Abdullah YILDIZBASI

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Current Employment

Clinical Associate Professor of Management Science (08/2025 - present)
College of Business, Department of Information Systems, Supply Chain and Analytics,
University of Alabama in Huntsville

Background

1. Education

Ph.D.	**Eskisehir Osmangazi University,** Turkey Major: Industrial Engineering. *PhD Thesis: "A Mathematical Model for Green Supply Chain Management Implementation in the Automotive Industry, applying Interactive Fuzzy Programming and a Hybrid Genetic Algorithm Solution Approach."*	2015
M.Sc.	**Syracuse University,** United States of America Major**:** Engineering Management.	2010
B.Sc.	**Selcuk University**, Turkey Major**:** Industrial Engineering	2006

2. Teaching Experience

Clinical Associate Professor, The University of Alabama in Huntsville, College of Business	2025 – Present
Assistant Teaching Professor, Worcester Polytechnic Institute, Business School	2024 – 2025
Adjunct Teaching Professor, Worcester Polytechnic Institute, Business School	2022 – 2024
Assistant Professor, Ankara Yildirim Beyazit University, Engineering Faculty, Industrial Engineering Dept., Turkey	2016 – 2023
Adjunct Teaching Professor, TOBB Economy and Technology University, Engineering Faculty, Industrial Engineering Dept., Turkey	2018 – 2020

3. Work Experience other than Teaching

Postdoc Fellow, Worcester Polytechnic Institute, Business School	08/01/2022 – 04/15/2023
International Visiting Scholar, Worcester Polytechnic Institute, Business School	09/01/2021 – 01/11/2022
Consultant, Ankara, Turkey	07/01/2016 – 08/15/2023
Visiting Researcher, Kingston University, Business School, UK	06/15/2015 – 09/15/2015
Research Assistant, Ankara Yildirim Beyazit University, Turkey	02/09/2012 – 06/15/2016
Industry Consultant on Lean Manufacturing, Ankara, Turkey	07/11/2010 – 02/08/2012
Production Planning Engineer, Enkomak Bakery Machinery Co, Konya, Turkey	01/15/2008 – 08/15/2008

4. Courses Taught

Between 2016 and 2025, I taught various courses at three different universities across different levels.

Teaching Evaluations	
Course ID, Title (Level)	**Semester/Term – Format (# of students)**
OIE544- Supply Chain Analysis and Design ***(Graduate)***	Fall 2024 – H* 30
OIE2081 - Introduction to Prescriptive Analytics ***(Undergraduate)***	Fall 2024 – F* 20
OIE501- Operations Management ***(Graduate)***	Summer 2024 – OS* 17
OIE3410 - Materials Management in Supply Chains ***(Undergraduate)***	Spring 2024 – F* 19
OIE3410 - Materials Management in Supply Chains ***(Undergraduate)***	Spring 2025 – F* 15
OIE2081 - Introduction to Prescriptive Analytics ***(Undergraduate)***	Spring 2025 – F* 19
OIE2081 - Introduction to Prescriptive Analytics ***(Undergraduate)***	Spring 2024 – F* 25
IE509: Operations Management ***(Graduate)***	Fall 2020 – OS* 12
IE610 - Advanced Supply Chain Management ***(Graduate)***	Spring 2021 – F* 4
IE512- Supply Chain Management ***(Graduate)***	Spring 2021 – F* 12
MCE 311/IE347: Engineering Economy ***(Undergraduate)***	Fall (2016, 2017, 2018, 2019) – F*
IE322 – Logistic Management ***(Undergraduate)***	Fall 2019 – F* Fall 2020 – OS*
IE512- Human Relations Management	Spring 2019 – F*

(Undergraduate)	Spring 2020 – OS*
IE351 – Production Planning and Control ***(Undergraduate)***	Fall 2020 – OS*
END202 - Method Analyses and Design ***(Undergraduate)***	Fall 2018 - F 84
	Fall 2019 - F 94
END471: Production Information Systems ***(Undergraduate)***	Summer 2020 – F & OS 111
* ***Notes***: *F:* Face-to-face, *OS:* Online Synchronous, *OA*: Online Asynchronous, *H:* Hybrid *OIE:* Operations and Industrial Engineering, *IE:* Industrial Engineering	

5. Academic Advising: Number of Advisees

12 Undergraduate	4 Graduate	2020 - 2021
6 Undergraduate	8 Graduate	2019 - 2020
	12 Graduate	2018 - 2019
	12 Graduate	2017 - 2018

6. Publications

Peer-Reviewed Journal Articles

RJ1. Arioz, Y., Yilmaz, I., & **Yildizbasi, A.** (2025). Unlocking circularity: A stakeholder theory approach to the 10Rs in the solar PV supply chain. *Renewable Energy*, 123254.

