



MADJID TAVANA, PH.D.

Professor and Chair	Business Systems & Analytics 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) Expert Systems with Applications (Elsevier) Computers and Industrial Engineering (Elsevier) Information Sciences (Elsevier) Journal of Innovation and Knowledge (Elsevier) Intelligent Systems with Applications (Elsevier) Sustainable Technology and Entrepreneurship (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
Email: tavana@lasalle.edu Web: http://tavana.us Google Scholar ScholarGPS ORICD LinkedIn TOP 2% Scientist	

EMPLOYMENT AND PROFESSORSHIPS

LA SALLE UNIVERSITY, Philadelphia, Pennsylvania, USA

School of Business, Business Systems and Analytics (1984 to Present)
 Full Professor with Tenure (Tenured in 1990)
 Chair, Business Systems and Analytics (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
- 2018 - M.B.A. (ONLINE/HYBRID/FULL TIME) in Business Systems and Analytics
- 2022 - M.S. (ONLINE/HYBRID/FULL TIME) 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)
- 2025 - B.S. in Aviation Administration
- 2025 - M.S. (ONLINE/HYBRID/FULL TIME) in Healthcare Analytics

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

UNIVERSITY OF GOTHENBURG, Gothenburg, Sweden

Department of Business Administration - Industrial and Financial Management and Logistics (July 2025)

<https://www.gu.se/en/news/from-space-to-supply-chains-tavana-sparks-new-thinking-at-the-school>

<https://www.gu.se/nyheter/fran-rymden-till-leveranskedjor-gastprofessor-inspirerar-till-nya-perspektiv>

UNIVERSITY OF BARI ALDO MORO, Bari, Italy

Department of Economics, Management, and Business Law (DEMDI) (June 2025)

Multi-Criteria Decision-Making with Applications to Sustainable Development

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 2023)

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., 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*.
2. 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*.
3. Tavana, M., Sorooshian, S., Sarvarizadehkouhpaye, M. and Mina, H. (Accepted Manuscript in Press) '[A Novel Fuzzy General Best-Worst Method for Considering Diversity and Inclusion in Supplier Selection Programs](#),' *Annals of Operations Research*.
4. Tavana, M., Keikha, A. and Santos-Arteaga, F.J. (Accepted Manuscript in Press) '[A Hesitant Fuzzy Group Decision](#)

5. Tavana, M., Rostamkhani, R. and Di Caprio, D. (Accepted Manuscript in Press) '[A Two-stage Mathematical Series Selection Procedure for Improving Prediction Reliability of Statistical Distribution Functions in Supply Chain Networks,](#)' *OPSEARCH*.
6. Tavana, M., Siconolfi, S. and Gunasekaran, A. (Accepted Manuscript in Press) '[Cherish or Perish: Robust and Resilient Survival Strategies in Higher Education,](#)' *Journal of Enterprise Information Management*.
7. Jafarian, A., Vo, T. L. H., Tavana, M. and Fromont, E. (Accepted Manuscript in Press) '[A Novel Near-to-Expiry Waste Reduction Model with Smoothing Ordering Policy and Retail Discounting for Food Supply Chains,](#)' *Journal of the Operational Research Society*.
8. Ali, H., Tavana, M., Das, S. and Shaikh, A.A. (Accepted Manuscript in Press) '[The Impact of Quality Index and Warranty on Production Systems with Carbon Prevention Investment,](#)' *International Journal of Modelling and Simulation*.
9. Di Caprio, D., Santos-Arteaga, F.J. and Tavana, M. (Accepted Manuscript in Press) '[Forward-looking beyond expectations: Anticipating outcomes in environments with multi-attribute alternatives,](#)' *IMA Journal of Management Mathematics*.
10. D'Adamo, I., Fratocchi, L., Grosso, C. and Tavana, M. (Accepted Manuscript in Press) '[An Integrated Business Strategy for the Twin Transition: Leveraging Digital Product Passports and Circular Economy Models,](#)' *Business Strategy and the Environment*.

