

Birce Tezel

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Research Interest	Scheduling, Stochastic Programming, Revenue Management	
Education	MSc Sabanci University (SU) Faculty of Engineering and Natural Sciences • Major: Industrial Engineering <i>GPA:3.95</i>	2012
	BSc Sabanci University (SU) Faculty of Engineering and Natural Sciences • Major: Manufacturing Systems Engineering <i>GPA:3.56, Junior GPA: 3.76, Senior GPA: 3.93</i> • Minor: Mathematics <i>GPA: 3.53</i> • Graduation Project: The single machine weighted tardiness problem with probabilistic constraints Advisors: Kerem Bulbul, Nilay Noyan	2010
	Gaziantep Vehbi Dinçerler Science High School Curriculum with intensive concentration of natural sciences <i>GPA: 4.96/5.00</i>	2005
Honors	<ul style="list-style-type: none">• TUBITAK Bideb 2210 Scholarship• Dean's Honor List (three terms) and Dean's High Honor List (three terms)• Merit Scholarship for being ranked in the top 0.3% in 2005 National University Entrance Exam among more than 1.5 million high school graduates. (Covers 66% of the tuition expenses)	
Work Experience	Graduate Teaching Assistant of Prof. Nilay Noyan in "Simulation", SU Holding weekly office and recitation hours, preparing recitation materials. Grading exam papers. Supporting students throughout their projects.	2011
	Graduate Teaching Assistant of Prof. Kerem Bulbul in "Stochastic Models in Operations Research", SU Holding weekly recitation and office hours, preparing recitation materials. Grading exam papers.	2010
	Teaching Assistant of Prof. Nilay Noyan in "Simulation", SU Holding weekly office hours and recitation hours, preparing some of the recitation materials. Supporting students throughout their projects.	2010

	Teaching Assistant of Prof. Kerem Bulbul in “Stochastic Models in Operations Research”, SU	2009
	Holding weekly office hours and recitation hours for Queuing Theory and Dynamic Programming, grading and supporting students in their coding projects	
	Information Systems Department, Cadbury Turkey	2009
	<ul style="list-style-type: none"> • Created a reporting tool using visual basic for applications 	
	Production Planning Department, Şölen Çikolata A.Ş., Turkey	2009
	<ul style="list-style-type: none"> • Assisted with the preparation of the weekly production schedule • Forecasted monthly demand of the fifty most popular products 	
Conference Proceedings	S. Atakan, B. Tezel, K. Bulbul, N. Noyan, 2011. Minimizing Value-at-Risk in the Single-Machine Total Weighted Tardiness Problem. <i>MISTA 2011, 5th Multidisciplinary International Scheduling Conference: Theory & Applications, Phoenix, AZ.</i>	
Conference Presentations	<p><i>Minimizing Value-at-Risk in the Single-Machine Total Weighted Tardiness Problem.</i></p> <p>Joint work with B. Tezel, K. Bulbul and N. Noyan.</p> <ul style="list-style-type: none"> • YAEM 2011, 31th National Congress on Operations Research and Industrial Engineering, Sakarya, Turkey • INFORMS 2011 Midwestern Conference, Analytics for Competitive Advantage, Columbus, OH. 	
Projects	<ul style="list-style-type: none"> • Column generation algorithm for vehicle scheduling problem <i>Implementation was made using MATLAB and CPLEX</i> • Flow Decomposition Algorithm <i>Given a flow in the network, the code decomposes this flow into cycles and paths</i> • Branch and Bound Algorithm for the Knapsack problem <i>Both depth first and breadth first strategies were implemented and compared</i> • Implementation of Lawler’s algorithm for minimizing total tardiness of single machine scheduling problem • Decision Support System for Single Machine Scheduling Problems with Different Objectives (using VBA) • Business Plan of a Boutique Hotel • Analysis of Vodafone’s Marketing Structure in Both Turkish and American Markets • Inventory Control and Management Using (S,s) Model in a Retail Company • Implemented heuristics for Assembly Line Balancing Type-II Problem <i>Local improvement, Genetic Algorithm, Tabu Search and Simulated Annealing algorithms were developed using C++</i> 	
Certificates and Exchange Programs	<ul style="list-style-type: none"> • SU IT Training Center, certificate of participation in “Object Oriented Programming with Java” course • Koc Kariyer, certificate of participation in the workshop “Gelişim Üretim & AR-GE” in 2009 • Bilkent University, Operations Research Student Club, certificate of participation in 4th Youth Academy Workshop regarding “Strategy” 	

- Granbury High School, Long term exchange student (one year), Granbury, Texas, United States of America, 2005-2006
- Rotary Club, Short term exchange student (2 weeks), Austria, Summer 2006
- Rotary Club, certificate of participation in Rotary Youth Leadership Awards in 2003

Skills

High experience in the following coding languages and computer software:

Coding: C++, MATLAB, VBA, Java

Optimization: OPL, GAMS, AMPL

Simulation: Arena

Microsoft Office Package (Advanced knowledge on Excel), Microsoft Visio, Microsoft Project

Miscellaneous: SolidWorks (Intermediate), HTML (Basic)

Language Skills:

Turkish as native language

Advanced English in writing, listening and speaking

Basic experience in Spanish

Personal

- CMAS One Star Scuba Diver
- Playing tennis since 2001. (Played as a member of the Varsity team of Granbury High School)
- Visited elder people in a nursing home for one year and created a booklet about their life stories.
- Gym sports, especially spinning