Bariş Tan

Office Address

Özyeğin University Çekmeköy Kampüsü Nişantepe Mah. Orman Sk. 34794 Çekmeköy Istanbul Türkiye Contact Information Phone: +90-(216)-564-955 E-mail: baris.tan@ozyegin.edu.tr

Academic Positions	President / Rektör Özyeğin University	Jul. 2024 - present
	Professor of Industrial Engineering Faculty of Engineering, Özyeğin University	Mar. 2024 - present
	PROFESSOR OF OPERATIONS MANAGEMENT Faculty of Business (joint appointment), Özyeğin University	Mar. 2024 - present
	PROFESSOR OF OPERATIONS MANAGEMENT College of Administrative Sciences and Economics, Koç University	Dec. 2002 - Feb. 2024
	PROFESSOR OF INDUSTRIAL ENGINEERING College of Engineering (Joint Appointment), Koç University	Aug. 2014- Feb. 2024
	Vice President for Academic Affairs / Rektör Y. Koç University	Sept. 2013 - Aug. 2021
	DEAN College of Administrative Sciences and Economics, Koç University	Sep. 2007 - Sept. 2013
	DIRECTOR Graduate School of Business, Koç University	Sep. 2008 - Feb. 2010 Jan. 2003 - Dec.2005 Jan. 2002 - May 2002
	Associate Professor College of Administrative Sciences and Economics, Koç University	Oct. 1998 -Dec. 2002
	Assistant Professor College of Administrative Sciences and Economics, Koç University	July 1994 - Oct. 1998
	LECTURER Industrial and Systems Engineering, University of Florida	Jan. 1994 - May 1994
	RESEARCH ASSISTANT Industrial Research Laboratory, University of Florida	May 1991- May 1994
	Research Assistant Nanoptics Inc.	Oct. 1990- Sept. 1992

		B. Tan
Degrees	UNIVERSITY OF FLORIDA Ph.D. in Industrial and Systems Engineering	April 1994
	UNIVERSITY OF FLORIDA M.S.E. Graduate Certificate in Manufacturing Systems	May 1993
	UNIVERSITY OF FLORIDA M.E. in Industrial and Systems Engineering	Dec. 1991
	BOĞAZİÇİ UNIVERSITY B.S. in Electrical and Electronics Engineering	June 1990
Visiting Positions	VISITING PROFESSOR POLITECNICO DI MILANO Manufacturing and Production Systems	Jan. 2022 - Jan. 2024
	Senior Research Fellow ERA Project IN4ACT Kaunas University of Technology Industry 4.0 Impact on Management Practices and Economics	May 2022 - Apr. 2023
	Visiting Professor University College London UCL School of Management	Sep. 2017 - Sep. 2019
	Fellow University of Cambridge Judge Business School	Sep. 2013 - Sep. 2014
	VISITING SCHOLAR MASSACHUSETTS INSTITUTE OF TECHNOLOGY Laboratory for Manufacturing and Productivity	Aug. 2006 - July 2007
	Visiting Scholar Massachusetts Institute of Technology Operations Research Center	Jan. 2001 - June 2001
	VISITING SCHOLAR IN OPERATIONS RESEARCH HARVARD UNIVERSITY Division of Engineering and Applied Sciences Harvard Center for Textile and Apparel Research	Aug. 2000 - Aug. 2001
	VISITING RESEARCH SCIENTIST MASSACHUSETTS INSTITUTE OF TECHNOLOGY Laboratory for Manufacturing and Productivity	July. 1999 - Sept. 1999
Other Positions	LUMS, Pakistan Member of the University Advisory Board	2024-present
	KYOTO UNIVERSITY GRADUATE SCHOOL OF MANAGEMENT, Japan Member of the External Advisory Board	2021-present
	NOTTINGHAM BUSINESS SCHOOL, United Kingdom	2021-present
	Member of the International Advisory Board	2011-2023
	ISM UNIVERSITY OF MANAGEMENT AND ECONOMICS, Lithuania Chairman of the Senate	2016-2022
	Member of the Senate	2013-2016
	EM LYON, France Member of the International Advisory Board	2014-2022

EFMD: EUROPEAN FOUNDATION FOR MANAGEMENT DEVELOPMENT Member of the EQUIS Awarding Body	2013-2019
ORACLE, USA	2013-2019
Member of the Education and Research Industry Strategy Council	2013-2016
MINDSPECS, India	2010 2010
Member of the Advisory Board	2013-2016
THOMSON REUTERS, USA	2010 2010
Member of the Research Analytics Advisory Board	2013-2015
EFMD GLOBAL NETWORK	2010 2010
Member of the Board	2013-2014
Cems: The Global Alliance in Management Education	2010 2011
Member of the Strategic Board	2009-2013
EFMD: EUROPEAN FOUNDATION FOR MANAGEMENT DEVELOPMENT	
Member of the Board	2009-2013
Turkish Customer Satisfaction Index	
Member of the Board of Overseers	2005-2010
TURKISH OPERATIONS RESEARCH SOCIETY	
Member of the Board	2001-2009
TURKISH SOCIETY FOR QUALITY	
Member of the Board	2003-2008
TURKISH COMPUTER SIMULATION RESEARCH FOUNDATION	
Member of the Board of Trustees	1997-2003
Sloan Foundation Industry Studies Program	
Member	2007-present
INFORMS	1
Member	1993-present
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Omega - Best Paper Award	2024
WINTER SIMULATION CONFERENCE - BEST THEORETICAL PAPER AWARD Final	
Koç University Outstanding Faculty Award	2022
President's Award	2021
Koç University Outstanding Service Award	2021
Special Service Award	2021
Rockefeller Foundation	2017
Bellagio Center Residency Award	2011

Honors	Omega - Best Paper Award	2024
Awards	WINTER SIMULATION CONFERENCE - BEST THEORETICAL PAPER AWARD Fin	alist 2022
Fellowships	Koç University Outstanding Faculty Award	2021
	President's Award	
	Koç University Outstanding Service Award	2021
	Special Service Award	
	Rockefeller Foundation	2017
	Bellagio Center Residency Award	
	IIE TRANSACTIONS - BEST PAPER AWARD	2016
	Honorable Mention, Focused Issue on Design and Manufacturing	
	IIE TRANSACTIONS - BEST PAPER AWARD	2015
	Best Paper of the Year, Focused Issue on Design and Manufacturing	
	INFORMS - CASE AWARD Finalist	2014
	TÜBİTAK RESEARCH FELLOWSHIP	2006-2007
	TURKISH ACADEMY OF SCIENCES	2005
	Distinguished Young Scholar Award (TÜBA GEBIP)	
	Nato Science Fellowship	2000
	Koc-Harvard Visiting Scholar 1	999, 2000-2001
	EUROPEAN SIMULATION MULTICONFERENCE - BEST PAPER AWARD	1997
	National Collegiate Engineering Award	1994
	TÜBİTAK FELLOWSHIP	1985-1990

