Bariş Tan

Office Address

Contact Information Phone: +90-(216)-564-955

Oct. 1990- Sept. 1992

E-mail: baris.tan@ozyegin.edu.tr

Özyeğin University Çekmeköy Kampüsü Nişantepe Mah.

RESEARCH ASSISTANT

Nanoptics Inc.

Orman Sk. 34794 Çekmeköy

Istanbul Türkiye

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

		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
	Boğaziçi 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	-
	Member of the International Advisory Board ISM UNIVERSITY OF MANAGEMENT AND ECONOMICS, Lithuania	2011-2023
	Chairman of the Senate Member of the Senate	2016-2022 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	20	013-2019
	ORACLE, USA	26	
	Member of the Education and Research Industry Strategy Council	20)13-2016
	MINDSPECS, India	20	12 2016
	Member of the Advisory Board	20	013-2016
	Thomson Reuters, USA Member of the Research Analytics Advisory Board	20)13-2015
	EFMD GLOBAL NETWORK	20	713-2013
	Member of the Board	20	013-2014
	CEMS: THE GLOBAL ALLIANCE IN MANAGEMENT EDUCATION	20	710-2014
	Member of the Strategic Board	20	009-2013
	EFMD: EUROPEAN FOUNDATION FOR MANAGEMENT DEVELOPMENT	20	000 2010
	Member of the Board	20	009-2013
	TURKISH CUSTOMER SATISFACTION INDEX		
	Member of the Board of Overseers	20	005-2010
	Turkish Operations Research Society		
	Member of the Board	20	01-2009
	Turkish Society for Quality		
	Member of the Board	20	003-2008
	Turkish Computer Simulation Research Foundation		
	Member of the Board of Trustees	19	997-2003
	SLOAN FOUNDATION INDUSTRY STUDIES PROGRAM		
	Member	2007	-present
	Informs		
	Member	1993	-present
Honors	Omega - Best Paper Award		2024
Awards	WINTER SIMULATION CONFERENCE - BEST THEORETICAL PAPER AWARD	Finalist	2022
Fellowships	Koç University Outstanding Faculty Award President's Award		2021
	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	20	006-2007
	TURKISH ACADEMY OF SCIENCES		2005
	Distinguished Young Scholar Award (TÜBA GEBIP)		2000
	NATO SCIENCE FELLOWSHIP	1000 20	2000
	Koç-Harvard Visiting Scholar	1999, 20	
	EUROPEAN SIMULATION MULTICONFERENCE - BEST PAPER AWARD		1997
	National Collegiate Engineering Award Tübitak Fellowship	16	1994
	I UDITAN I ELLUWSHIP	18	985-1990

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 OPERATIONS, J.M. Smith and B. Tan (editors), International Series in Operations Research & Management Science, Vol. 192, Springer, New York. 2013.

STOCHASTIC MODELING OF MANUFACTURING SYSTEMS: ADVANCES IN DESIGN, PERFORMANCE EVALUATION, AND CONTROL ISSUES, G. Liberopoulos, C.T. Papadopoulos, B. Tan, J.M. Smith, S.B. Gershwin (editors), Springer, Berlin Heilderberg. 2006.

Working Papers

- 1. 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 Mathematical 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 Semiconductor Manufacturing"
- 9. Manafzadeh Dizbin, N.* and **Tan, B.**, "Cyle Time Prediction in Semiconductor Manufacturing"

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," *International Journal of Production Economics*, Vol. 287, No. 109667, 2025.
- Karabağ, O., Karaesmen, F., Tan, B., "Purchasing and Remanufacturing Decisions with Different Quality Returned Material and Finished Goods," *International Journal of Pro*duction Research, Vol. 63, No. 12, pp. 4413-4430, 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.
- Ozkan, E. and Tan, B., "Asymptotically Optimal Energy Consumption and Inventory Control in a Make-to-stock Manufacturing System," European Journal of Operational Research, Vol. 320, No. 2, pp. 375-388, 2024.