2025

11. Tavana, M., Soltanifar, M. and Dellnitz, A. (2025) '[A Novel Linear-Integral TOPSIS Approach to Mars Mission Simulator Planning at NASA,](#)' *Omega*, Vol. 137, Article 103350.
12. Tavana, M., Dellnitz, A. and Yazdani, M. (2025) '[A Comparative Fuzzy Strategic Assessment Framework for Space Mission Selection at NASA,](#)' *Journal of Industrial Information Integration*, Volume 45, May 2025, Article 100840.
13. Tavana, M., Toloo, M., Santos-Arteaga, F.J., Farnoudkia, H. and Cvetkoska, V. (2025) '[Time Envelopment Analysis: A New Method for Effectively Incorporating Time Series in Data Envelopment Analysis,](#)' *Expert Systems with Applications*, Vol. 282, Article 127791.
14. Tavana, M., Di Caprio, D. and Rostamkhani, R. (2025) '[A Total Quality Management Action Plan Assessment Model in Supply Chain Management Using the Lean and Agile Scores,](#)' *Journal of Innovation & Knowledge*, Vol. 10, No. 1, Article 100633.
15. Shamekhi Amiri, A., Torabi, S. A. and Tavana, M. (2025) '[An Assessment of the Prominence and Total Engagement Metrics for Ranking Interdependent Attributes in DEMATEL and WINGS,](#)' *Omega*, Vol. 130, Article 103176.
16. Soltanifar, M., Tavana, M., Charles, V., Ghiyasi, M. and Sharafi, H. (2025) '[A Novel Inverse Data Envelopment Analysis Model with Negative Ratio Data,](#)' *Operational Research*, Vol. 25, Article 25.
17. Tavana, M., Senisel Bachari, M., Soluki, A., Larni Fooeik, A. and Ghanbari, H. (2025) '[A Comprehensive Framework for Multi-Aspectual Project Portfolio Resource Allocation and Evaluation,](#)' *Advanced Engineering Informatics*. Vol. 68, Article 103773.
18. Tavana, M., Bonyani, A. and Karimi, T. (2025) '[A Full Ranking Method in Data Envelopment Analysis with Multi-Criteria Decision Analysis,](#)' *International Journal of Applied Management Science*, Vol. 17, No. 1, pp. 1-26.
19. Setak, M., Tavana, M. and Talafi Daryani, H. (2025) '[A Two-Level Supply Chain Coordination Model for Perishable Products under Optimal Markdown Time and Trade Credit Policies,](#)' *OPSEARCH*, Vol. 62, No. 1, pp. 268-306.
20. Tavana, M., Sorooshian, S., Ashrafidehkordi, R. and Mina, H. (2025) '[A Readiness Assessment Model for Human Systems Management Digitalization in Industrial Organizations,](#)' *Journal of Industrial and Production Engineering*, Vol. 42, No. 1, pp. 47-64.

21. Petersen, J., Nourmohammadi, A., Fathi, M., Ghobakhloo, M. and Tavana, M. (2025) '[Line Balancing for Energy Efficiency in Production: A Qualitative and Quantitative Literature Analysis](#),' *Computers and Industrial Engineering*, Vol. 205, Article 111144.

