



MADJID TAVANA, PH.D.	
Professor and Chair	Business Systems & Analytics Department La Salle University, Philadelphia, Pennsylvania 19141, United States
Honorary Professor	Business Information Systems Department University of Paderborn, D-33098 Paderborn, Germany
Editor-in-Chief	Decision Analytics Journal (Elsevier) Healthcare Analytics (Elsevier) Supply Chain Analytics (Elsevier) International Journal of Applied Decision Sciences International Journal of Management and Decision Making International Journal of Knowledge Engineering and Data Mining International Journal of Communication Networks and Distributed Systems
Editor	Annals of Operations Research (Springer) Information Sciences (Elsevier) Expert Systems with Applications (Elsevier) Computers and Industrial Engineering (Elsevier) Journal of Innovation and Knowledge (Elsevier) Intelligent Systems with Applications (Elsevier) Journal of Industrial and Production Engineering (Taylor & Francis)
Editor-in-Chief Emeritus	International Journal of Strategic Decision Sciences International Journal of Enterprise Information Systems Space Mission Planning and Operations
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EMPLOYMENT AND PROFESSORSHIPS

LA SALLE UNIVERSITY, Philadelphia, Pennsylvania, USA

School of Business, [Business Systems and Analytics Department](#) (1984 to Present)

Full Professor with Tenure (Tenured in 1990)

Chairman, Business Systems and Analytics Department (2015 to Present)

Distinguished Chair of Business Analytics (2014 to Present)

Professor, Business Systems and Analytics (2004 to Present)

Chairman, Management Department (1993-2005)

Associate Professor, Management Information Systems and Decision Sciences (1996-2004)

Director, Center for Technology and Management (1987-1993)

Assistant Professor, Management Information Systems and Decision Sciences (1986-1996)

Instructor, Management Information Systems and Decision Sciences (1984-1986)

Program Development:

(STEM Designated)

- 2015 - B.S. in Business Systems and Analytics
- 2016 - M.B.A. (FULL TIME) in Business Systems and Analytics
- 2017 - M.B.A. (HYBRID) in Business Systems and Analytics
- 2018 - M.B.A. (ONLINE) in Business Systems and Analytics
- 2022 - M.S. (FULL TIME) in Business Systems and Analytics
- 2022 - M.S. (HYBRID) in Business Systems and Analytics
- 2022 - M.S. (ONLINE) in Business Systems and Analytics
- 2022 - Graduate Certificate (ONLINE) in Business Systems and Analytics
- 2022 - Dual Degree M.S. in Supply Chain Analytics and Master of Supply Chain Management with POLIMI School of Management (Milan, Italy)

UNIVERSITY OF PADERBORN, Paderborn, Germany

Faculty of Business Administration and Economics

[Management Information Systems and Operations Research Department](#)

[Honorary Professor](#) (May 2016 to Present)

Distinguished Guest Professor (May 2015-May 2016)

Guest Professor (May 2008-May 2015)

Email: mtavana@mail.uni-paderborn.de

SAPIENZA UNIVERSITY OF ROME, Rome, Italy

[Doctoral Program in Business and Economics](#) (September 2021 to Present)

Full Professor Member of the Scientific Committee

RUTGERS UNIVERSITY, New Brunswick-Newark-Camden, New Jersey, USA

Rutgers School of Business (2008 to Present)

Adjunct Professor and Senior Lecturer

Management Science and Information Systems Department (New Brunswick and Newark Campuses)

Management Department (Camden Campus)

Email: tavana@rutgers.edu

EDUCATION

UNIVERSITY OF PENNSYLVANIA, Philadelphia, Pennsylvania

The Wharton School, Doctoral Programs (January -December 1997)

Post-Doctoral Habilitation (Dr. Hab.)

Thesis Title: Euclid: Strategic Alternative Assessment Matrix

Thesis Publication: Tavana, M. (2002) 'Euclid: Strategic Alternative Assessment Matrix,' *Journal of Multi-Criteria Decision Analysis*, Vol. 11, No. 2, pp. 75-96. <https://doi.org/10.1002/mcda.318>

Thesis Supervisor: Dr. Harbir Singh

AMERICAN UNIVERSITY IN LONDON, London, England

College of Business Administration, Doctoral Programs (December 1991-March 1993)

Doctor of Philosophy (Ph.D.)

Major: Management Information Systems

Thesis Title: Strategic Assessment Model: A Multiple Criteria Decision Support System

Thesis Publications: Tavana, M. and Banerjee, S. (1995) 'Strategic Assessment Model (SAM): A Multiple Criteria Decision Support System for Evaluation of Strategic Alternatives,' *Decision Sciences*, Vol. 26, No. 1, pp. 119-143. <https://doi.org/10.1111/j.1540-5915.1995.tb00840.x>

Tavana, M. and Banerjee, S. (1995) 'Evaluating Strategic Alternatives: An Analytical Model,' *Computers and Operations Research*, Vol. 22, No. 7, pp. 731-743. [https://doi.org/10.1016/0305-0548\(94\)00058-G](https://doi.org/10.1016/0305-0548(94)00058-G)

Thesis Supervisor: Dr. Snehamay Banerjee, Management Department, Drexel University

Thesis Committee: Dr. Edward Lusk, Wharton School, University of Pennsylvania; Dr. Oliver Heil, Anderson Graduate School of Management, UCLA; Dr. Kristiaan Helsen, Graduate School of Business, University of Chicago; Dr. Ronald Gulezian, Quantitative Methods Department, Drexel University; and Dr. Lakhbir Hayre, Financial Strategies Group, Prudential Securities.

DREXEL UNIVERSITY, Philadelphia, Pennsylvania

College of Information Studies (January 1987-June 1991)

Post-Master of Information Systems (P.M.I.S.)

Major: Information Systems Design and Evaluation

Advisor: Dr. Gary Strong

UNIVERSITY OF PENNSYLVANIA, Philadelphia, Pennsylvania

The Wharton School, Doctoral Programs (September 1981-May 1987)

Ph.D. Candidate (A.B.D.)