SCHOLARLY WORK

Research Areas	Design and Control of Manufacturing Systems Supply Chain Management Design of Business Models Stochastic Modeling and Control
Books	HANDBOOK OF STOCHASTIC MODELS AND ANALYSIS OF MANUFACTURING SYSTEM OPERA- TIONS, J.M. Smith and B. Tan (editors), International Series in Operations Research & Man- agement Science, Vol. 192, Springer, New York. 2013.
	STOCHASTIC MODELING OF MANUFACTURING SYSTEMS: ADVANCES IN DESIGN, PERFOR- MANCE EVALUATION, AND CONTROL ISSUES, G. Liberopoulos, C.T. Papadopoulos, B. Tan, J.M. Smith, S.B. Gershwin (editors), Springer, Berlin Heilderberg. 2006.
Working Papers	 Karabağ, O., Karaesmen, F., and Tan, B., "Optimizing Production and Recycling Decisions Using Real-Time Information,"
	2. Song, Y., Frigerio, N., Karabağ, O., and Tan, B. , Wang, J., "Returned Material Flow and Production Control for Circular Production Systems"
	3. Gou, Y.X, A. Matta, and Tan, B. , "An Efficient Data-driven Method for the Digital Twin Prediction Update Synchronization Problem"
	4. Özkan, E. and Tan, B. , "Asymptotically Optimal Energy Consumption and Inventory Control in a Multi-Class Make-to-Stock Manufacturing System with Multiple Machines"
	5. Owens, N., Schwarz, J. A., Karabağ, O., and Tan, B. , "Modeling and Analyzing the Effect of Stochastic Production on Product Rollovers"
	6. Tan, B. , Karabağ, O., and Khayyati, S., "Energy-Efficient Resource Scheduling of a Single Resource with Production Requirements: A Joint Simulation and Scenario-Based Mathe- matical Programming Approach"
	7. Stolletz, R. and Tan, B. , "When and How to (Mis-)match Supply and Demand: Managing Variable Environments"
	8. Manafzadeh Dizbin, N.* and Tan, B. , "Empirical Analysis of Product Flows in Semicon- ductor Manufacturing"
	9. Manafzadeh Dizbin, N.* and Tan, B. , "Cyle Time Prediction in Semiconductor Manufac- turing"
Journal Articles	 Çelik, B.*, Schwarz, J. A., and Tan, B., "Product and Price Competition with Selection of Unique and Common Features and Different Quality Levels," <i>International Journal of</i> <i>Production Economics</i>, Vol. 287, No. 109667, 2025.
	 Karabağ, O., Karaesmen, F., Tan, B., "Purchasing and Remanufacturing Decisions with Different Quality Returned Material and Finished Goods," <i>International Journal of Pro-</i> <i>duction Research</i>, DOI: https://doi.org/10.1080/00207543.2025.2451419, 2025.
	3. Tan, B. and Karabağ, "A Deterministic Fluid Model for Production and Energy Mode Control," International Journal of Production Economics, Vol. 278, 2109418, 2024.
	 Özkan, E. and Tan, B., "Asymptotically Optimal Energy Consumption and Inventory Con- trol in a Make-to-stock Manufacturing System," European Journal of Operational Research, Vol. 320, No. 2, pp. 375-388, 2024.

^{*}Graduate students

- Çelik, B.*, Schwarz, J. A., and Tan, B., "New Product Introductions with Selection of Unique and Common Features in Monopoly Markets," Omega, Vol. 125, No. 103018, 2024. (Omega Best Paper Award 2024)
- Frigerio, N., Tan, B. and Matta, A., "Simultaneous Control of Multiple Machines for Energy Efficiency: a Simulation-based Approach," *International Journal of Production Re*search, Vol. 62, No. 3, pp. 933-948, 2024.
- Tan, B. and Matta, A., "The Digital Twin Synchronization Problem: Framework, Formulations, and Analysis," *IISE Transactions*, Vol. 56, No. 6, pp. 652-665, 2024.
- Tan, B., Karabağ, O., and Khayyati, S., "Energy-efficient Production Control of a Make-to-Stock System with Buffer- and Time-Based Policies," *International Journal of Production Research*, Vol. 62, No. 16, pp. 5809-5824, 2024.
- Scrivano, S., Tan, B., Tolio, T., "Continuous-flow Simulation of Manufacturing Systems with Assembly/Disassembly Machines, Multiple Loops and General Layout," *Journal of Manufacturing Systems*, Vol. 69, pp. 103-118, 2023.
- Tan, B., Karabağ, O., and Khayyati, S., "Production and Energy Mode Control of a Production-Inventory System," *European Journal of Operational Research*, Vol. 308, No. 3, pp. 1176-1187, 2023.
- Tan, B. and Khayyati, S.*, "Supervised Learning Based Approximation Method for Single-Server Open Queuing Networks with Correlated Interarrival and Service Times," International Journal of Production Research, Special Issue on Big Data Analytics in Production and Distribution Management, Vol. 60, No. 22, pp. 6822-6847, 2022.
- Khayyati, S.* and Tan, B., "Supervised Learning-Based Approximation Method for Multiserver Queueing Networks under Different Service Disciplines with Correlated Inter-arrival and Service Times," *International Journal of Production Research*, Vol. 60, No. 17, pp. 5176-5200, 2022.
- Khayyati, S.* and Tan, B., "A Machine Learning Approach for Implementing Data-driven Production Control Policies," *International Journal of Production Research*, Vol. 60, No. 10, 3107-3128, 2022.
- 14. Hosseini, B.* and **Tan**, **B.**, "Modelling and Analysis of a Cooperative Service Network," *Computer and Industrial Engineering*, Vol.161, 107620, 2021.
- Khayyati, S.* and Tan, B., "A Lab-scale Manufacturing System Environment to Investigate Data-Driven Production Control Approaches," *Journal of Manufacturing Systems*, Vol.60, July, pp. 283-297, 2021.
- Schwarz, J.A. and Tan, B., "Optimal Sales and Production Rollover Strategies Under Capacity Constraints," *European Journal of Operational Research*, Vol. 294, No. 2, pp. 507-524, 2021.
- Manafzadeh Dizbin, N.* and Tan, B., "Optimal Control of Production/Inventory Systems with Correlated Demand Inter-Arrival and Processing Times," International Journal of Production Economics, Vol. 228, 107692, 2020.
- Khayyati, S.* and Tan, B., "Data-Driven Control of a Production/Inventory System by Using Marking-Dependent Threshold Policy," *International Journal of Production Economics*, Vol. 226, 107607, 2020.
- Tan, B., "Design of Balanced Energy Savings Performance Contracts," International Journal of Production Research, Vol. 58, No. 5, pp. 1401 - 1424, 2020.
- Tan, B., "Production Control with Price, Cost, and Demand Uncertainty," OR Spectrum, Vol. 41, No. 4, pp. 1057 - 1085, 2019.
- Manafzadeh Dizbin, N.* and Tan, B., "Modelling and Analysis of the Impact of Correlated Inter-event Data on Production Control Using Markovian Arrival Processes," *Flexible Services and Manufacturing Journal*, Vol. 31, No. 4, pp. 1042 - 1076, 2019.