RJ2. **Yildizbasi, A.,** Celik, S.E., Arioz, Y., Chen, Z., Sun, L., Ozturk, C. (2025). Exploring the Synergy between Circular Economy and Emerging Technologies for Transportation Infrastructure: A Systematic Literature Review. *Journal of Cleaner Production*, Volume 486, 144553, https://doi.org/10.1016/j.jclepro.2024.144553.

RJ3. Chen, Z., Sarkis, J., & **Yildizbasi, A.** (2025). Integrating Generative AI into Circular Supply Chain Safety Management: A Forward-Looking Perspective. *IEEE Engineering Management Review*.

RJ4. Chen, Z., Sarkis, J., & **Yildizbasi, A. (**2024). Digital transformation for safer circular lithium-ion battery supply chains: a blockchain ecosystem-data perspective. *International Journal of Production Research*, 1-22.

RJ5. Arıöz, Y., **Yildizbasi A.,** Özceylan, E., & Yılmaz, İ. (2024). Systematic literature review based on the descriptive, bibliometric, and content analysis of renewable energy supply chain for a circular economy. *Journal of Renewable and Sustainable Energy*, *16*(2).

RJ6. Chen, Z., **Yildizbasi, A.,** Wang, Y., & Sarkis, J. (2023). Safety in Lithium-ion Battery Circularity Activities: A Framework and Evaluation Methodology, *Resources, Conservation & Recycling*, 193, 106962.

RJ7. Chen, Z., **Yildizbasi, A.,** & Sarkis, J. (2023). How Safe is the Circular Economy? *Resources, Conservation and Recycling,* 188, 106649.

RJ8. Chen, Z., **Yildizbasi, A.,** Wang, Y., & Sarkis, J. (2022). Safety Concerns for the Management of End-of-Life Lithium-Ion Batteries. *Global Challenges*, 2200049.

RJ9. Mangla, S. K., Kazançoğlu, Y., **Yildizbasi, A.,** Öztürk, C., & Çalık, A. (2022). A Conceptual Framework for Blockchain-Based Sustainable Supply Chain and Evaluating Implementation Barriers: A Case of the Tea Supply Chain. *Business Strategy and the Environment*, https://doi.org/10.1002/bse.3027.

RJ10. **Yildizbasi, A.,** & Arioz, Y. (2022). Green supplier selection in new era for sustainability: A novel method for integrating big data analytics and a hybrid fuzzy multi-criteria decision making. *Soft Computing*, 26, 253 – 270, https://doi.org/10.1007/s00500-021-06477-8.

RJ11. **Yildizbasi, A.** (2021). Blockchain and Renewable Energy: Integration Challenges in Circular Economy Era. *Renewable Energy*. 176, 183-197.

RJ12. **Yildizbasi, A.,** & Arioz, Y. (2021). A novel hybrid network optimization model for printed circuit boards recycling: a circular economy perspective. *Clean Technologies and Environmental Policy*, 23, 2989 – 3013.

RJ13. **Yildizbasi, A.,** Öztürk, C., Efendioğlu, D., Bulkan, S., 2020, Assessing the social sustainable supply chain indicators using an integrated fuzzy multi-criteria decision-making methods: a case study of Turkey. *Environment Development and Sustainability*. 23, 4285 – 4320

RJ14. Lu, X., Kanghong, D., Guo, L., Wang, P., & **Yildizbasi, A**., 2020, Optimal estimation of the Proton Exchange Membrane Fuel Cell model parameters based on extended version of Crow Search Algorithm. *Journal of Cleaner Production*, 272, 122640.