Major: Social Systems Sciences
Advisors: Dr. Edward J. Lusk and Dr. Russell Ackoff

LA SALLE UNIVERSITY, Philadelphia, Pennsylvania

School of Business Administration, Graduate Programs (September 1979-May 1981)

Master of Business Administration (M.B.A.)

Majors: Management Information Systems and Management Science/Operations Research

TEHRAN BUSINESS COLLEGE, Tehran, Iran

School of Management, Management Science Program (September 1975-August 1978)

Bachelor of Science (B.S.)

Majors: Management Science and Management Information Systems

Awards: Four Years National Merit Scholarship

CONTINUING EDUCATION

UNIVERSITY OF CALIFORNIA, LOS ANGELES (UCLA), Los Angeles, California

Anderson Graduate School of Management (January-June 1995)

Visiting Scholar, Decision Support Systems (Multi-criteria Decision Support Models in Supply Chain Management)

Research Supervisor: Dr. Oliver Heil

RESEARCH FELLOWSHIPS

NAVAL RESEARCH LABORATORY, NASA - Stennis Space Center, Mississippi

Geospatial Innovation Lab (May-August 2015)

Distinguished Research Fellow

Fellowship Project: Design and development of interactive decision support systems for Managing Uncertain Spatial Data in Geographic Information Systems.

The United States Naval Research Laboratory (Grant Number: N000141310505)

AIR FORCE RESEARCH LABORATORY, Rome, New York

Information Directorate - Information Systems Research Branch (May-July 2013)

Distinguished Research Fellow

Fellowship Project: Risk Analysis Model for Assessing Availability and Integrity in Command and Control Systems

The United States Air Force Research Laboratory (Grant Number: FA8750-13-2-0115)

AIR FORCE RESEARCH LABORATORY, Rome, New York

Information Directorate - Information Systems Research Branch (May-July 2012)

Distinguished Research Fellow

Fellowship Project: Robustness and Resiliency Assessment in Integrated Command and Control Systems

The United States Air Force Research Laboratory (Grant Number: FA8750-11-2-0218)

AIR FORCE RESEARCH LABORATORY, Rome, New York

Information Directorate - Information Systems Research Branch (May-July 2011)

Distinguished Research Fellow

Fellowship Project: Workforce Planning and Business Process Reengineering

The United States Air Force Research Laboratory (Grant Number: FA9550-09-C-0114)

AIR FORCE RESEARCH LABORATORY, Rome, New York

Information Directorate - Information Systems Research Branch (May-July 2010)

Distinguished Research Fellow

Fellowship Project: Dynamic Air Tasking Assessment in Network-Centric Battlespace

United States Air Force Research Laboratory (Grant Number: FA8750-09-2-0157)

NAVAL RESEARCH LABORATORY, Stennis Space Center, Mississippi

Marine Geosciences Division - Mapping, Charting and Geodesy Branch (May-July 2009)

Distinguished Research Fellow

Fellowship Projects:

1. Network-Centric Autonomous Underwater Vehicle Mission Planning
2. Decision Support System for the NATO Enlargement Process

United States Naval Research Laboratory (Grant Number: N00173-08-P-6201)

NAVAL RESEARCH LABORATORY, Stennis Space Center, Mississippi

Marine Geosciences Division - Mapping, Charting and Geodesy Branch (May-July 2008)

Distinguished Research Fellow

Fellowship Projects: 1. Autonomous Underwater Vehicle Mission Planning and Control Systems
2. Decision Support Systems for the Base Realignment and Closure (BRAC) Process

United States Naval Research Laboratory (Grant Number: N00014-08-1-0160)

AIR FORCE RESEARCH LABORATORY, Rome, New York

Information Directorate - Information Systems Research Branch (May-July 2007)

Distinguished Research Fellow

Fellowship Project: Network-Centric Simulation in Joint Air Operations

United States Air Force Research Laboratory (Grant Number: FA8750-07-2-0043)

AIR FORCE RESEARCH LABORATORY, Rome, New York

Information Directorate - Information Systems Research Branch (May-July 2006)

Distinguished Research Fellow

Fellowship Project: Network-Centric Multi-Criteria Modeling of Joint Air Operations

United States Air Force Research Laboratory (Grant Number: FA9550-04-C-0141)

NASA – JOHNSON SPACE CENTER, Houston, Texas

Mission Operations Directorate - Mission Control Center (May-July 2004)

Distinguished Research Fellow

Fellowship Projects: 1. Intelligent Decision Support Systems for Future Manned Spaceflight Operations
2. Benchmarking system for Global Warming in the European Union

National Aeronautics and Space Administration (Grant Number: NAG9-1526)

NASA – JOHNSON SPACE CENTER, Houston, Texas

Mission Operations Directorate - Mission Control Center (May-July 2003)

Distinguished Research Fellow

Fellowship Projects: 1. Integrated Spacecraft Command and Control Systems
2. Benchmarking System for Technology Assessment

National Aeronautics and Space Administration (Grant Number: NAG9-1526)

NASA – JOHNSON SPACE CENTER, Houston, Texas

Mission Operations Directorate - Mission Control Center (May-July 2000)

Distinguished Research Fellow

Fellowship Project: Mission Operations Architecture Assessment for the Human Exploration of Mars

National Aeronautics and Space Administration (Grant Number: NAG9-39)

NASA – JOHNSON SPACE CENTER, Houston, Texas

Mission Operations Directorate - Mission Control Center (May-July 1999)

Distinguished Research Fellow

Fellowship Project: Automated Flight Control System for the International Space Station

National Aeronautics and Space Administration (Grant Number: NAG9-931)

NASA - KENNEDY SPACE CENTER, Cape Canaveral, Florida

Shuttle Management and Operations Directorate - Shuttle Project Engineering Center (May-July 1996)

