

Işıl Talay Değirmenci, PhD
Assistant Professor, of Business Administration
Dept. Chair of Business Administration

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EDUCATION

Ph.D DUKE UNIVERSITY/
2010 OPERATIONS MANAGEMENT (Ph.D)
Thesis' Name: Asymptotic Analysis and Performance-based Design of Large
Scale Service and Inventory Systems

M.Sc KOÇ UNIVERSITY/
2004 INDUSTRIAL ENGINEERING (M.Sc)
Thesis Title: Inventory Pricing and Replenishment for a Make-to-Stock
Production System with Fluctuating Demand and Lost Sales

B.Sc İSTANBUL TECHNICAL UNIVERSITY/
2002 INDUSTRIAL ENGINEERING

ACADEMIC EMPLOYMENT

Assistant Professor ANTALYA BİLİM UNIVERSITY
2012 FACULTY OF ECONOMICS, ADMINISTRATIVE AND
SOCIAL SCIENCES/BUSINESS ADMINISTRATION

PROFESSIONAL EMPLOYMENT

Institute Assistant Manager ANTALYA BİLİM UNIVERSITY /INSTITUTE OF SOCIAL
2017-Present SCIENCES

Institute Manager ANTALYA BİLİM UNIVERSITY /INSTITUTE OF SOCIAL
2016-2017 SCIENCES

Dept. Chair of Business ANTALYA BİLİM UNIVERSITY / FACULTY OF ECONOMICS,
Administration ADMINISTRATIVE AND SOCIAL SCIENCES/BUSINESS
2013-Present ADMINISTRATION

Optional Practical DUKE UNIVERSITY / MEDICAL CENTER
Training on Healthcare
Operations & Database Mgmt
2010-2011

2010-2011	Department of Surgery	DUKE UNIVERSITY MEDICAL CENTER
2002	Designed a new career management system to be applied throughout the whole company	TURAŞ A.Ş.
2001-2002	Designed a new facility layout which allowed the manufacturer to expand its processes to a new building in the most efficient way	ORGANON İLAÇLARI A.Ş.
	Wrote over 25 job definitions for all the positions within the company via detailed analysis of more than 150 job description forms	

TEACHING & ADVISING

TEACHING

	Bachelor's Degree		Master Degree	
	Language	Courses	Language	Courses
2017-2018 Term	Introduction to Management Science	English	Brand Management	Turkish
2016-2017 Term	Supply Chain Management	English		
	Introduction to Management Science	English		
	Service Operations Management	English		
2015-2016 Term	Operations Management	English	Management & Organizations	Turkish
			Supply Chain Management	Turkish

2013-2014 Term			Marketing Management	Turkish
			Management & Organizations	Turkish
2009-2010 Term			Service Operations Management	English
2006-2009			Quality and Six Sigma	English
2003-2004 Term	Probability & Statistical Methods for Engineers	English		

ADVISING

RESEARCH INTERESTS

PUBLICATIONS

Books

Academic Articles

International Journal Articles (SCI & SSCI & Arts and Humanities)

ÖZDEMİR, Ö., TALAY-DEĞİRMENCİ, I. (2015). Optimal Staffing of Specialized Program Trainees Under Uncertainty, Journal of the Operational Research Society, 66 (1), 66-75. (SCI, SSCI).

TALAY-DEĞİRMENCİ, I., HOLMES, C. J., KUO, P., & JENNINGS, O. B. (2013). An Analytic Decision Support Tool for Resident Allocation. Journal of Surgical Education, 70(1). (SCI-E).

GAYON, J. P., TALAY-DEĞİRMENCİ I., KARAESMEN F., E. L. ÖRMECİ. (2009). Optimal Pricing and Production Policies of a Make-to-Stock System with Fluctuating Demand, Probability in the Engineering and Informational Sciences, vol 23, 205–230. (SCI-E).

International Other Journal Articles

TALAY-DEĞİRMENCİ, I., KARAYÜN, İ., ÖZDEMİR, Ö. (2017). Cold Chain Logistics For Frozen Food at Tourism Destinations. Journal of Management, Marketing and Logistics – JMML, 4(2), 159-167.

National Journal Articles

ARSLAN, C., DEĞİRMENCİ, I. T., & ARSLAN, C. (2017). Malzeme İhtiyaç Planlaması Yazılımının Atölye Tipi Endüstriyel Üretim Yapan ve Dış Kaynak Kullanımı Düşük Bir Firmada Hayata Geçirilmesi. *Uluslararası İktisadi ve İdari Bilimler Dergisi*, 3(3), 86-110.

Book Chapters

TALAY-DEĞİRMENCİ I., KARAYÜN, İ. Strategic Decision Process on Transportation of Frozen Food at Tourism Destinations, *Researches On Science and Art in 21st Century Turkey*, eds. Arapgirlioglu, H., Atik, A., Elliott, R. L., Turgeon, E., 2837-2845, Gece Publishing, 2017.

