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Curriculum Vitae Yavuz Acar

Associate Professor, Department of Management, Bogazici University, <https://mgmt.bogazici.edu.tr/faculty-members>
Director, Joint Excellence in Digital Innovation (JEDI) Business Analytics Research Center, Bogazici University
<https://jedi.bogazici.edu.tr/>
Co-founder, Datafors Artificial Intelligence Inc., <https://datafors.com>
Board Member, Bright Entrepreneurship Center, Bogazici University, <https://entrepreneurship.bogazici.edu.tr/>

1. Education

Sept.2002 – July 2007 University of Houston, Houston, TX
Ph.D in Operations Management (GPA: 3.93 / 4)
Dissertation: Supply Chain Modeling and Forecasting Method Selection

Aug.2000 – May.2002 Texas Tech University, Lubbock, TX
M.B.A., Management Information Systems (GPA: 3.91 / 4)

Sep.1993 – Jun.1997 Yildiz Technical University, Istanbul, Turkey
Bachelor's Degree in Industrial Engineering (GPA: The second best in the program)

2. Research

2.1. Research Areas

Artificial Intelligence
Machine Learning Applications to Business
Forecasting
Simulation Optimization and Hybrid Solution Methodologies
Supply Chain Management
Inventory Control
Project Management
Human Resources Analytics

2.2. Publications

Acar Y., Rodopman B. and Ertem A., Effects of Artificial Intelligence and Automation on the Labor Market, **Under Review**, (SSCI)

Acar Y., Çevikel S. Sökel S. and Rodopman B., Effectiveness of investment incentives through the promotion of entrepreneurial activities, **Under Review**, (SCIE)

Sökel S. and Acar Y., A novel resampling method for cross-validation in machine learning process, **Under Review**, (SCIE)

Acar Y. and Gunter S., Flexibility-Based ABC Classification for Safety Stock Determination in Supply Chains, **Under Review**, (SCI)

Gunter S. and Acar Y., Measuring demand forecasting errors in EOQ environments. **Under Review**, (SSCI)

Rodopman, O. B., Acar, Y., (2024), Startup Ecosystem in Turkiye, Technical Report, Startup20 Program, G20 Forum., **In Progress**.

Rodopman B., Acar Y. and Yozgatlı P., Critical Review of HR Analytics Applications: Theoretical Framework, **In Progress**.

Acar Y. and Yozgatlı P., Elevator Emergency Alert System with Image Processing, **In Progress**.

Acar Y. Bregman R., Gunter S., and Albey E., Project Management under Duration Uncertainties, **in Progress**

Acar, Y., Cetin, O., Rodopman, O. B., Minga, R., & Doguer, H. (2023). Forecasting Demand for Hospital Services: A Managerial Perspective. In Handbook of Research on Quality and Competitiveness in the Healthcare Services Sector (pp. 248-263). **IGI Global**.

Atadeniz, S. N., Acar, Y., and Sridharan, V. (2021). A review of supply chain integration constructs and a framework for future research. **International Journal of Applied Decision Sciences**, 14(2), 151-184.

Gardner, E. S., and Acar, Y. (2018), Fitting the damped trend method of exponential smoothing. **Journal of the Operational Research Society**, 1-5 (SSCI)

Gardner E., and Acar Y. (2016), The Forecastability Quotient Reconsidered, **International Journal of Forecasting**, 32(4),1208-1211 (SSCI)

Acar, Y. and Atadeniz, S., (2016). The impact of supply chain integration on performance: theory and research, Research in the Decision Sciences for the Service Economy: Best Papers from the 2015 Annual Conference. **FT Press. Pearson Education Inc.** 1st Edition, 187-218

Acar Y. nd Gunter S. Measuring forecast errors in manufacturing environment, (2016), **Northeast Decision Science Institute** Conference Proceedings.

Acar, Y., and Atadeniz, S. N. (2015), Comparison of integrated and local planning approaches for the supply network of a globally-dispersed enterprise. **International Journal of Production Economics**.167, 204-219 (SCIE)

Acar, Y., Atadeniz, S. and Zalila, F., (2015), An empirical study of volume and storage flexibility in a global supply chain. Research in the Decision Sciences for Innovations in Global Supply Chain Networks: Best Papers from the 2014 Annual Conference. **FT Press. Pearson Education Inc.**

Atadeniz, S. and Acar, Y., (2015), Supply Chain Integration and Performance, Research in the Decision Sciences for Global Business: Best Papers from the 2013 Annual Conference. **FT Press. 1st Edition, Pearson Education Inc.** 295-320

Acar, Y., (2015), Butunlesik Tedarik Zinciri Yonetiminde Matematiksel Modeller, IV. **Ulusal Lojistik ve Tedarik Zinciri Kongresi (ULTZK)** bildiri kitabı.