Distinguished Research Fellow

Fellowship Project: Group Decision Support System for Space Shuttle Technology Assessment

National Aeronautics and Space Administration (Grant Number: NGT-60002)

NASA - KENNEDY SPACE CENTER, Cape Canaveral, Florida

Shuttle Management and Operations Directorate - Shuttle Project Engineering Center (May-July 1995)

Distinguished Research Fellow

Fellowship Project: Advanced Technology Projects Prioritization for Shuttle Management and Operations

National Aeronautics and Space Administration (Grant Number: NGT-52605)



VISITING PROFESSORSHIPS

UNIVERSITA DEGLI STUDI DI SALERNO, Salerno, Italy

Department of Management and Innovation Systems (June 2023)

First Doctoral Summer School in Data Science, Accounting and Management

Faculty and Member of the Technical-Scientific Committee

<https://www.disa.unisa.it/didattica/focus?id=1123>

ECOLE SUPERIEURE DE COMMERCE ET MANAGEMENT, Tours, Poitiers, La Rochelle, France

School of Business and Management (2001 to Present)

Visiting Professor, Strategic Information Systems

HANSUNG UNIVERSITY, Seoul, Korea

Visiting Professor, Emerging Paradigms in Global Consulting (November 2008)

UNIVERSIDAD DE LA SALLE PACHUCA, Pachuca, Mexico

Visiting Professor, Cybernetics and Informatics (February 2008)

UNIVERSIDAD DE LA SALLE CUERNAVACA, Cuernavaca, Mexico

Visiting Professor, Information Technology (February 2008)

BASEL BUSINESS COLLEGE, Basel, Switzerland

Visiting Professor, Information Technology and Decision Making (May 2005)

UNIVERSIDAD DE LAS AMÉRICAS, Puebla, Mexico

Visiting Professor, Information Technology (April-May 2003)

UNIVERSIDAD DE LAS AMÉRICAS, Puebla, Mexico

Visiting Professor, Information Technology (May-June 2002)

LVIV INSTITUTE OF MANAGEMENT, Lviv, Ukraine

Visiting Professor, Decision Support Systems and Systems Analysis (July-August 1996)

REFEREED SCHOLARLY JOURNAL PUBLICATIONS

Accepted Manuscripts in Press

1. Tavana, M., Khalili Nasr, A., Santos-Arteaga, F.J., Saberi, E. and Mina, H. (Accepted Manuscript in Press) '[An Optimization Model with a Lagrangian Relaxation Algorithm for Artificial Internet of Things-Enabled Sustainable Circular Supply Chain Networks](#),' *Annals of Operations Research*.
2. Tavana, M., Govindan, K., Khalili Nasr, A., Heidary, M.S. and Mina, H. (Accepted Manuscript in Press) '[A Mathematical Programming Approach for Equitable COVID-19 Vaccine Distribution in Developing Countries](#),' *Annals of Operations Research*.
3. Tavana, M., Arman, H., Hadi-Vencheh, A. and Mansoori, S. (Accepted Manuscript in Press) '[A Fuzzy Multi-Objective Optimization Model for Sustainable Location Planning using Volumetric Fuzzy Sets](#),' *Annals of Operations Research*.
4. Tavana, M., Sorooshian, S. and Mina, H. (Accepted Manuscript in Press) '[An Integrated Group Fuzzy Inference and Best-Worst Method for Supplier Selection in Intelligent Circular Supply Chains](#),' *Annals of Operations Research*.
5. Tavana, M., Sohrabi, M., Rezaei, H., Sorooshian, S. and Mina, H. (Accepted Manuscript in Press) '[A Sustainable Circular Supply Chain Network Design Model for Electric Vehicle Battery Production using Internet of Things and Big Data](#),' *Expert Systems*.
6. Tavana, M., Keikha, A. and Santos-Arteaga, F.J. (Accepted Manuscript in Press) '[A Hesitant Fuzzy Group Decision Making Framework with Data Credibility and Strategic Evaluations](#),' *Soft Computing*.

7. Santos-Arteaga, F.J., Di Caprio, D. and Tavana, M. (Accepted Manuscript in Press) '[Information and Communication Technologies and Labor Productivity: A Dynamic Slacks-Based Data Envelopment Analysis](#),' *Journal of the Knowledge Economy*.
8. Setak, M., Tavana, M. and Talafi Daryani, H. (Accepted Manuscript in Press) 'A Two-Level Supply Chain Coordination Model for Perishable Products under Optimal Markdown Time and Trade Credit Policies,' *OPSEARCH*.
9. Tavana, M., Bonyani, A. and Karimi, T. (Accepted Manuscript in Press) 'A Full Ranking Method in Data Envelopment Analysis with Multi-Criteria Decision Analysis,' *International Journal of Applied Management Science*.

2024

10. Tavana, M. and Sorooshian, S. (2024) '[A Comprehensive Review of the Soft Computing Methods Shaping the Future of the Metaverse](#),' *Applied Soft Computing*, Vol. 150, Article 111098.
11. Mahmoodi, E., Fathi, M., Tavana, M., Ghobakhloo, M. and Ng, A.H.C. (2024) '[Data-Driven Simulation-Based Decision Support System for Resource Allocation in Industry 4.0 and Smart Manufacturing](#),' *Journal of Manufacturing Systems*, Vol. 72, pp. 287-307.
12. Amiri, A., Tavana, M. and Arman, H. (2024) '[An Integrated Fuzzy Analytic Network Process and Fuzzy Regression for Bitcoin Price Prediction](#),' *Internet of Things*, Vol. 25, Article 101027.