2024

22. Tavana, M., Sorooshian, S. and Mina, H. (2024) '[An Integrated Group Fuzzy Inference and Best-Worst Method for Supplier Selection in Intelligent Circular Supply Chains](#),' *Annals of Operations Research*, Vol. 342, No. 1, pp. 803–844.
23. Tavana, M., Khalili Nasr, A., Santos-Arteaga, F.J., Saberi, E. and Mina, H. (2024) '[An Optimization Model with a Lagrangian Relaxation Algorithm for Artificial Internet of Things-Enabled Sustainable Circular Supply Chain Networks](#),' *Annals of Operations Research*, Vol. 342, No. 1, pp. 767–802.
24. Dellnitz, A. and Tavana, M. (2024) '[Data Envelopment Analysis: From Non-Monotonic to Monotonic Scale Elasticities](#),' *European Journal of Operational Research*, Vol. 318, No. 2, pp. 549-559.
25. Tavana, M., Sorooshian, S., Rezaei, H. and Mina, H. (2024) '[A Novel Fuzzy Scenario-Based Stochastic General Best-Worst Method](#),' *Expert Systems with Applications*. Vol. 252, Article 124246.
26. 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.
27. Soltanifar, M., Tavana, M., Santos-Arteaga, F.J. and Charles, V. (2024) '[A New Fuzzy KEMIRA Method with an Application to Innovation Park Location Analysis and Selection](#),' *IEEE Transactions on Engineering Management*, Vol. 71, pp. 14933-14944.
28. Dellnitz, A., Kleine, A. and Tavana, M. (2024) '[An Integrated Data Envelopment Analysis and Regression Tree Method for New Product Price Estimation](#),' *OR Spectrum*, Vol. 46, No. 4, pp. 1189-1211.
29. Mostafayi Darmian, S., Tavana, M. and Ribeiro-Navarrete, S. (2024) '[An Investment Evaluation and Incentive Allocation Model for Public-Private Partnerships in Renewable Energy Development Projects](#),' *Socio-Economic Planning Sciences*, Vol. 95, Article 101953.
30. Tavana, M., Sohrabi, M., Rezaei, H., Sorooshian, S. and Mina, H. (2024) '[A Sustainable Circular Supply Chain Network Design Model for Electric Vehicle Battery Production using Internet of Things and Big Data](#),' *Expert Systems*, Vol. 41, No. 7, Article e13395.
31. 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.
32. Santos-Arteaga, F.J., Di Caprio, D., Tavana, M., Cucchiari, D., Campistol, J.M., Oppenheimer, F., Diekmann, F. and Revuelta, I. (2024) '[On the Capacity of Artificial Intelligence Techniques and Statistical Methods to Deal with Low-Quality Data in Medical Supply Chain Environments](#),' *Engineering Applications of Artificial Intelligence*, Vol. 133, Article 108610.
33. Santos-Arteaga, F.J., Di Caprio, D. and Tavana, M. (2024) '[Information and Communication Technologies and Labor Productivity: A Dynamic Slacks-Based Data Envelopment Analysis](#),' *Journal of the Knowledge Economy*, Vol. 15, No. 3, pp. 14076-14102.
34. 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.
35. Soltanifar, M. and Tavana, M. (2024) '[A Novel Pairwise Comparison Method with Linear Programming for Multi-Attribute Decision-Making](#),' *EURO Journal on Decision Processes*, Vol. 12, Article 100051.

2023

36. 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.
37. 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.
 38. 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.
 39. 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.
 40. 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.
 41. 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.
 42. 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.
 43. 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.
 44. 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.
 45. 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.
 46. 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.
 47. 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.
 48. 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.
 49. 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.
 50. 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.
 51. Amoozad Mahdiraji, H., Tavana, M. and Rezayari, 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.

52. 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.
 53. 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
54. 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.
 55. 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.
 56. 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.
 57. Tavana, M., Ghasrikhouzani, 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.
 58. 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.
 59. 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.
 60. 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.
 61. 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.
 62. 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.
 63. 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.
 64. 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.
 65. 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.
 66. 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.
 67. Pamucar, D., Macura, D., Tavana, M., Božanić, D. and Knežević, N. (2022) '[An Integrated Rough Group Multicriteria](#)

68. 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.
 69. 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.
 70. 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.
 71. 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.
 72. 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.
 73. 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.
 74. 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.
 75. 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 |
|------|
76. 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.
 77. 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.
 78. 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.
 79. 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.
 80. 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.
 81. 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.
 82. Tavana, M., Shaabani, A., Mansouri Mohammadabadi, S. and Varzгани, 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.