Proceedings

Proceedings at International Conferences

YAVUZYILMAZ, B., HASABUBABA, F. J., TALAY-DEĞİRMENCİ, I., WILDES, V. (2017). *Food Waste Management in Hotels*, XV. International Logistics & Supply Chain Congress Proceedings, İstanbul-Turkey, October 19-20.

TALAY-DEĞİRMENCİ, I., ÖZDEMİR, Ö., KARAYÜN, İ. (2015). Frozen Foods Logistics at Tourism Destinations, XIII. International Logistics & Supply Chain Congress Proceedings, İzmir-Türkiye, October 22-23, 487-494.

ÖRMECİ, E. L., GAYON, J. P., TALAY-DEĞİRMENCİ I., F. KARAESMEN. (2006). Optimal Policies under Different Pricing Strategies in a Production System with Markov-Modulated Demand System Modeling and Optimization - Proceedings of 22nd IFIP TC 7 Conference, eds. Ceragioli, F., Dontchev, A., Furuta, H., Marti, K. Pandolfi L., 239-250, Springer.

Proceedings at National Conferences

TALAY-DEĞİRMENCİ, I., KARAYÜN, İ., ÖZDEMİR, Ö. (2017). Turizm Bölgelerinde Dondurulmuş Gıda Ürünlerine Yönelik Soğuk Zincir Lojistiği, 6.Ulusal Lojistik ve Tedarik Zinciri Kongresi 17-19 Mayıs 2017, Antalya

TALAY-DEĞİRMENCİ I., KARAESMEN F., E. L. ÖRMECİ. (2004). Stok İçin Üretim Sisteminde Tek Tüketici Sınıfı Ve Yitik Satışlarla Envanter Fiyatlandırması Ve İkmali. YAEM, Adana, Turkey.

International Citation

ÖZDEMİR, Ö., TALAY-DEĞİRMENCİ, I. (2015). Optimal Staffing of Specialized Program Trainees under Uncertainty, *Journal of the Operational Research Society*, 66 (1), 66-75 (SCI, SSCI). **Cited Citation: 2**

TALAY-DEĞİRMENÇİ, I., HOLMES, C. J., KUO, P., & JENNINGS, O. B. (2013). An Analytic Decision Support Tool For Resident Allocation. *Journal of Surgical Education*, 70(1), (SCI). **Cited Citation: 1**

TALAY-DEĞİRMENÇİ, I., Doctorate Thesis, Duke University, Mayıs 2010. Asymptotic Analysis And Performance-Based Design Of Large Scale Service And Inventory Systems. **Cited Citation: 3**

GAYON, J. P., TALAY-DEĞİRMENÇİ I., KARAESMEN F., E. L. ÖRMECİ. (2009). Optimal Pricing and Production Policies of a Make-to-Stock System with Fluctuating Demand, *Probability in the Engineering and Informational Sciences*, vol 23, 205–230, (SCI). **Cited Citation: 18**

Others

OTHER ACADEMIC ACTIVITIES

Certificate

Course

Memberships in Scientific Organizations

INFORMS, Manuf. and Service Op. Mgmt. Society, and Applied Prob. Society.

Presentations And Professional Service

Invited Talk, SAS Institute Inc., Cary, NC, Summer 2010.

“Inventory Pricing and Replenishment for a Make-to-Stock System with Fluctuating Demand and Lost Sales”

Session Chair and Presenting Author, INFORMS Annual Meetings, San Diego, CA, Fall 2009.
Session: “Queuing Applications in Manufacturing and Maintenance”

Presentation: “Performance-based Dimensioning of the Machine-Repairmen Problem,” (co-author O. B. Jennings)

Presenting Author (Sponsored Session), INFORMS Annual Meetings, Pittsburgh, PA, Fall 2006. “Dimensioning the Repairmen Problem with Spares,” (co-author O. B. Jennings)

HONORS & AWARDS

Research and Teaching Assistantship, Duke University Fuqua School of Business, Operations Management Department, USA, 2009-2010.

Full Fellowship, Duke University Fuqua School of Business, Operations Management Department, USA, 2004-2009.

Full Fellowship, Koç University, Industrial Engineering Department, 2003-2004.

Research and Teaching Assistantship, Koç University, Industrial Engineering Department, 2002-2003.

High Honor Roll, İstanbul Technical University, Fall 2001.

GRANTS AND PROJECTS

COMPUTER SKILLS

Dynamic programming and simulation coding in C/C++, Fortran, and Matlab

Algorithm application and user-interface design through MS Office macros via Visual Basic and object-oriented programming

AMPL and OPL Studio optimization software, ExtendSim simulation software

Knowledge of JMP and SPSS statistical software, Mathematica