2023

13. Tavana, M., Heidary, M.S. and Mina, H. (2023) '[An Improved Fuzzy Preference Programming and Weighted Influence Non-linear Gauge System for Mission Architecture Assessment at NASA](#),' *Applied Soft Computing*, Vol. 145, Article 110572.
14. Tavana, M., Soltanifar, M., and Santos-Arteaga, F. (2023) '[Analytical Hierarchy Process: Revolution and Evolution](#),' *Annals of Operations Research*, Vol. 326, No. 2, pp. 879-907.
15. Tavana, M., Mina, H. and Santos Arteaga, F.J. (2023) '[A Generalization of the Best-Worst Method with an Application to Advanced Technology and Innovation Assessment at NASA](#),' *Journal of Business Research*, Vol. 154, Article 113272.
16. Tavana, M., Soltanifar, M., Santos-Arteaga, F.J. and Sharafi, H. (2023) '[Analytic Hierarchy Process and Data Envelopment Analysis: A Match Made in Heaven](#),' *Expert Systems with Applications*. Vol. 223, Article 119902.
17. Tavana, M., Hajipour, V., Alaghebandha, M. and Di Caprio, D. (2023) '[A Bi-Objective Hybrid Vibration Damping Optimization Model for Synchronous Flow Shop Scheduling Problems](#),' *Machine Learning with Applications*, Vol. 11, Article 100445.
18. Tavana, M., Khalili Nasr, A., Barati Ahmadabadi, A., Shamekhi Amiri, A. and Mina, H. (2023) '[An Interval Multi-Criteria Decision-Making Model for Evaluating Blockchain-IoT Technology in Supply Chain Networks](#),' *Internet of Things*, Vol. 22, Article 100786.
19. Soltanifar, M., Tavana, M., Santos-Arteaga, F.J. and Sharafi, H. (2023) '[A Hybrid Multi-Attribute Decision-Making and Data Envelopment Analysis Model with Heterogeneous Attributes: The case of Sustainable Development Goals](#),' *Environmental Science and Policy*, Vol. 147, pp. 89-102.
20. Sorooshian, S., Tavana, M. and Ribeiro-Navarrete, S. (2023) '[From Classical Interpretive Structural Modeling to Total Interpretive Structural Modeling and Beyond: A Half-Century of Business Research](#),' *Journal of Business Research* . , Vol. 157, Article 113642.
21. Dellnitz, A., Tavana, M. and Banker, R. (2023) '[A Novel Median-Based Optimization Model for Eco-Efficiency Assessment in Data Envelopment Analysis](#),' *Annals of Operations Research*., Vol. 322, No. 2, pp. 661-690.
22. Santos-Arteaga, F.J., Di Caprio, D. and Tavana, M. (2023) '[A Combinatorial Data Envelopment Analysis with Uncertain Interval Data with Application to ICT Evaluation](#),' *Technological Forecasting and Social Change*, Vol. 191, Article 122510.

23. Hilbert, M., Dellnitz, A., Kleine, A. and Tavana, M. (2023) '[A Novel Indicator for Sustainability in Production Planning using Center of Gravity-Based Assessment of Pareto Fronts](#),' *Computers and Industrial Engineering*, Vol. 185, Article 109618.
 24. Marín, R., Santos-Arteaga, F.J., Tavana, M. and Di Caprio, D. (2023) '[Value Chain Digitalization and Technological Development as Innovation Catalysts in Small and Medium-Sized Enterprises](#),' *Journal of Innovation & Knowledge*, Vol. 8, No. 4, Article 100454.
 25. Deveci, M., Pamucar, D., Gokasar, I. and Tavana, M. (2023) '[Spacecraft Tracking Control and Synchronization: An Assessment of Conventional, Unconventional, and Combined Methods](#),' *Advances in Space Research*, Vol. 71, No. 9, 3534-3551.
 26. Babaei Tirkolaee, E., Ebadi Torkayesh, A., Tavana, M., Goli, A., Simic, V. and Ding, W. (2023) '[An Integrated Decision Support Framework for Resilient Vaccine Supply Chain Network Design](#),' *Engineering Applications of Artificial Intelligence*, Vol. 126, Article 106945.
 27. Santos-Arteaga, F.J., Di Caprio, D., Tavana, M. and Cerdá, E. (2023) '[A Credibility and Strategic Behavior Approach in Hesitant Multiple Criteria Decision-Making with Application to Sustainable Transportation](#),' *Transactions on Fuzzy Systems*, Vol. 31, No. 2, pp. 460-474.
 28. Amoozad Mahdiraji, H., Tavana, M. and Rezayar, A. (2023) '[A Game-Theoretic Framework for Analyzing the Impact of Social Responsibility and Supply Chain Profitability](#),' *Cybernetics and Systems*, Vol. 54, No. 1, pp. 104-137.
 29. Hajipour, V., Niaki, S.T.A., Tavana, M., Santos-Arteaga, F.J. and Hosseinzadeh, S. (2023) '[A Comparative Performance Analysis of Intelligence-Based Algorithms for Optimizing Competitive Facility Location Problems](#),' *Machine Learning with Applications*, Vol. 11, Article 100443.
 30. Namazi, M., Tavana, M., Mohammadi, E. and Bonyadi Naeini, A. (2023) '[A New Strategic Approach for R&D Project Portfolio Selection Using Efficiency-Uncertainty Maps](#),' *Benchmarking: An International Journal*, Vol. 30, No. 10, pp. 4193-4220.
- 2022
31. Tavana, M., Shaabani, A., Di Caprio, D. and Bonyani, A. (2022) '[A Novel Interval Type-2 Fuzzy Best-Worst Method and Combined Compromise Solution for Evaluating Eco-Friendly Packaging Alternatives](#),' *Expert Systems with Applications*, Vol. 200, Article 117188.
 32. Tavana, M., Kian, H., Khalili Nasr, A., Govindan, K. and Mina, H. (2022) '[A Comprehensive Framework for Sustainable Closed-Loop Supply Chain Network Design](#),' *Journal of Cleaner Production*, Vol. 332, Article 129777.
 33. Tavana, M., Khalili Nasr, A., Mina, H. and Michnik, J. (2022) '[A Private Sustainable Partner Selection Model for Green Public-Private Partnerships and Regional Economic Development](#),' *Socio-Economic Planning Sciences*, Vol. 83, Article 101189.
 34. Tavana, M., Ghasrihouzani, M. and Abtahi, A.R. (2022) '[A Technology Development Framework for Scenario Planning and Futures Studies Using Causal Modeling](#),' *Technology Analysis and Strategic Management*, Vol. 34, No. 8, pp. 859-875.
 35. Tavana, M., Azadmanesh, A., Khalili Nasr, A. and Mina, H. (2022) '[A Multicriteria-Optimization Model for Cultural Heritage Renovation Projects and Public-Private Partnerships in the Hospitality Industry](#),' *Current Issues in Tourism*, Vol. 25, No. 22, pp. 3709-3734.
 36. Khalili-Damghani, K., Tavana, M. and Ghasemi, P. (2022) '[A Stochastic Bi-Objective Simulation-Optimization Model for Cascade Disaster Location-Allocation-Distribution Problems](#),' *Annals of Operations Research*, Vol. 309, No. 1, pp. 103-141.
 37. Ebadi Torkayesh, A., Tavana, M. and Santos-Arteaga, F.J. (2022) '[A Multi-Distance Interval-Valued Neutrosophic Approach for Social Failure Detection in Sustainable Municipal Waste Management](#),' *Journal of Cleaner Production*, Vol. 336, Paper 130409.