RJ15. Öztürk, C., **Yildizbasi, A**., 2020, Barriers to implementation of blockchain into supply chain management using an integrated multi-criteria decision-making method: a numerical example. *Soft Computing*, *https://doi.org/10.1007/s00500-020-04831-w*

RJ16. Yuan Z., Wang W., Wang, H., **Yildizbasi, A.,** 2020, Allocation and sizing of battery energy storage system for primary frequency control based on bio-inspired methods: A case study, *International Journal of Hydrogen Energy, https://doi.org/10.1016/j.ijhydene.2020.05.013*

RJ17. Rouyendegh, B.D., **Yildizbasi, A.** & Yilmaz, I. 2020, Evaluation of retail industry performance ability through integrated Intuitionistic Fuzzy TOPSIS and Data Envelopment Analysis approach. *Soft Computing*, *https://doi.org/10.1007/s00500-020-04669-2*

RJ18. Yuan Z., Wang W., Wang, H., **Yildizbasi, A.,** 2020, Developed Coyote Optimization Algorithm and its application to optimal parameters estimation of PEMFC model*, Energy Reports,* 6, 1106-117. *https://doi.org/10.1016/j.egyr.2020.04.032*

RJ19. Bao, S., Ebadi, A., Toughani, M., Dalle, J., Maseleno, A., Baharuddin, **Yildizbasi, A.,** 2020, A new method for optimal parameters identification of a PEMFC using an improved version of Monarch Butterfly Optimization Algorithm, *International Journal of Hydrogen Energy, https://doi.org/10.1016/j.ijhydene.2020.04.256*.

RJ20. Cao, Y., Kou, X., Wu, Y., Jermsittiparsert, K., **Yıldızbaşı, A.,** PEM fuel cells model parameter identification based on a new improved fluid search optimization algorithm, *Energy Reports,* 6, 813 – 823. *https://doi.org/10.1016/j.egyr.2020.04.013*

RJ21. Rouyendegh, B.D., **Yildizbasi, A.**, Üstünyer, P., 2020, Intuitionistic Fuzzy TOPSIS Method for Green Supplier Selection Problem, *Soft Computing*, 24, 2215-2228, *https://doi.org/10.1007/s00500-019-04054-8*

RJ22. Yuan Z., Wang W., Wang, H., **Yildizbasi, A.,** 2020, A new methodology for optimal location and sizing of battery energy storage system in distribution networks for loss reduction, *Journal of Energy Storage*, 29, 101368*. https://doi.org/10.1016/j.est.2020.101368*

RJ23. Chen, S., Wang F., **Yildizbasi, A.**, 2020, A new technique for optimising of a PEMFC based CCHP system, *International Journal of Ambient Energy*, *https://doi.org/10.1080/01430750.2020.1758781*

RJ24. **Yildizbasi, A.**, Çalık, A., Paksoy, T., Farahani, R. Z., Weber, G. W., 2019, Multi-Level Optimization of an Automotive Closed-Loop Supply Chai n Network with Interactive Fuzzy Programming Approaches, *Technological and Economic Development of Economy*, 24(3), 1004-1028, *https://doi.org/10.3846/20294913.2016.1253044*.

RJ25. **Yildizbasi, A.**, Rouyendegh D. B., 2018, Multi-criteria decision making approach for evaluation of the performance of computer programming languages in higher education, *Computer Applications in Engineering Education*, 1-10.

RJ26. Çalık, A., Paksoy, T., **Yildizbasi, A.**, Pehlivan, N. Y., 2017, A Decentralized Model for Allied Closed-Loop Supply Chains: Comparative Analysis of Interactive Fuzzy Programming Approaches, *International Journal of Fuzzy Systems,* 19(2), 367-382., *https://doi.org/10.1007/s40815-016-0167-z*.

Refereed Conference Proceedings

RC1. Chen, Z., Sarkis, J., **Yildizbasi A.,** 2024, "Identifying Stakeholder Roles in Blockchain Applications for Safety in Circular Supply Chains", *55th DSI Annual Conference*.