Acar, Y. (2014), Forecasting Method Selection Based on Operational Performance. **Boğaziçi Journal: Review of Social, Economic and Administrative Studies**, 28(1), 95-114

Acar, Y., and Gardner, E. S. Jr., (2012), Forecasting method selection in a global supply chain, **International Journal of Forecasting**, 28(4), 842–848 (SSCI)

Acar, Y., Kadipasaoglu, S.N, Gunter, S. (2011) Flexibility-based ABC Classification for Service Level Determination in a Supply Chain,, **Decision Science Institute Conference Proceedings**.

Acar, Y., Kadipasaoglu, S.N., (2011) An Empirical Study of Volume And Storage Flexibility In A Global Supply Chain, 2011, **Southwest Decision Science Institute Conference Proceedings**.

Acar, Y., Kadipasaoglu, S., and Schipperijn, P., (2010), A decision support framework for global supply chain modeling: an assessment of the impact of demand, supply, and lead-time uncertainties on performance, **International Journal of Production Research**, 48(11), 3245-3268. (SCI)

Acar, Y., Kadipasaoglu, S.N., Albey, E. (2010), An Empirical Study Of Supply Chain Flexibility in a Global Supply Chain: Central vs Distributed Decision Making, **Decision Science Institute Conference Proceedings**.

Acar, Y., Kadipasaoglu, S.N., (2010), Comparison of Bootstrap Simulation and Traditional Approach to Safety Stock Calculation, **Decision Science Institute Conference Proceedings**.

Acar, Y., Kadipasaoglu, S.N., Gardner , E. S. Jr., (2009) Evaluating Operational Performance of Forecast Methods in a Specialty Chemical Supply Chain Using Trade-Off Curves, **Decision Science Institute Conference Proceedings**.

Acar, Y., Kadipasaoglu, S.N., Day, J., February (2009), A general approach for incorporating uncertainty in optimal decision making: iterative use of MIP and simulation in solving combinatorial problems, **Computers and Industrial Engineering**, 56(1),106-112 (SCI)

Acar, Y., Kadipasaoglu, S.N. and P. Schipperijn, (2005), The Integration of Supply Chain Optimization and Simulation to Understand the Relationship of Inventory and Service Level of a Specialty Chemicals Company, **Decision Science Institute Conference Proceedings**.

3. Selected Industry Projects

Fostering Optimal Regulatory Compliance for Cryptocurrencies: An Interdisciplinary Approach – FORCE, Call: HORIZON-MSCA-2024-SE-01-01, Status: Ongoing (Grant agreement signed on July 2025)

Predicting urban development from satellite images, 2024-2025, Tubitak- Bilgem.

Geospatial Analytics Applications - Transformer Location and Capacity Optimization, 2023-2025, Tubitak, GDZ Electricity Distribution Inc.

Energy Demand Prediction Using Machine Learning, 2024-2025, GDZ Electricity Distribution Inc.

Elevator Emergency Alert System with Image Processing, 2023-2024, EKA Elevators Inc.

Intelligent Open Data Platform, 2023, Turkish Ministry of Environment, Urbanization, and Climate Change

Predictive Analytics for the Investment Incentive System in Turkiye, 2021-2022, Turkish Ministry of Industry and Technology.

HR Analytics - Application of Machine Learning Algorithms to the Recruitment System, 2020, UFS Facility Services Inc.

Machine Learning Based Forecasting Grocery Demand, 2021, Hakmar Grocery Inc.

Overseas Distribution Optimization Project, 2019, LC Waikiki Inc.

Forecasting Module Development for Nebim ERP System, 2010, Nebim Inc.

Production and Distribution Optimization, 2006, Chevron, Oronite

Project Applications in Progress

Motion AI Sandbox: European Excellence Initiative, Call: HORIZON-WIDERA-2025-01-ACCESS-01 (European Excellence Initiative)

Pioneering Advanced Training and Harmonization in AI Ethics, Erasmus+ KA220 HED, March 2025

4. Teaching

Sept.2007 – Present Boğaziçi University Istanbul, Turkey

ADEX 573 - Data Science for Business (Graduate)

ADEX 572 - Industry 4.0 (Graduate)

ADEX 525- Managerial Statistics (Graduate)

ADEX 574- Management Information Systems (Graduate)

ADEX 549- Operations Management (Graduate)

ADEX 556- Supply Chain Management (Graduate)

AD 551- Introduction of Theories of Operations Management (Graduate)

AD 452- Management Information Systems (Undergraduate)

AD 351- Operations Management (Undergraduate)