38. Vafadarnikjoo, A., Tavana, M., Chalvatzis, K. and Botelho, T. (2022) '[A Socio-Economic and Environmental Vulnerability Assessment Model with Causal Relationships in Electric Power Supply Chains](#),' *Socio-Economic Planning Sciences*, Vol. 80, Article 101156.
 39. Di Caprio, D., Santos-Arteaga, F.J. and Tavana, M. (2022) '[An Information Retrieval Benchmarking Model of Satisficing and Impatient Users' Behavior in Online Search Environments](#),' *Expert Systems with Applications*, Vol. 191, Article 116352.
 40. Moazzeni, S., Tavana, M. and Mostafayi, S. (2022) '[A Dynamic Location-Arc Routing Optimization Model for Electric Waste Collection Vehicles](#),' *Journal of Cleaner Production*, Vol. 364, Article Number 132571.
 41. Pamucar, D., Deveci, M., Gokasar, I., Tavana, M. and Koppen, M. (2022) '[A Metaverse Assessment Model for Sustainable Transportation Using Ordinal Priority Approach and Aczel-Alsina Norms](#),' *Technological Forecasting and Social Change*, Vol. 182, Article Number 121778.
 42. Shahvari, O., Logendran, R. and Tavana, M. (2022) '[An Efficient Model-Based Branch-and-Price Algorithm for Unrelated-Parallel Machine Batching and Scheduling Problems](#),' *Journal of Scheduling*, Vol. 25, No. 5, pp. 589-621.
 43. Ebrahimnejad, A., Tavana, M. and Charles, V. (2022) '[Analytics under Uncertainty: A Novel Method for Solving Linear Programming Problems with Trapezoidal Fuzzy Variables](#),' *Soft Computing*, Vol. 26, No. 1, pp. 327-347.
 44. Pamucar, D., Macura, D., Tavana, M., Božanić, D. and Knežević, N. (2022) '[An Integrated Rough Group Multicriteria Decision Making Model for Ex-Ante Prioritization Infrastructure Projects: The Serbian Railways Case](#),' *Socio-Economic Planning Sciences*, Vol. 79, Article 101098.
 45. Di Caprio, D., Santos-Arteaga, F.J. and Tavana, M. (2022) '[A New Algorithm for Modeling Online Search Behavior and Studying Ranking Reliability Variations](#),' *Applied Intelligence*, Vol. 52, No. 7, pp. 7529-7549.
 46. Afrasiabi, A., Tavana, M. and Di Caprio, D. (2022) '[An Extended Hybrid Fuzzy Multi-Criteria Decision Model for Sustainable and Resilient Supplier Selection](#),' *Environmental Science and Pollution Research*, Vol. 29, No. 25, pp. 37291-37314.
 47. Santos-Arteaga, F.J., Tavana, M. and Di Caprio, D. (2022) '[Information Acquisition and Assimilation Capacities as Determinants of Technological Niche Markets](#),' *Journal of Innovation & Knowledge*, Vol. 7, No. 3, Article 100193.
 48. Tavana, M., Nazari-Shirkouhi, S., Mashayekhi, A. and Mousakhani, S. (2022) '[An Integrated Data Mining Framework for Organizational Resilience Assessment and Quality Management Optimization in Trauma Centers](#),' *Operations Research Forum*, Vol. 3, Article 17.
 49. Tavana, M., Shaabani, A., Raeesi Vanani, I. and Gangadhari, R.K. (2022) '[A Review of Digital Transformation on Supply Chain Process Management Using Text Mining](#),' *Processes*, Vol. 10, No. 5, Article 842.
 50. Amoozad Mahdiraji, H., Tavana, M., Mahdiani, P. and Abbasi Kamardi, A.A. (2022) '[A Multi-Attribute Data Mining Model for Rule Extraction and Service Operations Benchmarking](#),' *Benchmarking: An International Journal*, Vol. 29, No. 2, pp. 456-495.
 51. Jabbari, M., Tavana, M., Fattahi, P. and Daneshamooz, F. (2022) '[A Parameter Tuned Hybrid Algorithm for Solving Flow shop Scheduling Problems with Parallel Assembly Stages](#),' *Sustainable Operations and Computers*, Vol. 3, pp. 22-32.
 52. Hashemi, S. E., Tavana, M. and Bakhshi, M. (2022) '[A New Particle Swarm Optimization Algorithm for Optimizing Big Data Clustering](#),' *SN Computer Science*, Vol. 3, Article 311.
- 2021
53. Tavana, M., Izadikhah, M., Toloo, M. and Roostaei, R. (2021) '[A New Range Directional Model for Data Envelopment Analysis Problems with Negative and Flexible Measures](#),' *Omega*, Vol. 102, Article 102355.
 54. Tavana, M., Mousavi, H., Khalili Nasr, A. and Mina, H. (2021) '[A Fuzzy Weighted Influence Non-linear Gauge System](#)