- Hosseini, B.* and Tan, B., "Modelling and Analysis of a Cooperative Production Network," International Journal of Production Research, Vol. 57, No. 21, pp. 6665-6686, 2019.
- Karabağ, O.* and Tan, B., "An Empirical Analysis of the Main Drivers Affecting the Buyer Surplus in E-Auctions," *International Journal of Production Research*, Volume: 57, No. 11, pp. 3435 - 3465, 2019.
- Karabağ, O.* and Tan, B., "Purchasing, Production, and Sales Strategies for a Production System with Limited Capacity and Fluctuating Sales and Purchasing Prices," *IISE Transactions*, Vol. 51, No. 9, pp. 921-942, 2019.
- Karabağ, O.* and Tan, B., "Analysis of a Group Purchasing Organization Under Demand and Price Uncertainty," *Flexible Services and Manufacturing Journal*, Vol. 30, No. 4, pp. 844-883, 2018.
- Tan, B. and Lagershausen, S., "On the Output Dynamics of Production Systems Subject to Blocking," *IISE Transactions*, Vol. 49:3, pp. 268-284, 2017.
- Hosseini, B.* and Tan, B., "Simulation and Optimization of Continuous Flow Production Systems with a Finite Buffer by Using Mathematical Programming," *IISE Transactions*, Vol. 49:3, pp. 255-267, 2017.
- Tan, B., Yavuz, Y.*, Otay, E. N., and Çamlıbel, E., "Optimal Selection of Energy Efficiency Measures for Energy Sustainability of Existing Building," Computers and Operations Research: Special Issue on Operations Research in Energy Modelling and Management, Vol. 66, pp. 258-271, 2016.
- Tan, B. and Yavuz, Y.*, "Modelling and Analysis of a Business Model to Offer Energy Saving Technologies as a Service," International Journal of Production Research: Special Issue on Energy-Aware Manufacturing Operations, Vol. 53:23, pp.7118-7135, 2015.
- Lagershausen, S. and Tan, B., "On the Exact Inter-departure and Inter-start Distribution of Closed Queueing Networks Subject to Blocking," *IIE Transactions*, Vol. 47:7, pp.673-692, 2015.
- Tan, B., "Mathematical Programming Representations of Dynamics of Continuous Flow Production Systems," IIE Transactions, Vol. 47:2, pp. 173-189, 2015. (Honorable Mention for Best Paper Award in IIE Transactions Focused Issue on Design and Manufacturing)
- Tan, B. and Akçay, Y., "Assortment-based Cooperation of Two Firms with Limited Capacity," IIE Transactions, Vol. 46:3, pp. 1-17, 2014. (Best Paper of the Year Award in IIE Transactions Focused Issue on Design and Manufacturing)
- Tan, B. and Karabatı, S., "Retail Inventory Management with Stock-Out Based Dynamic Demand Substitution," International Journal of Production Economics, Vol. 145, pp. 78-87, 2013.
- Altuğ, S., Tan, B., and G. Gencer^{*}, "Cyclical Dynamics of Industrial Production and Employment: Markov Chain-based Estimates and Tests," *Journal of Economic Dynamics* and Control, Vol. 36, No. 10, pp. 1534-1550, 2012.
- Tan, B. and Çömden, E.N.*, "Agricultural Planning for Annual Plants under Harvest, Yield, and Demand Risk," *European Journal of Operational Research*, Vol. 220, pp. 539-549, 2012.
- Tan, B. and Gershwin, S.B., "Modeling and Analysis of Markovian Continuous Flow Production Systems with a Finite Buffer," Annals of Operations Research, Special Issue on Advances in the Analysis of Manufacturing Systems, Vol. 182, pp. 5-30, 2011.
- Tan, B. and Gershwin, S.B., "Analysis of General Markovian Continuous Flow Production Systems with a Finite Buffer," *International Journal of Production Economics*, Vol. 120, No. 2, pp.327-339, 2009.
- Gershwin, S.B., Tan, B. and Veatch, M., "Production Control with Backlog-Dependent Demand," *IIE Transactions*, Vol. 41, No. 6, pp. 511-523, 2009.

- Ozler, A.*, Tan, B., and Karaesmen, F., "Multi-product Newsvendor Problem with Valueat-Risk Constraints," *International Journal of Production Economics*, Vol. 117, No. 2, pp. 244-255, 2009.
- Karabatı, S., Tan, B. and Öztürk, Ö.C.*, "A Method for Estimating Stock-Out Based Substitution Rates by Using Point-of-Sale Data," *IIE Transactions*, Vol. 41, No. 2, pp. 408-420, 2009.
- Akçay, Y. and Tan, B., "On the Benefits of Assortment-Based Cooperation among Independent Producers," *Production and Operations Management*, Vol. 17, No. 6, pp. 626-640, 2008.
- Ağralı, S.*, Tan, B. and Karaesmen, F., "Modeling and Analysis of an Auction-Based Logistics Market", *European Journal of Operational Research*, Vol 191, No.1, pp. 270-292, 2008.
- Tan, B., "Modeling and Analysis of a Network Organization for Cooperation of Producers on Production Capacity," *Mathematical Problems in Engineering*, Volume 2006, Article ID 85103, pp. 1-24, 2006.
- Yıldırım, I.*, Tan, B. and Karaesmen, F., "A Multiperiod Stochastic Production Planning and Sourcing Problem with Service Level Constraints," OR Spectrum, Vol. 2, No. 2-3, pp. 471-489, 2005.
- Tan, B. "Subcontracting with Availability Guarantees: Production Control and Capacity Decisions," *IIE Transactions*, Vol. 36, No. 8, pp. 711-724, 2004.
- 46. Tan, B. and S. Karabatı, "Can the Desired Service Level be Achieved When the Demand and Lost Sales are Unobserved?," *IIE Transactions*, Vol. 36, No. 4, pp. 345-358, 2004.
- Tan, B. and S.B. Gershwin, "Production and Subcontracting Strategies for Manufacturers with Limited Capacity and Volatile Demand," Annals of Operations Research: Special Volume on Stochastic Models of Production/Inventory Systems, Vol. 125, pp. 205-232, 2004.
- Tan, B., "Production Control of a Pull System with Production and Demand Uncertainty," IEEE Transactions on Automatic Control, Vol. 47, No. 5, pp. 779-783, 2002.
- Tan, B., "Managing Manufacturing Risks by Using Capacity Options," Journal of the Operational Research Society, Vol. 53, No. 2, pp. 232-242, 2002.
- Tan, B. and Yılmaz, K., "Markov Chain Test for Time Dependence and Homogeneity: An Analytical and Empirical Evaluation," *European Journal of Operational Research*, Vol. 137, No. 3, pp. 524-543, 2002.
- Tan, B., "A Three Station Continuous Materials Flow Merge System with Unreliable Stations and a Shared Buffer," *Mathematical and Computer Modelling*, Vol. 33, Issue: 8-9, pp.1011-1026, 2001.
- Tan, B. and Karabatı, S. "Modelling and Scheduling of an Asynchronous Cyclic Production Line with Multiple Parts," *Journal of the Operational Research Society*, Vol. 51, No. 11, pp. 1296-1308, 2000.
- Tan, B. "Asymptotic Variance Rate of the Output in Production Lines with Finite Buffers," Annals of Operational Research, Special Issue on Performance Evaluation and Optimization of Production Lines, Vol. 93, pp. 385-403, 2000.
- Tan, B. and Otay, E., "Modeling and Analysis of Vessel Casualties Resulting from Tanker Traffic through Narrow Waterways," *Naval Research Logistics*, Vol. 46, No. 8, pp. 871-892, 1999.
- Tan, B., "Variance of the Output as a Function of Time: Production Line Dynamics," European Journal of Operational Research, Vol. 117, No. 3, pp. 470-484, 1999.
- Tan, B., "Asymptotic Variance Rate of the Output of a Transfer Line with No Buffer Storage and Cycle-Dependent Failures," *Mathematical and Computer Modelling*, Vol. 29, No. 7, pp. 97-112, 1999.