AD 352- Management Science (Undergraduate)

AD 457- Business Logistics (Undergraduate)

AD 456- Business Forecasting (Undergraduate)

Sept. 2023 Sorbonne University Paris. France

Strategic Management of Information Systems, Executive MBA

Sept.2002 – May 2007 University of Houston Houston, TX

DISC 7397- Supply Chain Management (Graduate)

DISC 7397- Enterprise Resource Planning (Graduate)
DISC 4361- Supply Chain Management (Undergraduate)
DISC 4397- Enterprise Resource Planning. (Undergraduate)
DISC 3301- Service and Manufacturing Operations (Undergraduate)
DISC 4365- Business Forecasting (Undergraduate)

Aug.2001 – May.2002 Texas Tech University Lubbock, TX
ISQS 2340- Introduction to Computers in Business (Undergraduate)

5. Administration/Services

Member of Organization Committee, Startup20 Vision Meeting in Turkiye, (July, 2024) - Startup20 is an official engagement group within G20 focused on improving startup ecosystems globally.

Moderator of the Workshop on Responsible AI in Startup Ecosystem, Startup20 Meeting, (July, 2024)

Member of Organization Committee, Entrepreneurship amidst 21st Century Challenges: Business-Government Relations, Istanbul conference jointly organized with Ozmen Entrepreneurship Center at the University of Nevada, Reno.

Member of faculty board of directors, Faculty of Economics and Administrative Sciences, (2023 – Present)

Director, Joint Excellence in Digital Innovation (JEDI) Business Analytics Research Center, Bogazici University (2023 – Present)

Board Member, Bright Entrepreneurship Center, Bogazici University (2021 – Present)

Member of Reviewer Board for Technology Startups, AI Factory Initiative, Turkiye İşBank (2023 – Present)

Director of HR Analytics Research Group, JEDI Business Analytics Research Center, Bogazici University (2022 – Present)

Student advisor, Bogazici University (2008 – Present)

Management Minor Coordinator, Bogazici University (2013 - Present)

Local Coordinator of the Annual Conference of the European Decision Sciences Institute (EDSI), June 24-27, 2012 in Istanbul, Turkey

Local Coordinator of the WITOR-09 -Joint Workshop of the Turkish and Israeli Operation Research Societies in Istanbul, September 6-8, 2009

Member, Publication Award Committee, Bogazici University (2010-Present)

Member, Undergraduate Transfer Committee, Bogazici University (2010-Present)

YK Computer Lab Coordinator, Bogazici University (2007 – 2016)

Member, Department of Management Mission Statement, Strategic Plan and Processes committee, Bogazici University (2011 – 2014)

Member, Alumina Relationship Committee, Bogazici University (2012 – 2015)

Member, AACSB Accreditation Integration Team, Bogazici University (2010-2014)

Member, Departmental Publication Support Committee (2010-2011)

Departmental Webmaster, Bogazici University (2008 – 2010)

6. Work Experience

June 2019– Present Datafors Artificial Intelligence Inc., Istanbul, Turkey
Co-founder & Board member

Jan 2007 – Present Boğaziçi University, Istanbul, Turkey
Associate Professor in Department of Management

Sept.2002 – May 2007 University of Houston, Houston, TX
Instructional Assistant and Teaching Fellow in Decision & Information Sciences Department

Aug.2001–May.2002 Texas Tech University, Lubbock, TX
Teaching Assistant in Information Systems & Quantitative Sciences Department

Oct.2000–Aug.2001 Texas Tech University, Lubbock, TX
Computer technician in Information Technology Service Department

Jun.1997–Sep.1999 Gürünlüler Textile, Istanbul, Turkey
Production manager:
Coordinated all production activities.
Established a new quality control and production control systems.
Suggested and implemented a novel material movement system, which resulted in a 30% increase in productivity.
Designed and installed an Access database for inventory control.

Jun.1996–July.1996 Zorlu Textile, Istanbul, Turkey
Six week internship involving applications of Industrial Engineering.
Actively involved in a quality improvement project, which earned the company ISO 9001 certification.

7. Awards

Teaching Award, 2021-2022, Faculty of Economics and Administrative Sciences, Bogazici University

SD² Project Award, 2022, TUSIAD Digital Transformation Program in Industry, Turkiye

The Best Paper Award, 2013, European Decision Sciences Institute (EDSI), Hungary.

Research Support Award, 6 times between 2010 – 2024, Bogazici University, Istanbul, Turkey

Academic Incentive Award, 4 times between 2010 – 2017, Management Department, Bogazici University, Istanbul

Ranked 2nd in Industrial Engineering Program, 1997, Yildiz Technical University, Istanbul