

## Asst. Prof. Elif Zeynep Serper

### Personal Information

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### International Researcher IDs

ScholarID: cLNcPXcAAAAJ

ORCID: 0000-0002-5371-4192

Publons / Web Of Science ResearcherID: IZP-6813-2023

ScopusID: 57170903300

Yoksis Researcher ID: 384734

### Biography

**Elif Zeynep SERPER** received her bachelor's, master's, and doctoral degrees from the Industrial Engineering Department at TOBB University of Economics and Technology. During her graduate studies, she served as a research and teaching assistant at TOBB ETU. She joined TED University as an assistant professor in February 2023, where her research focuses on logistics, transportation, and communication network design applications.

From February 2024 to February 2025, she is a post-doctoral researcher at the University of Waterloo, working on the "Optimization of Hub Networks for Smart Transportation with Autonomous Vehicles," supported by TUBITAK. Her current research aims to develop sustainable transportation solutions that significantly reduce carbon emissions, enhance energy efficiency, and lower costs by integrating autonomous vehicles and IoT technologies.

### Research Areas

Industrial Engineering, Heuristic Methods, Integer and Mixed Integer Programming, Network Design

### Academic Titles / Tasks

Assistant Professor, TED University, Faculty Of Engineering, Department Of Industrial Engineering, 2023 - Continues  
Visiting Lecturer, University of Waterloo, Faculty Of Engineering, Department of Management Science and Engineering, 2024 - 2025

### Academic and Administrative Experience

Unit Accreditation Board Member, TED University, Faculty Of Engineering, Department Of Industrial Engineering, 2023 - 2024

Internship Coordinator, TED University, Faculty Of Engineering, Department Of Industrial Engineering, 2023 - 2024

### Courses

Summer Practice I, Undergraduate  
Network Flows, Postgraduate  
Summer Practice II, Undergraduate  
Mathematical Modeling and Optimization I, Undergraduate, 2022 - 2023

## **Supervised Theses**

Serper E. Z., Taner M. R., Sustainable Reverse Logistics Network Design for Electric Vehicle Batteries, Postgraduate,  
Y.Şan(Student), Continues

## **Jury Memberships**

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, TOBB Ekonomi Ve Teknoloji  
Üniversitesi, July, 2024

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

- I. **Coverage and connectivity based lifetime maximization with topology update for WSN in smart grid applications**  
Serper E. Z., Altin-Kayhan A.  
COMPUTER NETWORKS, vol.209, 2022 (SCI-Expanded)
- II. **The design of capacitated intermodal hub networks with different vehicle types**  
Serper E. Z., Alumur S. A.  
TRANSPORTATION RESEARCH PART B-METHODOLOGICAL, vol.86, pp.51-65, 2016 (SCI-Expanded)

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **Sustainable and Cost-Effective Reverse Logistics Network Design for Electric Vehicle Batteries**  
Yayalar Y. Ş., Serper E. Z., Taner M. R.  
YAEM 2023, Gaziantep, Turkey, 1 - 03 November 2023

## **Memberships / Tasks in Scientific Organizations**

Institute for Operations Research and the Management Sciences (INFORMS), Member, 2024 - Continues, United States Of  
America  
Member, 2024 - Continues, Canada

## **Congress and Symposium Activities**

CORS 2024, Attendee, Ontario, Canada, 2024

## **Scholarships**

2219 - International Postdoctoral Research Fellowship Program for Turkish Citizens, TUBITAK, 2024 - Continues