- Tan, B. "Agile Manufacturing and Management of Variability," International Transactions in Operational Research, Vol. 5, No. 5, pp. 375-388, 1998.
- Karabati, S. and Tan, B., "Stochastic Cyclic Scheduling Problem in Synchronous Assembly and Production Lines," *Journal of the Operational Research Society*, Vol. 49, No. 11, pp. 1173-1187, 1998.
- Tan, B., "An Analytic Formula for Variance of Output from a Series-Parallel Production System with No Interstation Buffers and Time-Dependent Failures," *Mathematical and Computer Modelling*, Vol. 27, No. 6, pp. 95-112, 1998.
- Tan, B., "Effects of Variability on the Due-Time Performance of a Continuous Materials Flow Production System in Series," *International Journal of Production Economics*, vol. 54, pp. 87-100, 1998.
- Tan, B., "Variance of the Throughput of an N-station Production Line with No Intermediate Buffers and Time Dependent Failures," *European Journal of Operational Research*, Vol. 101, No. 3, pp. 560-576, 1997.
- Yeralan, S. and Tan, B. "A Station Model for Continuous Materials Flow Production," International Journal of Production Research, Vol. 35, No. 9, pp. 2525-2541, 1997.
- Tan, B. and Yeralan, S., "A Decomposition Model for Continuous Materials Flow Production," *International Journal of Production Research*, Vol. 35, No. 10, pp. 2759-2772, 1997.
- Yeralan, S. and Tan, B., "Analysis of Multistation Production Systems with Limited Buffer Capacity, Part I," *Mathematical and Computer Modelling*, Vol. 25, No. 7, pp. 109-122, 1997.
- Tan, B. and Yeralan, S., "Analysis of Multistation Production Systems with Limited Buffer Capacity, Part II," *Mathematical and Computer Modelling*, Vol. 25, No. 11, pp. 109-123, 1997.
- Tan, B. "Markov Chains and the RISK Board Game," Mathematics Magazine, Vol. 70, No. 5, pp. 349-357, 1997.
- Tan, B. and Yeralan, S., "A Fuzzy Decomposition Method for Multistation Production Systems Subject to Blocking," *International Journal of Production Economics*, Vol. 42, No. 3, pp. 245-262, 1995.
- Tan, B., Yeralan, S., Babu. S, and Osborn, B., "Product Quality/Tool Reliability Modeling of Complex Manufacturing Tools," *Endüstri Mühendisliği/Industrial Engineering Journal* of Turkish Chamber of Engineers, Vol. 5, No. 3, pp. 3-11, 1995.
- Tan, B. and Yeralan, B., "A Unified-Boundary Interior Model for Continuous Materials Flow Production Lines with Station Breakdown," Yöneylem Araştırması Dergisi/Transactions on Operational Research, Vol. 6, No. 2, pp. 95-120, 1994.
- Tan, B., Yeralan, S., Babu. S, and Osborn, B., "Computer-Aided Reliability Modeling and Applications in Semiconductor Manufacturing,", *Computers and Industrial Engineering*, Vol. 23, No. 1-4, pp. 169-172, 1992.

Book Chapters

- 1. Tan, B., Yavuz, Y.*, Otay, E.N., Çamlıbel, E., "Developing a Business Model to Improve Energy Sustainability of Existing Buildings," In: Advances in Business, Operations, and Product Analytics, M. Drake, Pearson/FT Press, 2015 (Reprint of The Case Centre Collection No. 614-074-1).
 - Tan, B., "Modeling and Analysis of Output Variability in Discrete Material Flow Production Systems," In: Handbook of Stochastic Models and Analysis of Manufacturing System Operations, International Series in Operations Research & Management Science Volume 192, 2013, J.M. Smith and B. Tan (editors), pp 287-311, Springer, New York, 2013.

- Tan, B., "Incorporating Harvest, Maturity, Yield, and Demand Risk in Planning for Agricultural Supply Chains for Premium Products," In: Managing Supply Chains on the Silk Road: Strategy, Performance, and Risk, C. Haksöz, S. Seshadari, A.V. Iyer (editors), pp. 239-252, CRC Press, 2011.
- 4. Tan, B., "State-Space Modeling and Analysis of Pull Controlled Production Systems," In: Analysis and Modeling of Manufacturing Systems, S.B. Gershwin, Y. Dallery, C. Papadopoulos, J.M. Smith (editors), Chapter 15, pp. 363-398, Kluwer International Series in Operations Research and Management Science, 2003.
- Tan, B., "Fuzzy Logic Control for Design and Control of Manufacturing Systems," In: Computational Intelligence: Soft Computing and Fuzzy-Neuro Integration with Applications, O. Kaynak, L.A. Zadeh, B. Türkşen, I. Rudas (editors), (NATO ASI Series-Series F. Computer and Systems Sciences; vol. 162), pp. 496-513, Springer-Verlag, 1998.
- Yeralan, S. and Tan, B., "Fuzzy Logic Control as an Industrial Control Language for Embedded Controllers," In: Design and Implementation of Intelligent Manufacturing Systems: From Expert Systems, Neural Networks, to Fuzzy Logic, Hamid R. Parsaei and M. Jamshidi (editors), pp. 107-140, Prentice Hall Inc., 1995.

Other Journal Publications and Book Chapters

- Tan, B., Gershwin, S. B., Liberopoulos, G., Meerkov, S.M., and Papadopoulos, C.T., "Advances in Stochastic Models of Manufacturing and Service Operations," *Annals of Operations Research*, Vol. 231, pp. 1-3, 2015.
- Tan, B., Legitimacy and Future of Business Schools in Turkey, In: Business Schools and their Contribution to Society, M. Morsing and A. Sauquet Rovira (Editors), pp. 49-56, SAGE, 2011.
- Van Woensel, T., Buzacott, J., Gershwin, S.B., Liberopoulos, G., Smith, J.M., Meerkov, S., Tan, B., "Introduction to Special Issue on Advances in Manufacturing Systems," *Annals of Operations Research*, Vol. 182, No. 1, pp. 1-3, 2011.
- 4. Tan, B., "Modelleme ve Model Türleri" (Modeling and Model Types), Türkiye Bilişim Vakfı Bilişim Ansiklopedisi, (Turkish) Informatics Foundation- Encyclopedia of Informatics), T. Ören, T. Üney, R. Çölkesen (editors), Türkiye Bilişim Vakfı, pp. 590-595, 2006.
- 5. **Tan, B.**, Management Education in Turkey, In: A Global Guide to Management Education 2006, Global Foundation for Management Education, pp. 251-256, 2006.
- Liberopoulos, G., Papadopoulos, C.T., Tan, B., Gershwin, S.B., Smith, J.M., Editorial-Stochastic Modeling of Manufacturing Systems: Advances in Design, Performance Evaluation, and Control Issues, pp. V-VIII, Springer, 2006.
- Liberopoulos, G., Papadopoulos, C.T., Tan, B.; Gershwin, S.B., Smith, J.M., "Stochastic Models for the Design, Coordination, and Control of Manufacturing Systems-Preface", OR Spectrum, Vol. 27, No. 2-3, pp. 167-169, 2005.
- Liberopoulos, G., Tan, B., Gershwin, S.B.; Papadopoulos, C.T.; Smith, J.M., "Special issue: Stochastic Models of Production-Inventory Systems, Part I - Preface", Annals of Operations Research, Vol. 125, Issue. 38078, pp. 17-19, 2004.
- Liberopoulos, G., Tan, B., Gershwin, S.B., Papadopoulos, C.T., Smith, J.M., "Special issue: Stochastic Models of Production-Inventory Systems, Part II - Preface", Annals of Operations Research, Vol. 126, Issue. 38078, pp. 17-19, 2004.