RC2. Arioz, Y., **Yildizbasi,** Sarkis, J., 2024, "Poverty Alleviation through Solar Energy Systems: Bridging Gaps for a Sustainable Future", INFORMS Annual Meeting

RC3. Arioz, Y., **Yildizbasi, A.,** Yilmaz, I., 2024, "Circular Economy in Solar PV: Analyzing the 10Rs through Stakeholder Theory", INFORMS Annual Meeting

RC4. Chen, Z., Sarkis, J., **Yildizbasi A.,** 2024, "Enhancing safety in circular supply chains: The strategic role of product deletion", 34th Annual POMS Conference.

RC5. Celik, S.E., **Yildizbasi A.,** Sarkis, J., 2024, "Can Circular Economy Mitigate Natural Resource Dependence? The Case of Cobalt for LIBs", 34th Annual POMS Conference.

RC6. Chen, Z., Sarkis, J., **Yildizbasi A.,** 2024, "Assessing consumer preferences for blockchain supported safety in closed-loop supply chains", 34th Annual POMS Conference.

RC7. **Yildizbasi, A.,** Öztürk, C., Saberi, S., 2023, "Additive Manufacturing as a Catalyst for Supply Chain Resilience: An Empirical Analysis", *54th DSI Annual Conference*.

RC8. Celik, S.E., Sarkis, J., **Yildizbasi, A.,** 2023, "Exploring Circular Economy Practices for Mitigating Natural Resource Dependence in the Electric Vehicle Battery Industry", *54th DSI Annual Conference.*

RC9. Zhuowen, C., **Yildizbasi, A.,** Sarkis, J., 2023, "Circular Supply Chain Stakeholder Mapping for Blockchain Governance of Lithium-ion Battery Safety", *Academy of Management Proceeding, 18836.*

RC10. **Yildizbasi, A.,** Qngyun, Z., Kouhizadeh, M., Sarkis, J., 2023, "Product Portfolio Rationalization for Supply Chain Circularity and Risk Mitigation", *54th DSI Annual Conference.*

RC11. Chen, Z., **Yildizbasi, A.,** Wang, Y, Sarkis, J., 2023, "A Blockchain Ecosystem for Safer Circular Lithium-ion Battery Supply Chains: A Performance-based Theoretical Perspective", *54th DSI Annual Conference.*

RC12. Chen, Z., **Yildizbasi, A.,** Wang, Y, Sarkis, J., 2023, "Blockchain-based lithium-ion battery closed-loop supply chain safety passport", *Northeast Decision Sciences Institute Annual Conference.*

RC13. Chen, Z., **Yildizbasi, A.,** Sarkis, J., 2023, "Safety in Lithium-ion Battery Circular Activities: Safe Return to a Sustainable World", *33rd Annual POMS-Conference.*

RC14. Chen, Z., **Yildizbasi, A.,** Sarkis, J., 2023, "Stakeholder engagement in blockchain development: The case of governing lithium-ion battery circular supply chain safety", *33rd Annual POMS-Conference.*

RC15. Polat, L., Erdebilli, B., **Yıldızbaşı, A.** 2022, "Measuring the Efficiency of Turkish Energy Distribution Companies Using Data Envelopment Analysis", *In International Conference on Science, Engineering Management and Information Technology,* 97-110. Cham: Springer Nature Switzerland.

RC16. **Yildizbasi, A.,** Öztürk, C., Yılmaz, İ., & Arıöz, Y., 2021, "Key Challenges of Lithium-Ion Battery Recycling Process in Circular Economy Environment: Pythagorean Fuzzy AHP Approach", *In International Conference on Intelligent and Fuzzy Systems,* Springer, Cham, 561-568. [Cited by=5]

RC17. Öztürk, C., **Yildizbasi, A.,** Yilmaz, I., & Ariöz, Y., 2021, "Vaccine Selection Using Interval-Valued Intuitionistic Fuzzy VIKOR: A Case Study of Covid-19 Pandemic", *In International Conference on Intelligent and Fuzzy Systems,* Springer, Cham, 101-108. [Cited by=3]

RC18. Arıöz, Y., Yılmaz, I., **Yildizbasi, A.,** & Öztürk, C., 2021, "Big Data-Driven in COVID-19 Pandemic Management System: Evaluation of Barriers with Spherical Fuzzy AHP Approach", *In International Conference on Intelligent and Fuzzy Systems,* Springer, Cham, 811-818. [Cited by=2]

RC19. Yilmaz, I., Arioz, Y., Ozturk, C., & **Yildizbasi, A.,** 2021, "Hospital Type Location Allocation Decisions by Using Pythagorean Fuzzy Sets Composition: A Case Study of COVID-19", *In International Conference on Intelligent and Fuzzy Systems,* Springer, Cham, 589-597.