83. 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.
84. Tavana, M., Shaabani, A., Di Caprio, D. and Amiri, M. (2021) '[An Integrated and Comprehensive Fuzzy Multicriteria Model for Supplier Selection in Digital Supply Chains](#),' *Sustainable Operations and Computers*, Vol. 2, pp. 149-169.
85. Tavana, M., Shaabani, A., Santos-Arteaga, F.J. and Valaei, N. (2021) '[An Integrated Fuzzy Sustainable Supplier Evaluation and Selection Framework for Green Supply Chains in Reverse Logistics](#),' *Environmental Science and Pollution Research*, Vol. 28, No. 38, pp. 53953-53982.
86. Tavana, M., Shaabani, A., Di Caprio, D. and Bonyani, A. (2021) '[An Integrated Group Fuzzy Best-Worst Method and Combined Compromise Solution with Bonferroni Functions for Supplier Selection in Reverse Supply Chains](#),' *Cleaner Logistics and Supply Chain*, Vol. 2, Article 100009.
87. Khalili Nasr, A., Tavana, M., Alavi, B. and Mina, H. (2021) '[A Novel Fuzzy Multi-Objective Circular Supplier Selection and Order Allocation Model for Sustainable Closed-Loop Supply Chains](#),' *Journal of Cleaner Production*, Vol. 287, Article 124994.
88. Ebrahimi, B., Tavana, M. and Charles, V. (2021) '[A Note and New Extensions on “Interval Efficiency Measures in Data Envelopment Analysis with Imprecise Data”](#),' *Operational Research: An International Journal*, Vol. 21, No. 4, pp. 2719-2737.
89. Ebrahimi, B., Tavana, M., Kleine, A. and Dellnitz, A. (2021) '[An Epsilon-Based Data Envelopment Analysis Approach for Solving Performance Measurement Problems with Interval and Ordinal Dual-Role Factors](#),' *OR Spectrum*, Vol. 43, No. 4, pp. 1103-1124.
90. Alavi, B., Tavana, M. and Mina, H. (2021) '[A Dynamic Decision Support System for Sustainable Supplier Selection in Circular Economy](#),' *Sustainable Production and Consumption*, Vol. 27, pp. 905-920.
91. Rastegar, M., Tavana, M., Meraj, A. and Mina, H. (2021) '[An Inventory-Location Optimization Model for Equitable Influenza Vaccine Distribution in Developing Countries During the COVID-19 Pandemic](#),' *Vaccine*, Vol. 39, No. 3, pp. 495-504.
92. Gheisariha, E., Tavana, M., Jolai, F. and Rabiee, M. (2021) '[A Simulation-Optimization Model for Solving Flexible Flow Shop Scheduling Problems with Rework and Transportation](#),' *Mathematics and Computers in Simulation*, Vol. 180, pp. 152-177.
93. Khanjani Shiraz, R., Tavana, M. and Fukuyama, H. (2021) '[A Joint Chance-Constrained Data Envelopment Analysis Model with Random Output Data](#),' *Operational Research: An International Journal*, Vol. 21, No. 2, pp. 1255-1277.
94. Campos, E.A.R., Tavana, M., ten Caten, C.S., Bouzon, M. and Paula, I.C. (2021) '[A Grey-DEMATEL Approach for Analyzing Factors Critical to the Implementation of Reverse Logistics in the Pharmaceutical Care Process](#),' *Environmental Science and Pollution Research*, Vol. 28, No. 11, pp. 14156-14176.
95. Al Hadwer, A., Tavana, M., Gillis, D. and Rezania, D. (2021) '[A Systematic Review of Organizational Factors Impacting Cloud-based Technology Adoption Using Technology-Organization-Environment Framework](#),' *Internet of Things*, Vol. 15, Article 100407.
96. Kazemi, S., Tavana, M., Toloo, M. and Zenkevich, N.A. (2021) '[A Common Weights Model for Investigating Efficiency-Based Leadership in the Russian Banking Industry](#),' *RAIRO-Operations Research*, Vol. 55, No. 1, pp. 213-229.
97. Zare, H., Kamali Saraji, M., Tavana, M., Streimikiene, D. and Cavallaro, F. (2021) '[An Integrated Fuzzy Goal Programming - Theory of Constraints Model for Production Planning and Optimization](#),' *Sustainability*, Vol. 13, No. 22, 12728.
98. Aslani, B., Rabiee, M. and Tavana, M. (2021) '[An Integrated Information Fusion and Grey Multi-Criteria Decision-Making Framework for Sustainable Supplier Selection](#),' *International Journal of Systems Science: Operations and*