Refereed Conference Proceedings

- Gou, Y.X, A. Matta, and Tan, B., "Sample Path-based Method for the Digital Twin Prediction Update Synchronization Problem of Unreliable Production Lines," 2024 IEEE 20th International Conference on Automation Science and Engineering (CASE), Bari, Italy, pp. 2969-2974, 2024.
- Friglio, N. and Tan, B. and A. Matta, "Green Gateways: a Concept and a Framework for Decisions in Circular-Oriented Economies," Proceedings of 31st CIRP Conference on Life Cycle Engineering (LCE 2024), Vol. 122, pp. 617-622, 2024.

- 3. Tan, B. and A. Matta, "Optimizing Digital Twin Synchronization in Finite Horizon," In: Proceedings of the 2022 Winter Simulation Conference, B. Feng, G. Pedrielli, Y. Peng, S. Shashaani, E. Song, C. Corlu, L. Lee, E. Chew, T. Roeder, and P. Lendermann (editors), Institute of Electrical and Electronics Engineers, Piscataway, New Jersey, pp.2924-2935, 2022. (Winter Simulation Conference 2022 Best Theoretical Paper Award Finalist)
- 4. Tan, B., "Global Sourcing and the Competitiveness of the Turkish Textile and Apparel Industries," In: Proceedings of International Conference on Business, Economics and Management ICBME 2005 Volume 2: Organizational Culture, Corporate Governance and Competitiveness C. C. Aktan (editor), pp. 179-199, 2005.
- Tan, B., "Performance Evaluation of Auction-Based Allocation Mechanisms for Cooperation of Manufacturers on Production Capacity," In: Proceedings of the European Simulation and Modelling Conference, P. Geril (editor), pp.415-419, 2003.
- Tan, B. and Otay, E., "A Stochastic Model for Vessel Casualties Resulting from Oil Tanker Traffic through Narrow Waterways," In: Proceedings of the 1998 European Simulation Multiconference, R. Zobel and D. Moeller (editors), pp. 881-885, 1988.
- Tan, B. and Karabatı, S., "Effects of Variability on the Performance of a Production Line Under Cyclic Scheduling," In: Proceedings of the 1997 European Simulation Multiconference, A.R.Kaylan and A.Lehmann (editors), pp. 795-802, 1997 (*European Simulation Multiconference Best Paper Award*).
- Yeralan, S., Tan, B., and Tüfekçi, S. "Emulated Flexible Manufacturing Laboratory," In: Proceedings of the European Simulation Symposium ESS 94, A. R. Kaylan, A.I Lehmann, T. I. Ören (editors), Vol. 1, pp. 196-198, 1994.
- Yeralan, S. and Tan, B., "An Architecture and Language for Fuzzy PLCs," In: Proceedings of 1994 Annual International Conference on Industry, Engineering and Management Systems, p. 167-171, 1994.
- Conference
 1. Tan, B., "Markov Süreçlerinin Yarı Simgesel Çözümü ve Üretim Sistemlerinin Kullanılırlık ve Güvenirlilik Çözümlemesinde Uygulamaları," (Semi-Symbolic Solution of Markov Processes and Applications in Availability/Reliability Analysis of Production Systems), III. Ulusal Ekonometri ve İstatistik Sempozyumu, Bursa, 1997.
 - Yeralan, S. and Tan, B., "Need-Driven Research Opportunities for the Industrial Engineering Profession," In: Proceedings of the UNESCO International Conference on Technology Management: University/Industry/Government Collaboration UNIG '96, pp. 314-319, 1996.
 - Tan, B., "Doğma Olme Benzeri Süreçlerin Matris Polinomları ile Çözümlemesi (Analysis of Quasi Birth and Death Processes with Matrix Polynomials)," II. Ulusal Ekonometri ve İstatistik Sempozyumu, İzmir, 1995.
 - Yeralan, S., Tan, B., Norton, G., and Fadıloğlu, M. "The Impact of Intelligent Machine Tools on Production Operations Management and Control," In: Proceedings of 1995 NSF Design and Manufacturing Grantees Conference, La Jolla California, pp. 301-303, 1995.
 - Yeralan, S., Norton, G., and Tan, B., "Analytical Methods for Agent-Based Materials Handling Systems," In: Proceedings of the 1994 Florida Conference on Recent Advances in Robotics, pp. 240-245, 1994.

Technical Reports

- 1. Stolletz, R. and **Tan, B.**, "When and How to (Mis-)match Supply and Demand: Managing Variable Environments" (February 19, 2024). Available at SSRN: https://ssrn.com/abstract=4735439 or http://dx.doi.org/10.2139/ssrn.4735439
 - Özkan, E. and Tan, B., "Asymptotically Optimal Power Management in a Make-to-Stock Manufacturing System" (February 5, 2023). Available at SSRN: https://ssrn.com/abstract=4348962 or http://dx.doi.org/10.2139/ssrn.4348962

3.	Çelik, B.*, Schwarz, J. A., and Tan, B., "New Product Introductions with Selection of
	Unique and Common Features in Monopoly Markets" (June 15, 2022). Available at SSRN:
	https://ssrn.com/abstract=4323474 or http://dx.doi.org/10.2139/ssrn.4323474

- Çelik, B.*, Schwarz, J. A., and Tan, B., "Product and Price Competition with Selection of Unique and Common Features and Different Quality Levels" (November 9, 2022). Available at SSRN: https://ssrn.com/abstract=4323571 or http://dx.doi.org/10.2139/ssrn.4323571
- G. Gencer^{*}, Altug, S. and Tan, B., "Cyclical Dynamics of Industrial Production and Employment: Markov Chain-based Estimates and Tests," TÜSİAD-Koç University Economic Research Forum Working Paper Series- No. 1101, January 2011.
- Tan, B. and Gershwin, S.B. "Modelling and Analysis of Markovian Continuous Flow Production Systems with a Finite Buffer: A General Methodology and Applications" Massachusetts Institute of Technology, Operations Research Center, Working Paper Series, ORC-381-07, March 2007.
- Tan, B. and Gershwin, S.B. "On Production and Subcontracting Strategies for Manufacturers with Limited Capacity and Volatile Demand," Massachusetts Institute of Technology, Operations Research Center, Working Paper Series, ORC-354-01, May 2001.
- 8. **Tan, B.**, "On Capacity Options in Lean Retailing," Harvard University, Center for Textile and Apparel Research, Research Paper Series, February 2001.
- 9. Tan, B. "Overview of the Turkish Textile and Apparel Industry," Harvard University, Center for Textile and Apparel Research, Research Paper Series, February 2001.