- [with Application to Advanced Technology Assessment at NASA](#), *Expert Systems with Applications*, Vol. 182, Article 115274.
55. Tavana, M., Toloo, M., Aghayi, N. and Arabmaldar, A. (2021) '[A Robust Cross-Efficiency Data Envelopment Analysis Model with Undesirable Outputs](#),' *Expert Systems with Applications*, Vol. 167, Article 114117.
 56. Tavana, M., Shaabani, A. and Valaei, N. (2021) '[An Integrated Fuzzy Framework for Analyzing Barriers to the Implementation of Continuous Improvement in Manufacturing](#),' *International Journal of Quality and Reliability Management*, Vol. 38, No. 1, pp. 116-146.
 57. Tavana, M., Nazari-Shirkouhi, S. and Farzaneh Kholghabad, H. (2021) '[An Integrated Quality and Resilience Engineering Framework in Healthcare with Z-number Data Envelopment Analysis](#),' *Health Care Management Science*, Vol. 24, No. 4, pp. 768-785.
 58. Tavana, M., Izadikhah, M., Farzipoor Saen, R. and Zare, R. (2021) '[An Integrated Data Envelopment Analysis and Life Cycle Assessment Method for Performance Measurement in Green Construction Management](#),' *Environmental Science and Pollution Research*, Vol. 28, No. 1, pp. 664-682.
 59. Tavana, M., Shaabani, A., Mansouri Mohammadabadi, S. and Varzgani, N. (2021) '[An Integrated Fuzzy AHP-Fuzzy MULTIMOORA Model for Supply Chain Risk-Benefit Assessment and Supplier Selection](#),' *International Journal of Systems Science: Operations and Logistics*, Vol. 8, No. 3, pp. 238-261.
 60. Tavana, M., Tohidi, H., Alimohammadi, M. and Lesansalmasi, R. (2021) '[A Location-Inventory-Routing Model for Green Supply Chains with Low-Carbon Emissions under Uncertainty](#),' *Environmental Science and Pollution Research*, Vol. 28, No. 36, pp. 50636–50648.
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1. Deveci, M., Rodriguez, R., Pamucar, D., Tavana, M. and Garg, H. (2023). '[Fuzzy Decision Systems for Sustainable Transport](#),' *IEEE Transactions on Fuzzy Systems*, Vol. 31, No. 2, , p. 355.
2. Antucheviciene, J., Tavana, M., Nilashi, M. and Bausys, R. (2017). '[Managing Information Uncertainty and Complexity in Decision-Making](#),' *Complexity*, Vol. 2017, pp. 1-3.
3. Tavana, M. (October 2007). '[Alpha Iota Delta launches the International Journal of Applied Decision Sciences \(IJADS\)](#),' *Decision Line*, Vol. 38, No. 5, p. 31.
4. Tavana, M. (October 2006) '[Why Alpha Iota Delta?](#)' *Decision Line*, Vol. 37, No. 5, pp. 21, 35.
5. Tavana, M. (March 2006) '[Information Technology Crunch: Alpha Iota Delta Can Help](#),' *Decision Line*, Vol. 37, No. 2, p. 30.
6. Tavana, M. (January 2006) '[Saint Joseph's University Awarded New Alpha Iota Delta Chapter](#),' *Decision Line*, Vol. 37, No. 1, pp. 14-15.

EDITORSHIPS

1. Editor-in-Chief, [Decision Analytics Journal \(Elsevier\)](#) (2021 to Present)
2. Editor-in-Chief, [Healthcare Analytics \(Elsevier\)](#) (2021 to Present)
3. Editor-in-Chief, [Supply Chain Analytics \(Elsevier\)](#) (2022 to Present)
4. Editor-in-Chief, [International Journal of Applied Decision Sciences \(Inderscience\)](#) (2007 to Present)
5. Editor-in-Chief, [International Journal of Management and Decision Making \(Inderscience\)](#) (2012 to Present)
6. Editor-in-Chief, [International Journal of Communication Networks & Distributed Systems \(Inderscience\)](#) (2018 to Present)
7. Editor-in-Chief, [International Journal of Knowledge Engineering and Data Mining \(Inderscience\)](#) (2015 to Present)
8. Editor, [Annals of Operations Research \(Springer\)](#) (2021 to Present)
9. Editor, [Information Sciences \(Elsevier\)](#) (2022 to Present)
10. Editor, [Expert Systems with Applications \(Elsevier\)](#) (2021 to Present)
11. Editor, [Computers and Industrial Engineering \(Elsevier\)](#) (2020 to Present)
12. Editor, [Journal of Innovation and Knowledge \(Elsevier\)](#) (2021 to Present)
13. Editor, [Intelligent Systems with Applications \(Elsevier\)](#) (2021 to Present)

14. Editor, [Journal of Industrial and Production Engineering \(Taylor & Francis\)](#) (2022 to Present)
15. Editor-in-Chief (Emeritus), [Space Mission Planning and Operations](#) (2022 to 2023)
16. Editor-in-Chief (Emeritus), [International Journal of Strategic Decision Sciences \(IGI Global\)](#) (2008 to 2021)
17. Editor-in-Chief (Emeritus), [International Journal of Enterprise Information Systems \(IGI Global\)](#) (2010 to 2021)
18. Editor-in-Chief, IGI Global: [Advances in Business Information Systems and Analytics Book Series](#) (2012 to Present)

