# A. Burak Paç

## Curriculum Vitae

Department of Industrial Engineering
Gebze Technical University
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## Work Experience

- Mar 2018 **Assistant Professor, Industrial Engineering**, *Gebze Technical University*, Kocaeli Present
- Oct 2013 **Software Programmer/Numerical Optimization**, *Hemosoft Information* Feb 2017 *Technologies and Training Services, Inc.*, Ankara
- Aug Sep **SAP Consultancy Intern**, *VEKTORA IT Consulting Company*, Istanbul 2007
- Sep 2005 Intern, CNG Bus Project Management, MAN Turkey Inc. Ankara Bus & Truck Plant, Ankara
- Aug 2004 Intern, ASELSAN Electronic Industries Inc., Engineering Directorate Department,
  Ankara

## Educational Background

- 2010-2016 **Doctor of Philosophy**, Department of Industrial Engineering, Bilkent University, Ankara, Turkey
  - Thesis title: Robust Portfolio Optimization with Risk Measures under Distributional Uncertainty
- 2007-2010 **Master of Science**, Department of Industrial Engineering, Bilkent University, Ankara, Turkey
  - Thesis title: Row Generation Techniques for Approximate Solution of Linear Programming Problems
- 2006-2007 **PhD Program**, *Graduate School of Business, Department of Operations, Information and Technology*, Stanford University, Stanford, California, USA
- 2002–2006 **Bachelor of Science**, *Department of Industrial Engineering, Bilkent University*, Ankara, Turkey, Graduated as First of the Cohort

# Teaching Experience

2007 – 2014 **Teaching Assistant**, Department of Industrial Engineering, Bilkent University, Ankara, Turkey

IE202: Introduction to Modeling and Optimization IE303: Modeling and Methods in Optimization

IE325: Stochastic Models

IE342: Engineering Economic Analysis IE490: Introduction to Research in IE/OR

20018 - Assistant Professor, Department of Industrial Engineering, Gebze Technical

University, Kocaeli, Turkey

IE511: Linear Programming

IE514: Mathematical Foundations of Operations Research

IE201: Introduction to Optimization IE201: Introduction to Optimization

IE203: Economics I IE204: Economics II

INF212: Algorithms and Programming II

IE434: Design for Human Factors

INF100: Introduction to Computer Systems

ECON207: Statistics I ECON208: Statistics II

#### Research Interests

Theoretical Robust Optimization, Convex Optimization, Stochastic Modeling, Stochastic

Programming, Statistics, Linear Programming, Nonlinear Programming

Applied Game Theory, Finance, Numerical Optimization, Bioinformatics  $\ensuremath{\mathsf{IE}}/\ensuremath{\mathsf{OR}}$ 

#### Publications

- [1] Paç, A.B. and Pınar, M.Ç. "On Robust Portfolio and Naive Diversification: Mixing Ambiguous and Unambiguous Assets", to appear in *Annals of Operations Research*.
- [2] Pınar, M.Ç. and Paç, A.B. "Mean Semi-deviation from a Target and Robust Portfolio Choice under Distribution and Mean Return Ambiguity." Journal of Computational and Applied Mathematics 259 (2014): 394-405.
- [3] Paç, A.B. and Pınar, M.Ç. "Robust Portfolio Choice with CVaR and VaR under Distribution and Mean Return Ambiguity." TOP 22 (2014): 875-891.
- [4] Pınar, M.Ç. and Paç, A.B. "Expected Downside Deviation and Robust Portfolio Choice under Distribution and Mean Return Ambiguity." (working paper).

#### Conference Presentations

"Investor Avoidance from Risk as the Uniform Portfolio Becomes Optimal" November 2015, INFORMS Annual Meeting, Philadelphia, PA, USA.

"Mean Semi-Deviation from a Target and Robust Portfolio Choice under Distribution and Mean Return Ambiguity"

September 2015, YAEM, Middle East Technical University, Ankara, Turkey (in Turkish).

"Dairy Farm Ration Optimization in Terms of Milk Yield and Cost" September 2015, YAEM, Middle East Technical University, Ankara, Turkey (in Turkish).

## Research Projects

- Nov 2021 PV40+ Photovolaic Panels with Service Life Beyond 40 Years and Reduced Environmental Impact, supported by TUBİTAK ARDEB UPAG
- Jan 2023 **ASYST Farm and Herd Management Decision Support System**, supported by TUBİTAK TEYDEB Industrial R&D Grant 1501

## Industrial Projects

- Dec 2013 Genesense Genetic Diagnosis and Research Software System, supported by
  - Nov 2016 TUBITAK TEYDEB Industrial R&D Grant 1501
- Feb 2012 ASYST Farm and Herd Management Decision Support System, supported by
- Nov 2014 TUBITAK TEYDEB Industrial R&D Grant 1501

#### Honors and Awards

- 2012 **2211 Doctoral Scholarship**, from TUBİTAK
- 2010 Full scholarship, from Bilkent University for PhD studies
- 2007 Full scholarship, from Bilkent University for MS studies
- 2006 Fellowship, from Stanford University Graduate School of Business for PhD studies
- 2002 Full scholarship, from Bilkent University for BS studies

#### Computer skills

Programming C, C++, Python, JAVA, Fortran 77/95, MATLAB/GNU Octave, R Programming

Optimization Gurobi, ILOG CPLEX/Concert Technology, Xpress

General LATEX