

# EMEL SEYMA KÜÇÜKAŞCI ÇİFTBÜDAK

## ASST. PROF.

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International Researcher IDs

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Publons / Web Of Science ResearcherID: ABD-9595-2020

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### Learning Knowledge

Doctorate 2013 - 2018	Bogazici University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (Dr), Turkey
Postgraduate 2010 - 2013	Bogazici University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (YI) (Tezli), Turkey
Undergraduate 2006 - 2010	Istanbul Commerce University, Mühendislik Ve Tasarım Fakültesi, Endüstri Mühendisliği Bölümü, Turkey

### Dissertations

Doctorate, Mathematical programming and statistical learning approaches for multiple instance learning, Bogazici University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (Dr), 2018

Postgraduate, Heuristic methods for solving the sensor network localization problem, Bogazici University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (YI) (Tezli), 2013

### Academic Titles / Tasks

Assistant Professor 2019 - Continues	Istanbul Commerce University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü
Research Assistant 2011 - 2019	Istanbul Commerce University, Mühendislik Ve Tasarım Fakültesi, Endüstri Mühendisliği Bölümü

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

- Multiple instance classification via quadratic programming**  
Küçükaşci E. Ş., Baydoğan M. G., Taşkın Z. C.  
Journal of Global Optimization, vol.83, no.4, pp.639-670, 2022 (SCI-Expanded)
- A linear programming approach to multiple instance learning**  
Küçükaşci E. Ş., Baydoğan M. G., Caner Taskin Z.  
Turkish Journal of Electrical Engineering and Computer Sciences, vol.29, no.4, pp.2186-2201, 2021 (SCI-Expanded)

### 3. **Bag encoding strategies in multiple instance learning problems**

Şeyma Küçükaşçı E. Ş., Gökçe Baydoğan M.

Information Sciences, vol.467, pp.559-578, 2018 (SCI-Expanded)

## Books & Book Chapters

### 1. **Use of Chaotic Randomness Numbers: Metaheuristic and Artificial Intelligence Algorithms**

ÖZPINAR M. A., KÜÇÜKAŞCI E. Ş.

in: Intelligent Techniques for Data Analysis in Diverse Settings, CELEBİ NUMAN, Editor, IGI GLOBAL, Hershey, pp.207-227, 2016

## Refereed Congress / Symposium Publications in Proceedings

### 1. **Multiple instance learning via quadratic programming**

KÜÇÜKAŞCI E. Ş., BAYDOĞAN M. G., TAŞKIN Z. C.

INFORMS Annual Meeting, Phoenix, United States Of America, 4 - 07 November 2018

### 2. **Mathematical programming approaches and data representations for multiple instance learning**

KÜÇÜKAŞCI E. Ş., BAYDOĞAN M. G., TAŞKIN Z. C.

INFORMS Annual Meeting, Houston, United States Of America, 22 - 25 October 2017

### 3. **Margin maximization via Benders decomposition to solve multiple instance learning problems**

KÜÇÜKAŞCI E. Ş., BAYDOĞAN M. G.

2016 INFORMS Annual Meeting, 13 - 16 November 2016, vol.0

### 4. **Çoklu Örnekle Öğrenme Problemlerinde Torba Temsili için Kodlama İzlemleri**

KÜÇÜKAŞCI E. Ş., BAYDOĞAN M. G.

Yöneylem Araştırması Endüstri Mühendisliği 36. Ulusal Kongresi, İzmir, Turkey, 13 - 15 July 2016, vol.0, pp.120

### 5. **Routing of Mobile Resources with PSO using Chaotic Randomness Chaotic PSO for Unexpected Delivery Failures in Manufacturing**

ÖZPINAR M. A., KÜÇÜKAŞCI E. Ş.

ICOVACS 2015, 6th Annual International Conference on Value Chain Sustainability, İstanbul, Turkey, 12 - 14 March 2015, pp.349-356

### 6. **Particle Swarm Optimization for Unplanned AGV Routing in Kanban Systems**

ÖZPINAR M. A., KÜÇÜKAŞCI E. Ş.

15th EU/ME Workshop: Metaheuristic and Engineering, İstanbul, Turkey, 24 - 26 March 2014, pp.107-112

## Courses

Olasılık ve İstatistik 2, Undergraduate, 2023 - 2024

Graduation Project, Undergraduate, 2023 - 2024

Endüstriyel Veri Madenciliği Uygulamaları, Postgraduate, 2023 - 2024

Quality Engineering, Undergraduate, 2023 - 2024

Business Analytics, Undergraduate, 2023 - 2024

Design Project, Undergraduate, 2023 - 2024

Probability and Statistics 1, Undergraduate, 2023 - 2024

Veri Madenciliği, Undergraduate, 2020 - 2021

## Scientific Refereeing

JOURNAL OF SUPERCOMPUTING, Journal Indexed in SCI-E, September 2024

JOURNAL OF SYSTEMS SCIENCE AND COMPLEXITY, Journal Indexed in SCI-E, May 2024  
ACM TRANSACTIONS ON INTELLIGENT SYSTEMS AND TECHNOLOGY, Journal Indexed in SCI-E, April 2024  
IEEE Transactions on Artificial Intelligence, Journal Indexed in SCI-E, December 2023  
INFORMATION SCIENCES, Journal Indexed in SCI-E, March 2021  
IEEE TRANSACTIONS ON KNOWLEDGE AND DATA ENGINEERING, Journal Indexed in SCI-E, January 2021  
OPTIMIZATION LETTERS, Journal Indexed in SCI-E, November 2020  
IEEE TRANSACTIONS ON CYBERNETICS, Journal Indexed in SCI-E, January 2020

## Research Areas

Artificial Intelligence, Computer Learning and Pattern Recognition, Optimization Theory and Methods