RC20. Rouyendegh D. B., **Yildizbasi, A.,** Ozturk, M., 2018, "A TOPSIS with Intuitionistic Fuzzy Sets and DEA Approach to Evaluate Retail Industry Performance Ability", *in Emrouznejad and Thanassoulis (eds.), Data Envelopment Analysis and Performance Measurement: Recent Developments: Proceedings of the DEA40: International Conference of Data Envelopment Analysis, Aston Business School, UK*, 23-27, ISBN: 978 1 85449 438 2.

RC21. Yildizbasi, A., Çalık, A., Paksoy, T., 2017, "Comparison of City Sustainability Performances with a Hybrid Fuzzy Multi-Criteria Decision-Making Method: A Case Study of Turkey", *International Conference on Operations Research*, pp. 68.

RC22. Çalık, A., Yildizbasi, A., Paksoy T., Kumpf, A., 2017, "An Integrated Approach for Assessment of Green Suppliers with Interval Type-2 Fuzzy Sets", *International Conference on Operations Research*, pp. 11.

RC23. Paksoy T., Çalık, A., Yildizbasi, A., Kumpf, A., 2017, A Mixed-Integer Programming Model for Green Location and Transportation in a Closed-Loop Supply Chain, *International Conference on Operations Research*, pp. 53.

RC24. Çalık, A., **Yildizbasi**, A., Paksoy, T, Pehlivan, N. Y., 2015, A Multi-Level Linear Programming Approach for Optimizing a Closed-Loop Supply Chain with MCDM Methods, *23rd International Conference on Multiple Criteria Decision Making-MCDM*, August 2nd-7th, Hamburg, Germany, Abstract Book, pp. 5.

RC25. Paksoy, T., Çalık, A., **Yildizbasi, A.**, Pehlivan, N. Y., 2015, A Fuzzy Analytic Hierarchy Process Based Approach for a Multi-Objective Multi-Level Closed-Loop Supply Chain Model, *23rd International Conference on Multiple Criteria Decision Making-MCDM*, August 2nd-7th, Hamburg, Germany, Abstract Book, pp. 4

RC26. **Yildizbasi, A.**, Paksoy, T., Gökçen, H., Yüzügüllü, N., 2014, Multi-Criteria Decision Making for Recycling Planning in the Automotive Industry, *20th Conference of the International Federation of Operational Research Societies IFORS,* July 13-18, pp 147, Barcelona, Spain, Abstract Book, pp. 55.

RC27. **Yildizbasi, A**., Özceylan, E., Paksoy, T., 2013, "Fuzzy mathematical programming approaches to the integration of reverse supply chain optimization and disassembly line balancing problems", *26th European Conference on Operational Conference*, July 1-4, Rome, Italy, Abstract Book, pp. 65.

Book Chapters

BC1. **Yildizbasi, A.,** & Sarkis, J. (2024). Blockchain Technology for Automobile Manufacturing. In *Blockchain Technology in the Automotive Industry* (pp. 52-67). CRC Press.

BC2. Öztürk, C., Chen, Z., & **Yildizbasi, A.** (2023). The Lithium-Ion Battery Supply Chain. In *The Palgrave Handbook of Supply Chain Management* (pp. 1-19). Cham: Springer International Publishing.

