



## Res. Asst. SENA KUMCU

### Personal Information

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06570 Maltepe / Ankara.

### International Researcher IDs

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ScopusID: 57813274500

Yoksis Researcher ID: 316272



### Biography

Sena Kumcu is a PhD student as well as a research assistant in the Industrial Engineering Department at Gazi University (Turkey). She has a master degree in Industrial Engineering from Gazi University (Turkey). Her research interests are mathematical modelling, network optimization, supply chain management and decarbonization technologies.

### Education Information

|                  |  |
|------------------|--|
| 2021 - Continues | Doctorate, Gazi University, Mühendislik Fakültesi, Endüstri Mühendisliği, Turkey     |
| 2018 - 2020      | Postgraduate, Gazi University, Mühendislik Fakültesi, Endüstri Mühendisliği, Turkey  |
| 2012 - 2017      | Undergraduate, Gazi University, Mühendislik Fakültesi, Endüstri Mühendisliği, Turkey |

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

|      |  |
|------|--|
| 2020 | AN INTEGRATED APPROACH TO PURCHASING MANAGEMENT: THE HEALTHCARE APPLICATION, Gazi University, Mühendislik Fakültesi, Endüstri Mühendisliği, Postgraduate |
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### Research Areas

Industrial Engineering, Optimization Theory and Methods, Multiobjective Optimization, Nonlinear Programming, Heuristic Methods, Integer and Mixed Integer Programming, Supply Chain and Logistics Management, Network Design, Engineering and Technology

### Academic Titles / Tasks

## Articles Published in Other Journals

- I. **A research on capture, storage and utilization of released carbon for a sustainable green development**  
Kumcu S., Özyörük B.  
Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.12, no.2, pp.386-394, 2023 (Peer-Reviewed Journal)
- II. **Fault Analysis of a CNC Machine with Association Rules in Data Mining**  
Kumcu S., Özyörük B.  
Savunma Bilimleri Dergisi, vol.0, no.41, pp.205-226, 2022 (Peer-Reviewed Journal)
- III. **SUPPLIER SELECTION WITH AHP AND 0-1 GOAL PROGRAMMING: ANAPPLICATION IN HEALTHCARE INDUSTRY**  
KUMCU S., ÖZYÖRÜK B.  
Mersin University Journal of Maritime Faculty, vol.2, no.2, pp.50-61, 2020 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Determination of the Most Suitable New Generation Vacuum Cleaner Type with PFAHP-PFTOPSIS Techniques Based on E-WOM**  
KUMCU S., DESTİCİOĞLU TAŞDEMİR B., ÖZYÖRÜK B.  
in: Advances in Intelligent Manufacturing and Service System Informatics Proceedings of IMSS 2023, ZEKAİ ŞEN, ÖZER UYGUN,CANER ERDEM, Editor, Springer, Sakarya, pp.58-68, 2023
- II. **SUPPLIER SELECTION CRITERIA FOR HEALTHCARE ORGANIZATIONS**  
Kumcu S., Özyörük B.  
in: YAŞAM BİLİMLERİNDE MÜHENDİSLİK ÇÖZÜMLER, Dr. Mustafa DEMİRBİLEK, Editor, İksad Yayınevi, Ankara, pp.90-102, 2020

## Refereed Congress / Symposium Publications in Proceedings

- I. **Determination of the Most Suitable New Generation Vacuum Cleaner Type with PFAHP-PFTOPSIS Techniques Based on E-WOM**  
KUMCU S., DESTİCİOĞLU TAŞDEMİR B., ÖZYÖRÜK B.  
12th International Symposium on Intelligent Manufacturing and Service Systems, IMSS 2023, İstanbul, Turkey, 26 - 28 May 2023, pp.58-68
- II. **Comparison of E-Commerce Sites with Pythagorean Fuzzy AHP and TOPSIS Methods**  
DESTİCİOĞLU TAŞDEMİR B., KUMCU S., ÖZYÖRÜK B.  
Intelligent and Fuzzy Systems - Intelligence and Sustainable Future Proceedings of the INFUS 2023 Conference, İstanbul, Turkey, 22 - 24 August 2023, vol.759, pp.327-335
- III. **OTOMATİK TANIMLAMA VE VERİ TOPLAMA (OT/VT) SİSTEMİNİN BİRİŞLETMEYE ENTEGRE EDİLMESİ (INTEGRATING THE AUTOMATIC IDENTIFICATION AND DATA COLLECTION(AI/DC) SYSTEM INTO A BUSINESS)**  
Kumcu S., Özyörük B.  
INTERNATIONAL GOBEKLITEPE APPLIED SCIENCES CONGRESS-IV, Şanlıurfa, Turkey, 9 - 11 September 2022, pp.39-42
- IV. **Bibliometric Analysis of Research on Human Factors in Logistics**  
ÖZYÖRÜK B., KUMCU S.  
the Sixteenth International Conference on Management Science and Engineering Management, Ankara, Turkey, 3 - 06 August 2022, vol.144, pp.643-658

## Scientific Refereeing

November 2022

GAZI UNIVERSITY JOURNAL OF SCIENCE, Journal Indexed in ESCI

## Scientific Research / Working Group Memberships

2024 - Continues

Computer-Aided Process Engineering Laboratory University Of Padova ,  
<https://research.dii.unipd.it/capelab/>, Universita Degli Studi di Padova, Italy

## Metrics

Publication: 9

H-Index (WoS): 1