^{*}Graduate students

- 5. 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.
- 7. Tan, B. and Matta, A., "The Digital Twin Synchronization Problem: Framework, Formulations, and Analysis," *IISE Transactions*, Vol. 56, No. 6, pp. 652-665, 2024. (Featured article in ISE Magazine, May 2024)
- 8. 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.
- 9. 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. (EJOR Editors' Choice Article, January 2023)
- 11. **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.
- 12. 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.
- 15. 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.
- 17. 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.
- 18. 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.
- 19. Tan, B., "Design of Balanced Energy Savings Performance Contracts," *International Journal of Production Research*, Vol. 58, No. 5, pp. 1401 1424, 2020.
- 20. **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.

- 22. 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.
- 23. 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. (Featured article in ISE Magazine, August 2019)
- 25. 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.
- 26. **Tan, B.** and Lagershausen, S., "On the Output Dynamics of Production Systems Subject to Blocking," *IISE Transactions*, Vol. 49:3, pp. 268-284, 2017.
- 27. 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.
- 28. 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.
- 29. **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.
- 31. **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*)
- 32. **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)
- 33. **Tan, B.** and Karabati, S., "Retail Inventory Management with Stock-Out Based Dynamic Demand Substitution," *International Journal of Production Economics*, Vol. 145, pp. 78-87, 2013.
- 34. 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.
- 35. **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.
- 36. **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.
- 37. **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.
- 38. Gershwin, S.B., **Tan, B.** and Veatch, M., "Production Control with Backlog-Dependent Demand," *IIE Transactions*, Vol. 41, No. 6, pp. 511-523, 2009.

- 39. Özler, A.*, **Tan, B.**, and Karaesmen, F., "Multi-product Newsvendor Problem with Value-at-Risk Constraints," *International Journal of Production Economics*, Vol. 117, No. 2, pp. 244-255, 2009.
- 40. 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.
- 41. 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.
- 42. 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.
- 43. **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.
- 44. 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.
- 45. **Tan, B.** "Subcontracting with Availability Guarantees: Production Control and Capacity Decisions," *IIE Transactions*, Vol. 36, No. 8, pp. 711-724, 2004. (Featured article in ISE Magazine, May 2024)
- 46. **Tan**, **B.** and S. Karabati, "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.
- 47. **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.
- 48. **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.
- 49. **Tan, B.**, "Managing Manufacturing Risks by Using Capacity Options," Journal of the Operational Research Society, Vol. 53, No. 2, pp. 232-242, 2002.
- 50. **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.
- 51. **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.
- 52. **Tan, B.** and Karabati, 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.
- 53. **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.
- 55. **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.

- 56. 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.
- 57. Tan, B. "Agile Manufacturing and Management of Variability," International Transactions in Operational Research, Vol. 5, No. 5, pp. 375-388, 1998.
- 58. 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.
- 59. 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.
- 62. 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.
- 67. **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.
- 70. **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).
- 2. 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.

- 3. 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.
- 5. 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

- 1. **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.
- 3. 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.
- 8. 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.
- 2. Friglio, N. and **Tan, B.** and A. Matta, "Green Gateways: a Concept and a Framework for Decisions in Circular-Oriented Economies," Procedia CIRP, 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.
- 5. 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).
- 8. Yeralan, S., **Tan, B.**, and Tüfekçi, S. "Emulated Flexible Manufacturing Laboratory," In: Proceedings of the European Simulation Symposium ESS 94, A. R. Kaylan, A.l 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 Proceedings

- 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.
- 3. Tan, B., "Doğma Ölme 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
- 2. 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
- 4. 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
- 5. 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"

Koc 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, M.S Theses

MS in Business Theory, Koç University:

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 Cömden (2009),

"Agricultural Planning Problems with Harvest, Yield and Demand Uncertainty" Figen Helvacıoğlu (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 Ağralı (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" Işıl 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 Researchers	Raik Stolletz (2019, 2022), University of Mannheim Justus A. Schwarz (2016, 2018), University of Mannheim 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	2010-2012
	The Determinants of Business Cycles in Turkey and in Emerging Market Economies	
	TÜBİTAK	2006-2009
	A Point-of-Sales Based Method for Estimation of Product Substitution Rates	
	and Inventory Control Under Stock-out Based Substitution	
	KÜMPEM: Koç University-Migros Retailing Center	2004-2006
	Modeling and Analysis of RFID Technology within the Supply Chain IBM CORPORATION	1992-1994
	Computer-Aided Reliability Modeling of Semiconductor Manufacturing Tools	1992-1994
	MICROCHIP TECHNOLOGIES	1993-1994
	Fuzzy Logic Code Generator for Embedded Controllers	
T 1/ 1	Harrier and A. Marrier Ch. (D. 1.4). M	2020
Invited Research	UNIVERSITY OF MANNHEIM: Chair of Production Management	2023
Talks	Sabanci University: Industrial Engineering Kyoto University: Graduate School of Management	2023 2023
Idiks	KAUNAS UNIVERSITY OF TECHNOLOGY: In4Act ERA Chair	2023
	POLITECNICO DI MILANO: Mechanical Engineering - MeccPhD Lecture	2021
	Kyoto University: Graduate School of Management	2019
	BUDAPEST UNIV. OF TECHNOLOGY AND ECONOMICS: Networked Systems&Services	
	Peking University: Department of Industrial Engineering and Management	2018
	University College London: School of Management	2018
	Kobe University: Graduate School of System Informatics	2016
	KYOTO UNIVERSITY: Graduate School of Management	2016
	University College London: School of Management	2016
	University of Mannheim: Chair of Production Management University of Cambridge: Institute for Manufacturing	2015 2014
	Kobe University: Graduate School of Business Administration-SESAMI Seminar	2014
	KYOTO UNIVERSITY: Graduate School of Management	2014
	HITACHI YOKOHOMA RESEARCH LAB.: Manufacturing Technology Research Center	2014
	Yaşar University: Department of Industrial Engineering	2013
	Politecnico di Milano: Manufacturing and Production Systems Division	2012
	BILKENT UNIVERSITY: Department of Industrial Engineering	2010
	MIDDLE EAST TECHNICAL UNIVERSITY: Department of Industrial Engineering	2008
	BİLKENT UNIVERSITY: Department of Industrial Engineering	2008
	MIT: Laboratory for Manufacturing and Productivity	2007

	CASE WESTERN RESERVE UNIVERSITY: Weatherhead School of Management	2007
	RutgersUniversity: Department of Industrial Engineering	2007
	Marmara University: Department of Industrial Engineering	2006
	MIDDLE EAST TECHNICAL UNIVERSITY: Department of Industrial Engineering	2006
	HEC Paris: Operations Management	2005
	Politecnico di Milano: Manufacturing and Production Systems Division	2003
	Technische Universiteit Eindhoven: Beta Institute	2002
	TILBURG UNIVERSITY: Center for Economic Research	2002
	Boğaziçi 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 Series	2001
	Boston University: Manufacturing Engineering	2001
	University of Florida: Department of Industrial and Systems Engineering	2001
	HARVARD UNIVERSITY: Harvard Center for Textile and Apparel Research	2001
	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 Engineering	1997
	Boğaziçi University: Department of Industrial Engineering	1993
	BILKENT UNIVERSITY: Department of Industrial Engineering	1993
	University of Florida: Department of Industrial and Systems Engineering	1993
Conference Presentations		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 2018
	INFORMS Manufacturing and Service Operations Conference, Dallas, USA EURO Stochastic Modelling Conference, Lancaster, UK	2018
	SMMSO Stochastic Models of Manufacturing and Service Operations, Italy (Keynote)	2018
	IIE Annual Conference, USA	2017
	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	2007
AAOM PDW Academy of Management Conference, Philadelphia, USA	2007
INFORMS International, Puerto Rico	2007
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	1996
INFORMS, Atlanta, USA	1996
ORSA/TIMS Joint National Meeting, Detroit, USA	1994