CONFERENCE COMMITTEES

- General Chair, Eighth International Conference on Intelligent and Interactive Systems and Applications (Hong Kong, 2023)
- General Chair, Seventh International Conference on Intelligent and Interactive Systems and Applications (Virtual, 2022)
- General Chair, Sixth International Conference on Intelligent and Interactive Systems and Applications (Virtual, 2021)
- General Chair, Fifth International Conference on Intelligent and Interactive Systems and Applications (Shanghai, China, 2020)
- General Chair, Fourth International Conference on Intelligent and Interactive Systems and Applications (Bangkok, Thailand, 2019)
- General Chair, Third International Conference on Intelligent and Interactive Systems and Applications (Hong Kong, China, 2018)
- General Chair, Second International Conference on Intelligent and Interactive Systems and Applications (Beijing, China, 2017)
- Keynote Speaker, First International Conference on Intelligent and Interactive Systems and Applications (Shanghai, China, 2016)
- General Chair, Fifth International Conference on Decision Sciences and Management (Virtual, 2023)
- General Chair, Fourth International Conference on Decision Sciences and Management (Virtual, 2022)
- General Chair, Third International Conference on Decision Sciences and Management (Virtual, 2021)
- General Chair, Second International Conference on Decision Sciences and Management (Changsha, China, 2019)
- General Chair, Fifth International Conference on Data Science and Business Analytics (Virtual, 2022)
- General Chair, Fourth International Conference on Data Science and Business Analytics (Virtual, 2021)
- General Chair, Third International Conference on Data Science and Business Analytics (Istanbul, Turkey, 2019)
- General Chair, Second International Conference on Data Science and Business Analytics (Changsha, China, 2018)
- General Chair, First International Conference on Data Science and Business Analytics (Changsha, China, 2017)

ORGANIZATIONAL OFFICERSHIPS

- President, Alpha Iota Delta Honors Society – The International Honor Society in the Decision Sciences and Information Systems (2009 to 2011)
- First Vice-President, Alpha Iota Delta Honors Society – The International Honor Society in the Decision Sciences and Information Systems (2007-2008)
- Second Vice-President, Alpha Iota Delta Honors Society – The International Honor Society in the Decision Sciences and Information Systems (2005-2006)

INVENTIONS

Tavana, M. 'Software Analysis Tool Integrating Data Flow Diagrams and Petri Nets,' *NASA Registered Invention Number: MSC-23242-1-SB, NASA Contract Number NAS9-00031.*

SOFTWARE DEVELOPMENT

- [D-cide©](#): An Influence Diagramming-Based Decision Support System
- [D-code©](#): A Natural Language Programming-Based Decision Support System

- [B-wise©](#): A Rule-Based Expert System
- [N-gage©](#): Multi-criteria Decision Making
- Strategic Assessment System©: A Strategic Decision Support System
- Clust-ER©: An Entity-Relationship Clustering System

DOCTORAL DISSERTATION COMMITTEES

1. Tanay Talukdar, *Predictive Modeling Innovations for Pandemic and Risk of Diseases*, Rutgers University, Department of Management Science and Computer Information Studies, Rutgers Business School, Newark, United States (2023).
2. E.N. Anilkumar, *Barriers, Enablers and Triple-Bottom-Line Dimensions for the Implementation of Sustainable Practices: Modelling and Analysis*, National Institute of Technology, Calicut, India (2020).
3. V. Singh, *Some Investigations in the Area of Optimization and Implication in Uncertain Environment*, Indian Institute of Technology Roorkee, Roorkee, India (2019).
4. P.S. Sathidevi, *Aggregate Demand and Forecasting in the Context of Vector Integrated Moving Average Process*, National Institute of Technology, Calicut, India (2019).
5. M.B. Nidhi, *Modeling and Analysis of Supply Chain Networks for Sustainability under Carbon Trading Scheme*, National Institute of Technology, Calicut, India (2019).
6. Alka Arya, *Development of Some DEA Models in Uncertain Environments with Applications to Health Sector*, Indian Institute of Technology, Roorkee, India (2018).
7. Joby George, *Evaluation of Inventory Control Policies and Bullwhip Effect Mitigation Strategies in Supply Chains*, National Institute of Technology, Calicut, India (2018).
8. G. Rubell Marion Lincy, *Stochastic Learning and Fuzzy Knowledge-Based Decision Making for Stock Market Trading*, National Institute of Technology Calicut, India (2018).
9. J. Laxmi Lalitha, *Lot Streaming in Flow Shops with Missing Operations and Hybrid Flow Shops*, National Institute of Technology Calicut, India (2018).
10. Nima Kazemi, *The Effect of Human Learning and Forgetting on Fuzzy EOQ Model with Backorders*, University of Malaya, Malaysia (2017).
11. Lokanath Sarangi, *Modeling Intelligent Healthcare using Multi Agent System*, Siksha 'O' Anusandhan University, India (2017).
12. Fatemeh Nikpay, *A Hybrid Post-Implementation Evaluation Method for Enterprise Architecture*, University of Malaya, Malaysia (2017).
13. S.V. Nagabhushan, *Design and Development of Multi-Attribute Auction based E-Procurement Model*, Visvesvaraya Technological University, India (2017).
14. Ehsan Shekarian, *Forward and Backward Fuzzy Economic Order Quantity Models Considering Learning Theory*, University of Malaya, Malaysia (2017).
15. M.N. Anish, *Development and Application of An Instrument for Measuring Service Quality Offered to International Patients*, National Institute of Technology Calicut, India (2017).
16. Morteza Yazdani, *A Comparative Applied Comparison of the Multi-Attribute Decision Making methods*, Universidad Europea, Spain (2016).
17. Sunil Tiwari, *Inventory Strategies for Deteriorating Items in Two Warehouse System*, University of Delhi, India (2016).
18. Alireza Fallahpour, *Development of Decision Making Model for Sustainable Supplier Selection in Manufacturing Industry*, University of Malaya, Malaysia (2016).
19. Anuj Kumar Sharma, *Inventory Decisions under Fuzzy Environment with Different Credit Terms*, University of Delhi, India (2016).
20. Sajan T. John, *Reverse Logistics Network Design: Mathematical Modelling and Analysis*, National Institute of Technology Calicut, India (2015).
21. S. Senthil, *Analysis of Decision Problems in Reverse Logistics Networks Using Hybrid Multi-Criteria Decision Making Methods*, National Institute of Technology Calicut, India (2014).
22. O.N. Arunkumar, *Analysis of the factors affecting working capital management of Indian manufacturing firms*, National Institute of Technology Calicut, India (2014).
23. Kunal Kanti Ghosh, *Offshore Outsourcing of Automotive Design Services in India*, Indian Institute of Technology Kharagpur, India (2014).
24. Hosein Khakbaz, *A Two-Phase Stochastic Programming Based Approach for Container Coordination Management in a Shipping Networks under Uncertainty*, University of Sydney, Australia (2014).
25. C.R. Shiyas, *Development and Analysis of Cell Heterogeneity-Based Models for the Design of Cellular Manufacturing Systems*, National Institute of Technology Calicut, India (2014).
26. Surathkal Raghunandhan, *Strategic Management in Centrally Funded Technical Institutions in India*, National Institute of Technology Karnataka, India (2014).