BC3. Paksoy, T., Çalık, A., **Yildizbasi, A.,** Huber, S., (2019). Risk Management in Lean & Green Supply Chain: A Novel Fuzzy Linguistic Risk Assessment Approach. In *Lean and Green Supply Chain Management* (pp. 75-100). Springer International Publishing Switzerland. [Cited by=29]

Manuscripts Under Review:

UR1. **Yildizbasi A.,** Ozturk C., Saberi, S., (2024). Impact of Additive Manufacturing on Supply Chain Resilience. Submitted to *International Journal of Production Research* (Under Review)

UR2. Chen, Z., **Yildizbasi, A.,** & Sarkis, J. (2024). Digital Transformation for Safer Circular Lithium-ion Battery Supply Chains: A Blockchain Ecosystem-Data Perspective. Submitted to *International Journal of Production Economics* (Under Review)

UR3. **Yildizbasi, A.,** Arıoz Y., (2022). Sustainable Supplier Selection Based on an Integrated Fuzzy SWARA and Intuitionistic Fuzzy TOPSIS Approach with Big Data Analytics. Submitted to *Computers & Industrial Engineering* (With Editor)

Manuscripts in Preparation

WP1. **Yildizbasi, A.,** Kouhizadeh, M., & Sarkis, J. (2024). Product Deletion in a Circular Economy Setting: Strategic Supplier Segmentation and Development. Targeted for *International Journal of Production Economics*

WP2. Saberi, S., Sarkis, J., Fan, W., **Yildizbasi, A.,** Sayarshad, H.R., (2024). Exploring manufacturer agile characteristics necessary to address economic and social disruptions: Learning from the COVID crisis. Targeted for *Technological Forecasting and Social Change*

WP3. Chen, Z., **Yildizbasi, A.,** & Sarkis, J. (2024). Blockchain Architecture for Safer Circular Lithium-Ion Battery Supply Chain. Theory Perception. Targeted for *Journal of Production Research*

WP4. Celik, S.E., **Yildizbasi, A.,** & Sarkis, J. (2024). Circular Economy and Natural Resource Dependence: The Case of Cobalt in Lithium-Ion Batteries. Targeted *Business Strategy and the Environment*.

7. Consultantships

1- *Project Title: Address Small and Medium Enterprises (SMEs) recovery and resiliency by strengthening the domestic supply chain.*

Role: Postdoc Fellow

Duration of Project: 9 Months

Funding: $4.3M by Economic Development Administration (EDA)

Summary: As a post-doctoral fellow assistant was provided to manufacturers in addressing supply chain-related challenges. Regional supply chain capabilities were analyzed to pinpoint gaps and opportunities. A self-assessment tool was developed for companies to evaluate their digital maturity levels, and over 100 strategies were determined. Various short-term training courses were designed to facilitate the development of agile workforces. Direct consultations, focusing on continuous process improvement and the identification of operational enhancement opportunities, were conducted with companies, along with an analysis of overall process performance metrics. Collaboration was fostered with governmental and public agency partners to explore areas for applying WPI's expertise and to showcase the ability to engage with subject matter experts across domains. Engagement with different stakeholders throughout the manufacturing supply chain was encouraged.

2- *Project Title: Workforce Analysis and Re-Organization for* Kalyon Photovoltaic (PV) Solar Technologies Factory

Role: Consultant

Duration of Project: 6 Months

Requested funding: $30K

Summary: In order to eliminate the excessive employment and production inefficiency in the newly established Kalyon PV, it was decided to analyze the production processes together with the re-organization and the required number of personnel for production efficiency. As a result of the study, it was determined that there was a personnel imbalance between the units and the unit demands were met with re-planning, and the number of shifts was increased from 2 to 3 with an 11% personnel increase.

3- *Project Title:* Lean Training and Implementation at VARAKA Paper Factory

Role: Consultant

Duration of Project: 4 Months

Requested funding: $20K

Summary: This project aimed to identify opportunities for reducing resource consumption, including electricity, water, raw materials, and waste. To achieve this goal, the project was implemented in two phases. First, the project involved training relevant employees on lean manufacturing principles. Following this training, the empowered employees were able to identify and address the issues related to resource consumption and efficiency.

4- *Project Title:* Institutional Transformation Project of Turkish Railways (TCDD)

Role: Project Manager / Consultant

Duration of Project: 28 Months

Requested funding: $300K

Summary: This project involved a comprehensive analysis of business processes, leading to a corporate reorganization. Additionally, end-to-end evaluation of the supply chain activities related to TCDD Transportation services was conducted. Relevant personnel received training to establish an effective, efficient, and sustainable system. Workshops were organized with supply chain stakeholders to identify and address issues, and the project contributed as an observer during the implementation of proposed solutions for these problems.

