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

EDUCATION

PhD. Canditate   **2020 (Expected)**

Yildiz Technical University, Istanbul

Mathematics

Thesis: Makine Öğrenme Problemlerinde İçbükey Olmayan Optimizasyon Modellerinin İki İçbükey Fonksiyonun Farkı ve İkinci Derecede Konik Programlama ile Modellenmesi

Supervisors: Erdal GÜL, Süreyya ÖZÖĞÜR AKYÜZ

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

Marmara University, Istanbul

Mathematics and Science Education / Mathematics Teacher Education

Master's degree   **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   **2006**

Kocaeli University, Kocaeli

Mathematics

Degree: Department's 7th

RESEARCH & TEACHING EXPERIENCE

Research Assistant   **2012-Continue**

Bahcesehir University, Istanbul - Mathematics Department

- Calculus I – Theory
- Calculus I - Problem Solving
- Calculus II - Theory
- Calculus II - Problem Solving
- Analysis I - Problem Solving
- Analysis II - Problem Solving
- Differential Geometry - Problem Solving
- General Topology - Problem Solving
- Mathematics for Social Sciences - Problem Solving

Mathematics Teacher   **2009-2011**

Fen Bilimleri Private Teaching Institution, Istanbul

- High School Mathematics Courses

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PUBLICATIONS (JOURNALS)

- *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

- *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

PUBLICATIONS (CONFERENCES)

- *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 *(Abstract)*
  Erdal GÜL, Duygu ÜÇÜNCÜ (2017)
  13th Algebraic Hyperstructures and its Applications (AHA2017)

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

RESEARCH AREAS

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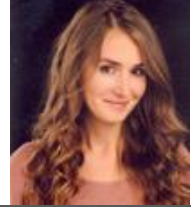- Numerical Optimization
- Analysis
- Mathematical Modelling

LANGUAGES

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

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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

- 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