99. Mancini, D., Lombardi, R. and Tavana, M. (2021) '[Four Research Pathways for Understanding the Role of Smart Technologies in Accounting](#),' *Meditari Accountancy Research*, Vol. 29, No. 5, pp. 1041-1062.
 100. Pereira Soares, G., Luz Tortorella, G., Bouzon, M. and Tavana, M. (2021) '[A Fuzzy Maturity-Based Method for Lean Supply Chain Management Assessment](#),' *International Journal of Lean Six Sigma*, Vol. 12, No. 5, pp. 1017-1045.
- 2020
101. Tavana, M., Khalili-Damghani, K., Santos Arteaga, F.J. and Hashemi, A. (2020) '[A Malmquist Productivity Index for Network Production Systems in the Energy Sector](#),' *Annals of Operations Research*, Vol. 284, pp. 415-445.
 102. Tavana, M., Mousavi, S.M.H., Mina, H. and Salehian, F. (2020) '[A Dynamic Decision Support System for Evaluating Peer-to-Peer Rental Accommodations in the Sharing Economy](#),' *International Journal of Hospitality Management*, Vol. 91, Article 102653.
 103. Tavana, M., Khosrojerdi, G., Mina, H. and Rahman, A. (2020) '[A New Dynamic Two-Stage Mathematical Programming Model under Uncertainty for Project Evaluation and Selection](#),' *Computers and Industrial Engineering*, Vol. 149, Article 106795.
 104. Jafarian, A., Rabiee, M. and Tavana, M. (2020) '[A Novel Multi-Objective Co-Evolutionary Approach for Supply Chain Gap Analysis with Consideration of Uncertainties](#),' *International Journal of Production Economics*, Vol. 228, Article 107852.
 105. Vafadarnikjoo, A., Tavana, M., Botelho, T. and Chalvatzis, K. (2020) '[A Neutrosophic Enhanced Best-Worst Method for Considering Decision-Makers' Confidence in the Best and Worst Criteria](#),' *Annals of Operations Research*, Vol. 289, pp. 391-418.
 106. Farughi, H., Tavana, M., Mostafayi, S. and Santos Arteaga, F.J. (2020) '[A Novel Optimization Model for Designing Compact, Balanced, and Contiguous Healthcare Districts](#),' *Journal of the Operational Research Society*, Vol. 71, No. 11, pp. 1740-1759.
 107. Kaviani, M.A., Tavana, M., Kumar, A., Michnik, J., Niknam, R. and Campos, E.A.R. (2020) '[An Integrated Framework for Evaluating the Barriers to Successful Implementation of Reverse Logistics in the Automotive Industry](#),' *Journal of Cleaner Production*, Vol. 272, Article 122714.
 108. Yazdani, M., Tavana, M., Pamučar, D. and Chatterjee, P. (2020) '[A Rough Based Multi-Criteria Evaluation Method for Healthcare Waste Disposal Location Decisions](#),' *Computers and Industrial Engineering*, Vol. 143, Article 106394.
 109. Santos-Arteaga, F.J., Tavana, M. and Di Caprio, D. (2020) '[A New Model for Evaluating Subjective Online Ratings with Uncertain Intervals](#),' *Expert Systems with Applications*, Vol. 139, Article 112850.
 110. Ebrahimi, B., Tavana, M., Toloo, M. and Charles, V. (2020) '[A Novel Mixed Binary DEA Model for Ranking Decision-Making Units with Preference Information](#),' *Computers and Industrial Engineering*, Vol. 149, Article 106720.
 111. Hashemi Petrudi, S.H., Tavana, M. and Abdi, M. (2020) '[A Comprehensive Framework for Analyzing Challenges in Humanitarian Supply Chain Management: A Case Study of the Iranian Red Crescent Society](#),' *International Journal of Disaster Risk Reduction*, Vol. 42, Article 101340.
 112. Ebrahimi, B., Dellnitz, A., Kleine, A. and Tavana, M. (2020) '[A Novel Method for Solving Data Envelopment Analysis Problems with Weak Ordinal Data using Robust Measures](#),' *Expert Systems with Applications*, Vol. 164, Article 113835.
 113. Khanjani Shiraz, R., Tavana, M. and Fukuyama, H. (2020) '[A Random-Fuzzy Portfolio Selection DEA Model using Value-at-risk and Conditional Value-at-risk Criteria](#),' *Soft Computing*, Vol. 24, 17167-17186.
 114. Zaretab, A., Hajipour, V. and Tavana, M. (2020) '[Redundancy Allocation Problem with Multi-State Component Systems and Reliable Supplier Selection](#),' *Reliability Engineering and System Safety*, Vol. 193, Article 106629.