5- *Project Title:* Project on the Analysis of Automotive Firms' Compliance with VOC Emissions

Role: Project Manager / Consultant

Duration of Project: 5 Months

Requested funding: $18K

Summary: As part of the project coordinated by the Ministry of Environment and Urbanization, over 20 automotive primary and secondary industry manufacturers in Turkey were visited to assess their VOC (Volatile Organic Compounds) emission levels. Subsequently, an action plan and cost analysis, designed to facilitate the required transformation for sustainability in accordance with established limit values, were developed and presented to sector representatives.

6- *Project Title:* Institutional Architecture and Process Management Project for Ankara Water and Sewerage Enterprise (ASKI)

Role: Project Manager / Consultant

Duration of Project: 6 Months

Requested funding: $60K

Summary: As part of the project, an initial analysis of the existing situation was conducted, which was essential for the institutional architecture study at ASKI. This involved conducted focus group meetings with top managers and one-on-one interviews. Based on the gathered insights, deficiencies in the current situation were identified, and recommendations for enhancements were provided. Following the approval of these improvement suggestions, comprehensive definitions of business processes were established, and BPMN process maps were created. Lastly, key performance indicators (KPIs) were identified to serve as inputs for the Performance Management System, and these were shared with senior management.

10. Professional Society Memberships and Offices

Memberships

- Institute for Operation Research and Management Sciences (INFORMS)
- Decision Sciences Institute (DSI)
- Academy of Management (AOM)
- Member of International Society on Multiple Criteria Decision Making

11. Editorial and Referee Activities

Review Editor for Frontiers

1. Fuel Cells, Electrolyzers and Membrane Reactors 2021 – Present
2. Circular Economy 2020- present

Journal Ad-hoc Reviewer 2018 - present

- Journal of Cleaner Production
- International Journal of Production Research
- International Journal of Production Economics
- IEEE Transactions on Engineering Management
- Computers & Industrial Engineering
- Business, Strategy and Environment
- Resources, Conservation and Recycling
- Information Science
- Renewable Energy
- Annals of Operations Research
- Management Decision
- Academy of Management
- Business Process Management
- Journal of Knowledge Economy
- IEEE Access
- Energy

Conference Ad-hoc Reviewer:

- Decision Science Institute 2022 - Present
- Academy of Management 2022 – Present
  2016 – Present

- EURO The Association of European Operational Research Societies

12. Honors and Awards related to Scholarship

Honors and Awards

Awarded a Grant by The Scientific and Technological Research Council of Turkey (TUBITAK) for International Visiting Scholar Program	2020-2021
Scholarship by Republic of Turkey Ministry of Education for Master of Science	2007-2010
50% Tuition Scholarship from Syracuse University Engineering Management Department	2008-2010

13. Service

13.1. Department and University

University (AYBU)

Deputy Chairman of Institute of Science	2018 – 2021
Deputy Chairman of Industrial Engineering Department	2016 – 2021
Coordinator of Occupational Health and Safety Department	2016 – 2021
Erasmus + Coordinator of the Industrial Engineering Department	2015 - 2019
Judge at the AYBU's Project Presentation Day	2019 - 2021
Undergraduate Curriculum committee for Industrial Engineering	2016 – 2018

University (WPI)

Co-advisor of Major Qualifying Project (MQP) Students: Juliana Fox, Aaron Skaling, Jared Bailey Project Title: *Process improvement in the Acoustic Java Roastery*	2024 – 2025
PhD Committee Member Student: Chen Zhuowen	2024 - Present

PhD Proposal Title: *Circular Supply Chain Safety Management through Blockchain Technology Governance*	
Invited guest lecturer in Materials Management in Supply Chain class offered by Sara Saberi at WPI	C Term 2023
Invited guest lecturer in Global Environment and Business Decision class offered by Edward Gonsalves at WPI	C Term 2022, 2024 A Term 2022,2023,2024
Speaker in the Business School PhD Seminar Series, managed by Professor Joe Zhu	2022,2024
PhD Qualification Committee Member Student: Chen Zhuowen	2023

13.2. Students at WPI

Wrote recommendation Letter for undergraduate, graduate, PhD students.	2022-2024
Advising, training, and mentoring undergraduate students	2023- Present