TEACHING ACTIVITIES

Courses Ph.D. Courses:

Taught 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. (INFORMS Case Award Finalist)

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

Editing Flexible Services and Manufacturing, Area Editor	
	2017-2023
Journals IISE Transactions, Associate Editor	
Focus Issue on Design and Manufacturing 2	2017-2023
Annals of Operations Research, Guest Editor	
Special Volume on Stochastic Models of Manufacturing and Service Operations	2015
Annals of Operations Research, Guest Editor	
Special Volume on Stochastic Models of Manufacturing Systems	2008
IIE Transactions, Guest Editor	
Special Volume on Stochastic Models of Manufacturing Systems	2007
OPERATIONS RESEARCH SPECTRUM, Guest Editor	
Special Volume on Stochastic Models of Production/Inventory Systems	2005
Annals of Operations Research, Guest Editor	
Special Volume on Stochastic Models of Manufacturing Systems I and II	2004

Reviewing Professional Journals

Annals of Operations Research, Asia-Pacific Journal of Operational Research, Automatica, European Journal of Operational Research, 4OR, Fuzzy Sets and Systems, Computers and Industrial Engineering, Computers in Industry, IEEE Transactions on Automatic Control, IEEE Transactions 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 Computer Modelling, Mathematical Problems in Engineering, Naval Research Logistics, Operations Research, Operations Research Spectrum, Production and Operations Management, Transactions on Operational Research

External	EQUIS ACCREDITATION	
Review of	Chairman of the Peer Review Team	2011-2022
Institutions	9 schools in Australia, Brazil, Canada, Germany, Japan, Mexico,	
	Singapore, South Africa, South Korea	
	Member of the Peer Review Team	2010-2022
	11 schools in Australia, China, Denmark, France, Russia,	
	Sweden, United Kingdom	
	Member of the EQUIS Awarding Body	2013-2019

Conference Organization Winter Simulation Conference 2023 2023 Member of the Program Committee - Simulation as Digital Twin Informs Applied Probability Conference Member of the Program Committee 2019 IFAC CONFERENCE ON MANUFACTURING MODELING, MANAGEMENT, AND CONTROL MIM 2019 Track Chair 2019 Informs Annual Conference Emerging Topics Chair: Design and Control of Manufacturing Systems 2018 SMMSO STOCHASTIC MODELS OF MANUFACTURING AND SERVICE OPERATIONS Member of the Scientific Committee 2003-present EFMD DEANS AND DIRECTORS GENERAL CONFERENCE Member of the Advisory Committee 2011-2013 CEMS STRATEGIC BOARD MEETING Member of the Advisory Committee 2012-2013 IIE INTERNATIONAL Member of the Scientific Committee 2013 SMMSO STOCHASTIC MODELS OF MANUFACTURING AND SERVICE OPERATIONS Conference Chair 2011 International Conference on Analytical and Stochastic Modeling 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 2002 Member of the International Program Committee YAEM National Operations Research and Industrial Engineering Conference Member of the Organizing committee 2000 EUROPEAN SIMULATION MULTICONFERENCE Modeling Organizations and Information Systems Conference, Program Co-chair 2000 International Systems Dynamics Conference 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) 2015XVII. LOGISTICS SUMMIT (Keynote) 2015 HITACHI LTD, YOKOHOMA RESEARCH LABORATORY 2014 THE COCA COLA COMPANY Türkiye, Caucasus & Central Asia (Keynote) 2013 Koc Holding: Logistics Executives Meeting (Keynote) 2013 CEVA LOGISTICS Global Business Directors Meeting (Keynote) 2011 Bahrain, Ministry of Industry and Commerce (Keynote) 2006 VI. LOGISTICS SUMMIT 2004 UTIKAD International Freight Forwarders Association Meeting 2004

		B. Tan
	V. Logistics Summit (Keynote)	2003
	I. Outsourcing Summit	2002
	MESS Turkish Employers' Association of Metal Industries, Change '97	1997
Contribution		
to media	Monthly page in Capital magazine: 46 articles	2003-2010