115. Jafari Songhori, M., Tavana, M. and Terano, T. (2020) '[Product Development Team Formation: Effects of Organizational- and Product-Related Factors](#),' *Computational and Mathematical Organization Theory*, Vol. 26, No. 1, pp. 88-122.
 116. Tavana, M., Amoozad Mahdiraji, H., Beheshti, M. and Abbasi Kamardi, A. (2020) '[Optimal Strategic Alliance in Multi-Echelon Supply Chains with Open Innovation](#),' *Managerial and Decision Economics*, Vol. 41, No. 7, pp. 1365-1384.
 117. Tavana, M., Hajipour, V. and Oveisi, S. (2020) '[IoT-based Enterprise Resource Planning: Challenges, Open Issues, Applications, Architecture, and Future Research Directions](#),' *Internet of Things*, Vol. 11, Article 100262.
 118. Tavana, M. and Hajipour, V. (2020) '[A Practical Review and Taxonomy of Fuzzy Expert Systems Methods and Applications](#),' *Benchmarking: An International Journal*, Vol. 27, No. 1, pp. 81-136.
 119. Aziz, A.A., Mousavi, S.M., Tavana, M. and Niaki, S.T.A. (2020) '[An Investigation of the Robustness in the Travelling Salesman Problem Routes Using Special Structured Matrices](#),' *International Journal of Systems Science: Operations and Logistics*, Vol. 7, No. 2, pp. 172-181.
 120. Hajipour, V., Tavana, M., Santos-Arteaga, F.J., Alinezhad, A. and Di Caprio, D. (2020) '[An Efficient Controlled Elitism Non-Dominated Sorting Genetic Algorithm for Multi-Objective Supplier Selection under Fuzziness](#),' *Journal of Computational Design and Engineering*, Vol. 7, No. 4, pp. 469-488.
 121. Kaviani, M.A., Tavana, M., Kowsari, F. and Rezapour, R. (2020) '[Supply Chain Resilience: A Benchmarking Model for Vulnerability and Capability Assessment in the Automotive Industry](#),' *Benchmarking: An International Journal*, Vol. 27, No. 6, pp. 1929-1949.
 122. Santos-Arteaga, F.J., Tavana, M., Torrecillas, C. and Di Caprio, D. (2020) '[Innovation Dynamics and Financial Stability: A European Union Perspective](#),' *Technological and Economic Development of Economy*, Vol. 26, No. 6, pp. 1366-1398.
 123. Tavana, M., Shaabani, A., Santos-Arteaga, F.J. and Raeesi Vanani, I. (2020) '[A Review of Uncertain Decision-Making Methods in Energy Management using Text Mining and Data Analytics](#),' *Energies*, 13, 3947.
- | |
|------|
| 2019 |
|------|
124. Tavana, M., Khalili-Damghani, K., Santos Arteaga, F.J. and Hossaini, A. (2019) '[A Fuzzy Multi-Objective Multi-Period Network DEA Model for Efficiency Measurement in Oil Refineries](#),' *Computers and Industrial Engineering*, Vol. 135, pp. 143-155.
 125. Tavana, M., Khosrojerdi, G., Mina, H. and Rahman, A. (2019) '[A Hybrid Mathematical Programming Model for Optimal Project Portfolio Selection using Fuzzy Inference System and Analytic Hierarchy Process](#),' *Evaluation and Program Planning*, Vol. 77.
 126. Santos Arteaga, F.J., Tavana, M., Di Caprio, D. and Toloo, M. (2019) '[A Dynamic Multi-Stage Slacks-Based Measure Data Envelopment Analysis Model with Knowledge Accumulation and Technological Evolution](#),' *European Journal of Operational Research*, Vol. 278, No. 2, pp. 448-462.
 127. Tavana, M., Khanjani Shiraz, R. and Di Caprio, D. (2019) '[A Chance-Constrained Portfolio Selection Model with Random-Rough Variables](#),' *Neural Computing and Applications*, Vol. 31, No. S2, pp. 931-945.
 128. Hajipour, V., Tavana, M., Di Caprio, D., Akhgar, M. and Jabbari, Y. (2019) '[An Optimization Model for Traceable Closed-Loop Supply Chain Networks](#),' *Applied Mathematical Modelling*, Vol. 71, pp. 673-699.
 129. Talaie-Khoei, A., Tavana, M. and Wilson, J.M. (2019) '[A Predictive Analytics Framework for Identifying Patients at Risk of Developing Multiple Medical Complications Caused by Chronic Diseases](#),' *Artificial Intelligence in Medicine*, Vol. 101.
 130. Zare, H., Tavana, M., Mardani, A., Masoudian, S. and Kamali Saraji, M. (2019) '[A Hybrid Data Envelopment Analysis and Game Theory Model for Performance Measurement in Healthcare](#),' *Health Care Management Science*, Vol. 22, No. 3, pp. 475-488.
 131. Santos-Arteaga, F.J., Torrecillas, C. and Tavana, M. (2019) '[Dynamic Effects of Learning on the Innovative Outputs](#)

[and Productivity in Spanish Multinational Enterprises,](#)' *Journal of Technology Transfer*, Vol. 44, No. 1, pp. 97-131.