Dissertation and Reports

- 1. Tan, B., A Decomposition Method for Multistation Production Systems, Ph.D. Dissertation, Industrial and Systems Engineering, University of Florida, May 1994.
- 2. Tan, B., A Computerized Alignment System for the Scanning Proton Microprobe, Master's Project, Industrial and Systems Engineering, University of Florida, December 1991.

Academic Advising

Advisor,	
Ph.D. Theses	Burak Çelik (2018-2023), "New Product Introductions with Selection of Unique and Common Features"
	Koç University, PhD in Industrial Engineering and Operations Management
	Current position: Postdoctoral Research Fellow, Aolta University
	First position: Postdoctoral Research Fellow, Univ. of Chinese Academy of Sciences
	Nima Manafzadeh Dizbin (2016-2020),
	"Analysis and Control of Production Systems with Correlated Arrival and Service Times"
	Koç University, PhD in Business Administration, Operations Management
	Current position: Data Scientist, Rabobank
	First position: Postdoctoral Research Fellow, Eindhoven University of Technology
	Siamak Khayyati (2016-2020),
	"Data-driven Control of a Production System by Using Marking-dependent
	Threshold Policy",
	Koç University, PhD in Industrial Engineering and Operations
	Current position: Asst. Professor, HEC-Liège Management School of the Univ. of Liège
	Previous position: Postdoctoral Research Fellow, Mannheim University
	Behnaz Hosseini (2014-2019),
	"Modelling and Analysis of the Cooperative Production and Service Networks"
	Koç University, PhD in Industrial Engineering and Operations Management
	Current position: Supply Chain Designer, Aurizon
	First position: Postdoctoral Research Fellow, National University of Singapore
	Oktay Karabağ (2014-2018),

	"Essays on Modelling and Analysis of the Purchasing Process for a Producer" Koç University, PhD in Industrial Engineering and Operations Management Current position: Asst. Professor, Izmir University of Economics & Erasmus University Rotterdam First position: Postdoctoral Research Fellow, Eindhoven University of Technology
Advisor,	MS in Business Theory, Koç University:
M.S Theses	Nima Manafzadeh Dizbin (2016), "Modelling and Control of Production Systems based on Observed Inter-event Times: An Analytical and Empirical Investigation"
	MS in Industrial Engineering, Koç University:
	 Yahya Yavuz (2013), "Analysis of a Business Model to Offer Energy Saving Technologies as a Service" Gözde Gencer (2010), "Cyclical Dynamics of Industrial Production and Employment: A Markov Chain Approach" Elif Nihan Çömden (2009), "Agricultural Planning Problems with Harvest, Yield and Demand Uncertainty" Figen Helvacioğlu (2009), Co-supervisor (with S. Karabatı), "Multi-product Inventory Control Under Stock-out Based Substitution" Ömer Cem Öztürk (2006), Co-supervisor (with S. Karabatı), "Estimating Stock-out Based Substitution Rates by Using Point-of-Sale Data" Semra Ağrah(2005), Co-supervisor (with F. Karaesmen), "Modeling and Analysis of an Auction-based Logistics Market" Aysun Aker (2005), Co-supervisor (with F. Karaesmen), "Single Period Stochastic Inventory Problem with Downside Risk Considerations" Işil Yıldırım (2004), Co-supervisor (with F. Karaesmen), "Stochastic Production Planning and Sourcing Problems with Service Level Constraints"
Member, Ph.D. Committee	 Bijan Bibak(2025), Koç University, PhD in Industrial Engineering and Operations Management Alara Taşçığlu (2024), Koç University, PhD in Operations Management and Information Systems Seval Ata (2024), Boğaziçi University, PhD in Industrial Engineering Arash Gandomkar Ghalhar (2023 -), Koç University, PhD in Industrial Engineering and Operations Management Christoph Jacobi (2023), Karlsruhe Institute of Technology, PhD in Mechanical Engineering Maria Chiara Magnanini (2019), Politecnico di Milano, PhD in Industrial Engineering, Manufacturing Systems Martin Epp (2017), Karlsruhe Institute of Technology, PhD in Mechanical Engineering Yiğit Altan (2016), Boğaziçi University, PhD in Civil Engineering Ramiz Assaf (2012), Politecnico di Milano, PhD in Industrial Engineering, Manufacturing Systems Emre Çamlıbel (2011), Boğaziçi University, PhD in Civil Engineering
Visiting	Raik Stolletz (2019, 2022), University of Mannheim

Researchers Justus A. S	Schwarz	(2016,	2018),	University	of Mannheim
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	Martin Epp (2016), Karlsruhe Institute of Technology Svenja Lagershausen (2013), Leibniz University Hannover	
Sponsored Research Projects	HORIZON EUROPE - Research and Innovation Actions AUTO-TWIN: Data-driven Method Based on a Process Mining Approach for Automated Digital Twin Generation, Operations, and Maintenance in Circular Value Chains	2022-2025
	TÜBİTAK Design and Implementation of Data-Driven Production, Material Flow, and Energy Mode Control Systems with Energy and Cost Efficiency Considerations in Production Systems	2022-2025
	H2020-ECSEL Research and Innovation Actions and TÜBİTAK Productive 4.0: Electronics and ICT as Enabler for Digital Industry and Optimized Supply Chain Management Covering the Entire Product Lifecycle	2017-2020
	ZER A.S.	2013
	Analysis and Development of Cooperation-based Business Models TÜBİTAK The Determinants of Business Cycles in Turkey and	2010-2012
	in Emerging Market Economies TÜBİTAK A Point-of-Sales Based Method for Estimation of Product Substitution Rates	2006-2009
	and Inventory Control Under Stock-out Based Substitution KÜMPEM: Koç University-Migros Retailing Center Modeling and Analysis of RFID Technology within the Supply Chain	2004-2006
	IBM CORPORATION Computer-Aided Reliability Modeling of Semiconductor Manufacturing Tools	1992-1994
	MICROCHIP TECHNOLOGIES Fuzzy Logic Code Generator for Embedded Controllers	1993-1994
Invited Research Talks	UNIVERSITY OF MANNHEIM: Chair of Production Management SABANCI UNIVERSITY: Industrial Engineering KYOTO UNIVERSITY: Graduate School of Management KAUNAS UNIVERSITY OF TECHNOLOGY: In4Act ERA Chair POLITECNICO DI MILANO: Mechanical Engineering - MeccPhD Lecture KYOTO UNIVERSITY: Graduate School of Management BUDAPEST UNIV. OF TECHNOLOGY AND ECONOMICS: Networked Systems&Service: PEKING UNIVERSITY: Department of Industrial Engineering and Management UNIVERSITY COLLEGE LONDON: School of Management KOBE UNIVERSITY: Graduate School of System Informatics KYOTO UNIVERSITY: Graduate School of Management UNIVERSITY COLLEGE LONDON: School of Management UNIVERSITY COLLEGE LONDON: School of Management UNIVERSITY OF MANNHEIM: Chair of Production Management UNIVERSITY OF CAMBRIDGE: Institute for Manufacturing KOBE UNIVERSITY: Graduate School of Business Administration-SESAMI Seminar KYOTO UNIVERSITY: Graduate School of Management HITACHI YOKOHOMA RESEARCH LAB.: Manufacturing Technology Research Center YAŞAR UNIVERSITY: Department of Industrial Engineering POLITECNICO DI MILANO: Manufacturing and Production Systems Division BILKENT UNIVERSITY: Department of Industrial Engineering MIDDLE EAST TECHNICAL UNIVERSITY: Department of Industrial Engineering MIDDLE EAST TECHNICAL UNIVERSITY: Department of Industrial Engineering MIDDLE EAST TECHNICAL UNIVERSITY: Department of Industrial Engineering MIDDLE EAST TECHNICAL UNIVERSITY: Department of Industrial Engineering MIDDLE FAST TECHNICAL UNIVERSITY: Department of Industrial Engineering MIDDLE FAST TECHNICAL UNIVERSITY: Department of Industrial Engineering MIDDLE FAST TECHNICAL UNIVERSITY: Department of Industrial Engineering MIDDLE FAST TECHNICAL UNIVERSITY: Department of Industrial Engineering MIT: Laboratory for Manufacturing and Productivity	$\begin{array}{c} 2023\\ 2023\\ 2023\\ 2022\\ 2021\\ 2019\\ 2019\\ 2018\\ 2018\\ 2018\\ 2016\\ 2016\\ 2016\\ 2016\\ 2016\\ 2016\\ 2014\\ 2014\\ 2014\\ 2014\\ 2014\\ 2014\\ 2013\\ 2012\\ 2010\\ 2008\\ 2008\\ 2007\\ \end{array}$