27. Mariya Sodenkamp, *Models, Methods and Applications of Group Multiple-criteria Decision Analysis in Complex and Uncertain Systems*, University of Paderborn, Paderborn, Germany (2013).
28. Varaprasad Garapati, *A Study on Consumer Adoption of Self-Service Technologies in Banking*, National Institute of Technology Calicut, India (2013).
29. Prasant Rout, *A Strategic Analysis of Implementation and Usage Effectiveness of Enterprise Information Systems in Indian Organisations*, Indian Institute of Technology Kharagpur, India (2013).
30. Hamed Jafarzadeh, *What Forms the Decision of Business to Exploit Search Engine Advertising*, University of New South Wales, Sydney, Australia (2012).
31. Mandeep Mittal, *Inventory Management with Inspection and Trade Credit*, University of Dehli, Dehli, India (2012)
32. Le Cong Tru, *A Risk Management Framework for Aquaculture: The Case of Vietnamese Catfish Farming*, RMIT University, Melbourne, Australia (2011).
33. Amirhossein Ghapanchi, *Dynamic Capabilities and Project Characteristics Contributing to the Success of Open Source Software Projects*, University of New South Wales, Sydney, Australia (2011).
34. Aditi Khanna nee Aditi Goswami, *Investigating the Impact of Inflation on Inventory Policies*, University of Delhi, Delhi, India (2010).
35. Kevin K.H. Leung, *An Investigation of Artificial Immune Systems and Variable Selection Techniques for Credit Scoring*, RMIT University, Melbourne, Australia (2009).
36. Barbara J. Mohebbi, *Implementing a Total Quality Index within Health Care Organizations*. The Wharton School, University of Pennsylvania, Philadelphia, Pennsylvania (1998).

AWARDS

- Space Act Award, National Aeronautics and Space Administration, Lyndon B. Johnson Space Center (2005)
- John Abbott Award, American Production and Inventory Control Society (1988)

HONORS

- Alpha Iota Delta Honors Society – The International Honor Society in the Decision Sciences and Information Systems (Inducted April 2003)
- Beta Gamma Sigma Honors Society - The International Honor Society in Business Administration (Inducted April 1999)

GRANTS

- State of Pennsylvania - Department of Education (Link-to-Learn Grant) (2002-2003): \$183,334
- Kemper Foundation Grants (1993, 1994, 1995, 1996, 1997, and 1998)
- Ben Franklin Partnership Grant (1988)
- PEW Foundation Grants (1985 and 1986)

GOVERNMENT RESEARCH GRANTS/SBIR CONTRACS

- United States Air Force - Air Force Research Lab - Principal Investigator (Fall 2013)
Fuzzy Risk Analysis Model for Assessing Availability and Integrity in Command and Control Systems
Contract Number: FA8750-13-2-0115
- United States Air Force - Air Force Research Lab - Principal Investigator (Fall 2012)
Fuzzy Robustness and Resiliency Assessment in Integrated Command and Control Systems
Contract Number: FA8750-11-2-0218
- United States Air Force - Air Force Research Lab - Principal Investigator (Fall 2010)
Fuzzy Workflow Management Modeling with Petri Nets
Contract Number: FA8750-09-2-0157
- United States Navy - Naval Research Lab - Stennis Space Center - Principal Investigator (2008-09)
Autonomous Underwater Vehicle Mission Planning and Control
Contract Number: N00173-08-P-6201 NRL
- NASA - Johnson Space Center - Principal Investigator (2003-04)
Intelligent Flight Support System (IFSS): A Real-Time Intelligent Decision Support Prototype

Small Business Innovation Research (SBIR) Contract Number: 03-1-F6.02-8365 JSC

- NASA - Johnson Space Center - Principal Investigator (1999-00)
Software Tool for Designing and Evaluating Petri Nets
Small Business Innovation Research (SBIR) Contract Number: 99-1-11.01-6241 JSC
- NASA - Johnson Space Center Director Grant (1999-2000)
Advanced Technology Assessment and Selection
Grant Number: NAG9-1196

ORGANIZATIONAL MEMBERSHIPS

- Decision Sciences Institute (DSI)
- Institute for Operations Research and Management Science (INFORMS)
- Association for Information Systems (AIS)

NATIONAL SCIENCE FOUNDATION

National Science Foundation, Reviewer Board Member, Information and Intelligent Systems: Dynamic

OTHER ACCOMPLISHMENTS

- Third Degree Black Belt, World Tae Kwon Do Federation, Seoul, Korea, January 2001.
- Second Degree Black Belt, World Tae Kwon Do Federation, Seoul, Korea, April 1993.
- First Degree Black Belt, World Tae Kwon Do Federation, Seoul, Korea, December 1988.

PERSONAL

U. S. Citizen, Married, Two Children.