE ACCESS, vol.12, pp.108154-108175, 2024 (SCI-Expanded)
- III. **Chaotic golden ratio guided local search for big data optimization**  
Kocer H. G., TÜRKOĞLU B., Uymaz S. A.  
ENGINEERING SCIENCE AND TECHNOLOGY-AN INTERNATIONAL JOURNAL-JESTECH, vol.41, 2023 (SCI-Expanded)
- IV. **Binary Artificial Algae Algorithm for feature selection**  
TÜRKOĞLU B., Uymaz S. A., Kaya E.  
APPLIED SOFT COMPUTING, vol.120, 2022 (SCI-Expanded)
- V. **Clustering analysis through artificial algae algorithm**  
TÜRKOĞLU B., Uymaz S. A., Kaya E.  
INTERNATIONAL JOURNAL OF MACHINE LEARNING AND CYBERNETICS, vol.13, no.4, pp.1179-1196, 2022 (SCI-Expanded)
- VI. **Training multi-layer perceptron with artificial algae algorithm**  
TÜRKOĞLU B., Kaya E.  
ENGINEERING SCIENCE AND TECHNOLOGY-AN INTERNATIONAL JOURNAL-JESTECH, vol.23, no.6, pp.1342-1350, 2020 (SCI-Expanded)

## Articles Published in Other Journals

- I. **An advanced Salp Swarm Algorithm for optimization problems**  
TÜRKOĞLU B.  
ENGINEERING SCIENCES, vol.12, no.4, pp.1071-1078, 2023 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Genetic Algorithm for Route Optimization**  
TÜRKOĞLU B., EROĞLU H.  
in: Applied Genetic Algorithm and Its Variants, Nilanjan Dey, Editor, Springer Nature Switzerland AG., pp.51-79, 2023
- II. **Chaos theory in metaheuristics**  
TÜRKOĞLU B., UYMAZ S. A., KAYA E.  
in: Comprehensive Metaheuristics Algorithms and Applications, Seyedali Mirjalili, Amir H. Gandomi, Editor, Academic Press, Elsevier, pp.1-20, 2023

## Refereed Congress / Symposium Publications in Proceedings

### I. Use of Transfer Learning in Small Data Sets: Fire Detection Example

KARABIYIK M. A., TÜRKOĞLU B.

ASES Uluslararası Bandırma Bilimsel Çalışmalar Kongresi, BANDIRMA, Turkey, 27 - 29 October 2023, pp.920-916

### II. Boosted Whale Optimization Algorithm

TÜRKOĞLU B.

3rd International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 20 - 23 July 2022, vol.3, pp.1716-1719

## Supported Projects

Türkoğlu B., KOSGEB, Kosgeb Ürge: Dijital Etkinlik Ajandası, 2023 - 2024

## Metrics

Publication: 11

Citation (WoS): 92

Citation (Scopus): 118

H-Index (WoS): 3

H-Index (Scopus): 4

## Non Academic Experience

Company, Atmosveri Yapay Zeka Destekli Yazılım ve Eğitim Teknolojileri, Data Science, Mobile Apps