CASE WESTERN RESERVE UNIVERSITY: Weatherhead School of Mana	gement 2007
RUTGERSUNIVERSITY: Department of Industrial Engineering	2007
MARMARA UNIVERSITY: Department of Industrial Engineering	2006
MIDDLE EAST TECHNICAL UNIVERSITY: Department of Industrial En	gineering 2006
HEC PARIS: Operations Management	2005
POLITECNICO DI MILANO: Manufacturing and Production Systems Div	vision 2003
TECHNISCHE UNIVERSITEIT EINDHOVEN: Beta Institute	2002
TILBURG UNIVERSITY: Center for Economic Research	2002
BOĞAZİÇİ UNIVERSITY: Department of Industrial Engineering	2002
ÉCOLE CENTRALE PARIS: Laboratoire Productique et Logistique	2002
INSEAD: Technology and Operations Management	2002
SABANCI UNIVERSITY: Manufacturing Systems Engineering	2001
BILKENT UNIVERSITY: Department of Industrial Engineering	2001
BOSTON UNIVERSITY: United Technologies Distinguished Lecturer Ser	
BOSTON UNIVERSITY: Manufacturing Engineering	2001
UNIVERSITY OF FLORIDA: Department of Industrial and Systems Engi	
HARVARD UNIVERSITY: Harvard Center for Textile and Apparel Resea	-
HARVARD UNIVERSITY: Division of Applied Sciences and Engineering	2001
MCGILL UNIVERSITY: Graduate School of Business	2001
MIT: Laboratory for Manufacturing and Productivity	2000
MIDDLE EAST TECHNICAL UNIVERSITY: Department of Industrial En	
BOĞAZİÇİ UNIVERSITY: Department of Industrial Engineering	1993
BILKENT UNIVERSITY: Department of Industrial Engineering	1993
UNIVERSITY OF FLORIDA: Department of Industrial and Systems Engi	
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Conference

Conterence		
Presentations	SMMSO Stochastic Models of Manufacturing and Service Operations, Italy	2024
	EURO Conference, Copenhagen	2024
	CIRP Winter Meeting, Paris (Keynote)	2024
	SMMSO Stochastic Models of Manufacturing and Service Operations, France	2022
	YAEM National Conference of Operational Research and Industrial Engineering	2021
	EURO Conference, Dublin, Ireland	2019
	SMMSO Stochastic Models of Manufacturing and Service Operations, Germany	2019
	INFORMS Annual Meeting, Phoenix, USA	2018
	INFORMS Manufacturing and Service Operations Conference, Dallas, USA	2018
	EURO Stochastic Modelling Conference, Lancaster, UK	2018
	SMMSO Stochastic Models of Manufacturing and Service Operations, Italy (Keynote)	2017
	IIE Annual Conference, USA	2016
	INFORMS Applied Probability Conference, Türkiye	2015
	SMMSO Stochastic Models of Manufacturing and Service Operations, Greece	2015
	IIE Annual Conference, USA	2015
	YAEM National Conference of Operational Research and Industrial Engineering	2015
	EURO Stochastic Modelling Conference, Mannheim, Germany	2014
	INFORMS, San Fransisco, USA	2014
	SMMSO Stochastic Models of Manufacturing and Service Operations, Germany	2013
	INFORMS, Phoenix, USA	2012
	SMMSO Stochastic Models of Manufacturing and Service Operations, Türkiye	2011
	POMS International Meeting, Orlando, USA	2009
	INFORMS San Diego, USA	2009
	BILKENT University Second Annual Workshop on Supply Chain and Logistics, Ankara	2009
	YAEM National Conference of Operational Research and Industrial Engineering	2008
	KYOTO International Conference on Business Groups in Emerging Economies	2007
	INFORMS, Seattle, USA	2007

SMMSO Stochastic Models of Manufacturing and Service Operations, Netherlands	2007	
UNDP Clustering Conference, Istanbul, Türkiye		
AAOM PDW Academy of Management Conference, Philadelphia, USA	2007	
INFORMS International, Puerto Rico		
INFORMS, Pittsburgh, USA	2006	
INFORMS International Conference, Hong Kong	2006	
POMS International Meeting, Boston, USA	2006	
INFORMS Annual Meeting, San Francisco, USA	2005	
SMMSO Stochastic Models of Manufacturing and Service Operations, Greece	2005	
YAEM National Conference of Operational Research and Industrial Engineering	2004	
EUROSIS European Simulation Multiconference, Naples, Italy	2003	
SMMSO Stochastic Models of Manufacturing and Service Operations, Greece	2003	
EURO-INFORMS, Istanbul	2003	
INFORMS, San Jose, USA	2002	
SMMSO Stochastic Models of Manufacturing and Service Operations, Greece	2001	
INFORMS, San Antonio, USA	2000	
EURO, Budapest, Hungary	2000	
YAEM National Conference of Operational Research and Industrial Engineering	2000	
SMMSO Stochastic Models of Manufacturing and Service Operations, Greece	1999	
INFORMS International, Tel-Aviv, Israel	1998	
INFORMS-EURO, Barcelona Spain	1997	
SMMSO Stochastic Models of Manufacturing and Service Operations, Greece	1997	
YAEM National Conference of Operational Research and Industrial Engineering	1996	
IFORS 14th Triennial Conference, Vancouver, B.C., Canada		
INFORMS, Atlanta, USA		
ORSA/TIMS Joint National Meeting, Detroit, USA	1994	

TEACHING ACTIVITIES

Courses Taught	Ph.D. Courses: Stochastic Modelling and Analysis of Production Systems
	EXECUTIVE MBA, MBA, AND UNDERGRADUATE COURSES: Operations Management Design, Planning, and Control of Operations Supply Chain Management Service Operations Management Total Quality Management Management Science Computer Simulation in Business Transform Methods in Systems Engineering
	EXECUTIVE EDUCATION PROGRAMS: Strategy: Doing the Right Thing Right Business Model Innovation Supply Chain Management
Case Studies	Developing a Business Model to Improve Energy Sustainability of Existing Buildings, Koç University Graduate School of Business Case Series, (The Case Centre Collection 614-074-1) (with Otay, E. N., and Çamlıbel, E., and Y. Yavuz, Y.), 2014. (<i>INFORMS Case Award Finalist</i>)
	Zer: The Power of Cooperation, Koç University Graduate School of Business Case Series, (The Case Centre Collection 614-016-1), 2014.

