Duygu ÜÇÜNCÜ
Bahcesehir University,
Engineering and Natural Science Faculty
Mathematics Department
Istanbul, Turkey
+902123810586
duygu.ucuncu@bau.edu.tr

EDUCATION

PhD	**2011/2018-2024**

Yildiz Technical University, Istanbul

Mathematics

Thesis: Makine Öğrenme Problemlerinde Konveks Olmayan Optimizasyon Modellerinin İki Konveks Fonksiyonun Farkı ve İkinci Derece Konik Programlama İle Modellenmesi (Difference of Convex Functions Programming and Secon-Order Conic Programming Modellening of Non-Convex Optimization Problems in Machine Learning)

Supervisors: Erdal GÜL, Süreyya ÖZÖĞÜR AKYÜZ

Master's degree (without Thesis)	**2009-2010**

Marmara University, Istanbul

Mathematics and Science Education / Mathematics Teacher Education

Master's degree	**2007-2009**

Yildiz Technical University, Istanbul

Mathematics

Thesis: İkinci Mertebeden Lineer Diferansiyel Denklemlerin Seri Çözümleri (Series Solutions of Second Order Linear Differantial Equations)

Supervisor: Erdal GÜL

Degree: Department's 1st

Bachelor's degree	**2002-2006**

Kocaeli University, Kocaeli

Mathematics

Degree: Department's 7th

RESEARCH & TEACHING EXPERIENCE

Assistant Professor	**2024-Continue**

Bahcesehir University, Istanbul - Mathematics Department

Research Assistant	**2012-2024**

Bahcesehir University, Istanbul - Mathematics Department

COURSES:

- Numerical Analysis
- Numerical Methods for Engineers
- Calculus I
- Calculus II
- Calculus I – PS

Duygu ÜÇÜNCÜ
Bahcesehir University,
Engineering and Natural Science Faculty
Mathematics Department
Istanbul, Turkey
+902123810586
duygu.ucuncu@bau.edu.tr

- Calculus II – PS
- *Linear Algebra with Applications – PS*
- Analysis I – PS
- Analysis II – PS
- Differential Geometry – PS
- General Topology – PS
- Mathematics for Social Sciences – PS
- Mathematics for Biological Sciences – PS
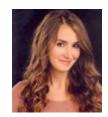

PUBLICATIONS (JOURNALS)

- *A novel auto-pruned ensemble clustering via SOCP*
  Duygu ÜÇÜNCÜ, Süreyya AKYÜZ, Erdal GÜL
  Cent Eur J Oper Res, 2023 (SCIE, Scopus Q2)

- *Classification of Motor Imagery Task by Using Novel Ensemble Pruning Approach*
  Muhammad Ammar ALI, Duygu ÜÇÜNCÜ, Pinar KARADAYI ATAS, Sureyya OZOGUR-AKYUZ
  IEEE Transactions on Fuzzy Systems, 2019 (SCIE, Scopus Q1)

- *On the Trace Formula for a Differential Operator of Second-Order with Unbounded Operator Coefficient*
  Erdal GÜL, Duygu ÜÇÜNCÜ
  Sigma Journal of Engineering and Natural Sciences - Sigma Mühendislik ve Fen Bilimleri Dergisi, 2018 (ESCI, Scopus Q4)

PUBLICATIONS (CONFERENCES)

- *Auto-Pruned SOCP Clustering Problem (Abstract)*
  Duygu ÜÇÜNCÜ, Sureyya OZOGUR-AKYUZ
  33rd European Conference on Operational Research, 2024

- *Novel Ensemble SVM Algorithm for Classification of Motor Imagery Task (Abstract)*
  Duygu ÜÇÜNCÜ, Muhammad Ammar ALI, Pinar KARADAYI ATAS, Sureyya OZOGUR-AKYUZ
  30th European Conference on Operational Research, 2019

- *Optimality Conditions for Sparse Quadratic Optimization Problem*
  Duygu ÜÇÜNCÜ, Süreyya AKYÜZ, Erdal GÜL, Gerhard Wilhelm-WEBER
  International Conference on Engineering Optimization, 2018

- *Seyrek Kuadratik Optimizasyon Problemi için Optimalite Koşul İncelemesi (Abstract)*
  Duygu ÜÇÜNCÜ, Süreyya AKYÜZ, Erdal GÜL, Gerhard Wilhelm WEBER
  38. Yöneylem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi (YAEM 2018), 2018

- *On The Trace Formula for a Differential Operator of Second Order with Unbounded Operator Coefficients*
  Erdal GÜL, Duygu ÜÇÜNCÜ
  13th Algebraic Hyperstructures and its Applications (AHA2017)), 2017

- *On regularized trace of a differential operator of second order*
  Erdal GÜL, Duygu ÜÇÜNCÜ
  AIP Conference Proceedings, 2016

Duygu ÜÇÜNCÜ
Bahcesehir University,
Engineering and Natural Science Faculty
Mathematics Department
Istanbul, Turkey
+902123810586
duygu.ucuncu@bau.edu.tr

RESEARCH AREAS

- Sparse Quadratic Non-Convex Optimization
- Machine Learning
- Ensemble Pruning
- Numerical Optimization
- Analysis
- Mathematical Modelling

LANGUAGES

- Turkish – Natural Language
- English – Advanced in Reading, Writing, Speaking
- French – Beginner

TECHNICAL SKILLS

- MS Office – High Capacity
- Weka – High Capacity
- MATLAB – Intermediate
- Python – Intermediate
- C++ – Beginner
- Java – Beginner

MEMBERSHIPS

- EURO (Association of European Operational Research Societies)

CERTIFICATES

- 33rd European Conference on Operational Research, 2024 Stream Organizer

- 33rd European Conference on Operational Research, 2024 Session Organizer

- 30th European Conference on Operational Research, 2019 Session Organizer

- Summer School on Optimization, Big Data and Applications (OBA)
  Universita Degli Studi Firenze, 30th June – 6th July 2019

- Using Optimization Toolbox and Machine Learning in Matlab, 18-19 May 2013