Turkish Airlines: Globally Yours, Balancing Growth, Profitability and Quality, Koç University Graduate School of Business Case Series-OPSM2011-1. (ECCH Collection 612-011-1), (with Z. Akşin-Karaesmen), 2011.

Vestel- Electronics-Transition into the Leading European TV Manufacturer, Koç University Graduate School of Business Case Series- OPSM2005-1. (ECCH Collection 605-015-1),(with S. Karabatı), 2005.

Vestel Durable Goods- Distribution Planning and 3PL Relations, Koç University Graduate School of Business Case Series- OPSM2004-1. (ECCH Collection 604-016-1), (with Z. Akşin-Karaesmen), 2004.

SERVICE ACTIVITIES

IIE TRANSACTIONS, Guest Editor Special Volume on Stochastic Models of Manufacturing Systems OPERATIONS RESEARCH SPECTRUM, Guest Editor Special Volume on Stochastic Models of Production/Inventory Systems ANNALS OF OPERATIONS RESEARCH, Guest Editor	2008 2007 2005 2004	
Professional Journalspean Journal of Operational Research, 4OR, Fuzzy Sets and Systems, Computers and Indus Engineering, Computers in Industry, IEEE Transactions on Automatic Control, IEEE Trans tions on Automation Science and Engineering, IEEE Transactions for Robotics and Automat IIE Transactions, Industrial Engineering Journal of Turkish Chamber of Engineers, INFOU Journal on Computing, International Journal of Production Economics, International Journal of Production Research, International Journal of Systems Science, International Transaction Operational Research, Mathematical and Computational Applications, Mathematical and Computer Modelling, Mathematical Problems in Engineering, Naval Research Logistics, Operational Production Research Logistics, Operational Problems in Engineering, Naval Research Logistics, Operational Problems in Engineering, Naval Research Logistics, Operational Problems in Engineering, Naval Research Logistics, Operational Problems	Annals of Operations Research, Asia-Pacific Journal of Operational Research, Automatica, Euro- pean Journal of Operational Research, 4OR, Fuzzy Sets and Systems, Computers and Industrial Engineering, Computers in Industry, IEEE Transactions on Automatic Control, IEEE Transac- tions on Automation Science and Engineering, IEEE Transactions for Robotics and Automation, IIE Transactions, Industrial Engineering Journal of Turkish Chamber of Engineers, INFORMS Journal on Computing, International Journal of Production Economics, International Journal of Production Research, International Journal of Systems Science, International Transactions in Operational Research, Mathematical and Computational Applications, Mathematical and Com- puter Modelling, Mathematical Problems in Engineering, Naval Research Logistics, Operations Research, Operational Research	
External Review of InstitutionsEQUIS ACCREDITATION2011-Review of InstitutionsChairman of the Peer Review Team 9 schools in Australia, Brazil, Canada, Germany, Japan, Mexico, Singapore, South Africa, South Korea2010-Member of the Peer Review Team 11 schools in Australia, China, Denmark, France, Russia, Sweden, United Kingdom Member of the EQUIS Awarding Body2013-	2022	

Organization	WINTER SIMULATION CONFERENCE 2023 Member of the Program Committee - Simulation as Digital Twin	2023
	INFORMS APPLIED PROBABILITY CONFERENCE	
	Member of the Program Committee	2019
	IFAC CONFERENCE ON MANUFACTURING MODELING, MANAGEMENT, AND CONTRO MIM 2019 Track Chair	DL 2019
	Informs Annual Conference	
	Emerging Topics Chair: Design and Control of Manufacturing Systems	2018
	SMMSO STOCHASTIC MODELS OF MANUFACTURING AND SERVICE OPERATIONS	
		003-present
	EFMD DEANS AND DIRECTORS GENERAL CONFERENCE	0011 0010
	Member of the Advisory Committee	2011-2013
	CEMS STRATEGIC BOARD MEETING	0010 0019
	Member of the Advisory Committee IIE INTERNATIONAL	2012-2013
	Member of the Scientific Committee	2013
	SMMSO STOCHASTIC MODELS OF MANUFACTURING AND SERVICE OPERATIONS	2013
	Conference Chair	2011
	International Conference on Analytical and Stochastic Modeling	2011
	Techniques and Applications	
	Member of the International Program Committee	1998-2010
	EFMD ANNUAL CONFERENCE, Conference Chair	2009
	Euroma Conference	
	Member of the Organizing Committee	2007
	NATIONAL OPERATIONS RESEARCH AND INDUSTRIAL ENGINEERING CONFERENCE	
	YA/EM 2006, Conference Co-chair	2006
	LOGISTICS SUMMIT, Conference Chair	2005
	YAEM National Operations Research and Industrial Engineering Conference	
	Member of the Organizing committee	2004
	IE/OR DOCTORATE STUDENTS COLLOQUIUM, Co-chair	2003
	INTERNATIONAL CONFERENCE ON RESPONSIVE MANUFACTURING	
	Member of the International Program Committee	2002
	YAEM National Operations Research and Industrial Engineering Conference	2000
	Member of the Organizing committee	2000
	EUROPEAN SIMULATION MULTICONFERENCE	2000
	Modeling Organizations and Information Systems Conference, Program Co-chair	2000
	INTERNATIONAL SYSTEMS DYNAMICS CONFERENCE Member of the Organizing Committee	1997
	Member of the Organizing Committee	1997
Other	IN4ACT Webinar Series	2022
Invited	Ford Otosan - KoçDigital Manufacturing AI Day	2022
Talks	TJU, Turkish-Japanese University	2021
	Oman, The Education Council	2019
	PROCTER & GAMBLE Türkiye&Caucasus 2015 Annual Meeting (Keynote)	2015
	XVII. LOGISTICS SUMMIT (Keynote)	2015
	HITACHI LTD, YOKOHOMA RESEARCH LABORATORY	2014
	THE COCA COLA COMPANY Türkiye, Caucasus & Central Asia (Keynote)	2013
	KOÇ HOLDING: Logistics Executives Meeting (<i>Keynote</i>)	2013
	CEVA LOGISTICS Global Business Directors Meeting (<i>Keynote</i>)	2011
	BAHRAIN, Ministry of Industry and Commerce (<i>Keynote</i>)	2006
	VI. LOGISTICS SUMMIT UTIKAD International Freight Forwarders Association Meeting	$\begin{array}{c} 2004 \\ 2004 \end{array}$
	O TINAD International Freight Forwarders Association Meeting	2004

B. Tan

Contribution

to media Monthly page in Capital magazine: 46 articles

2003-2010