132. Aghayi, N. and Tavana, M. (2019) '[A Novel Three-Stage Distance-Based Consensus Ranking Method,](#)' *Journal of Industrial Engineering International*, Vol. 15, No. 1, pp. 17-24.
 133. Mousavi, S.M., Alikar, N., Tavana, M. and Di Caprio, D. (2019) '[An Improved Particle Swarm Optimization Model for Solving Homogeneous Discounted Series-Parallel Redundancy Allocation Problems,](#)' *Journal of Intelligent Manufacturing*, Vol. 30, No. 3, pp. 1175-1194.
 134. Nasiri, M.M., Ranjbar, M., Tavana, M., Santos Arteaga, F.J. and Yazdanparast, R. (2019) '[A Novel Hybrid Method for Selecting Soccer Players during the Transfer Season,](#)' *Expert Systems*, Vol. 36, No. 1, pp. 1-19.
 135. Mousavi, S.M., Tavana, M., Alikar, N. and Zandieh, M. (2019) '[A Tuned Hybrid Intelligent Fruit Fly Optimization Algorithm for Fuzzy Rule Generation and Classification,](#)' *Neural Computing and Applications*, Vol. 31, No. 3, pp. 873-885.
 136. Razavi Hajiagha, S.H., Amoozad Mahdiraji, H. and Tavana, M. (2019) '[A New Bi-Level Data Envelopment Analysis Model for Efficiency Measurement and Target Setting,](#)' *Measurement*, Vol. 147.
 137. Di Caprio, D., Santos-Arteaga, F.J. and Tavana, M. (2019) '[The Role of Anticipated Emotions and the Value of Information in Determining Sequential Search Incentives,](#)' *Operations Research Perspectives*, Vol. 6.
 138. Shashi, Tavana, M., Shabani, A. and Singh, R. (2019) '[The Impact of Integration Practices on Supply Chain Value Addition and Firm Performance,](#)' *Journal of Industrial Engineering International*, Vol. 15, No. Suppl 1, pp. S39-S51.
 139. Asadi Bagloee, S., Tavana, M., Withers, G., Patriksson, M. and Asadi, M. (2019) '[Tradable Mobility Permit with Bitcoin and Ethereum – A Blockchain Application in Transportation,](#)' *Internet of Things*, Vol. 8, Article 100103.
 140. Toloo, M., Tavana, M. and Santos-Arteaga, F.J. (2019) '[An Integrated Data Envelopment Analysis and Mixed Integer Non-Linear Programming Model for Linearizing the Common Set of Weights,](#)' *Central European Journal of Operations Research*, Vol. 27, No. 4, pp. 887-904.
 141. Ebrahimnejad, A., Tavana, M., Nasser, S.H. and Gholami, O. (2019) '[A New Method for Solving Dual DEA Problems with Fuzzy Stochastic Data,](#)' *International Journal of Information Technology and Decision Making*, Vol. 18, No. 1, pp. 147-170.
 142. Aghayi, N., Tavana, M. and Maleki, B. (2019) '[A Malmquist Productivity Index with the Directional Distance Function and Uncertain Data,](#)' *Scientia Iranica*, Vol. 26, No. 6, pp. 3819-3834.
- 2018
143. Tavana, M., Santos-Arteaga, F.J. and Di Caprio, D. (2018) '[The Value of Information as a Verification and Regret-Preventing Mechanism in Algorithmic Search Environments,](#)' *Information Sciences*, Vol. 448-449, pp. 187-214.
 144. Tavana, M., Di Caprio, D. and Santos-Arteaga, F.J. (2018) '[An Extended Stochastic VIKOR Model with Decision Maker's Attitude Towards Risk,](#)' *Information Sciences*, Vol. 432, pp. 301-318.
 145. Tavana, M., Abtahi, A.R., Di Caprio, D., Hashemi, R. and Yousefi-Zenouz, R. (2018) '[An Integrated Location-Inventory-Routing Humanitarian Supply Chain Network with Pre- and Post-Disaster Management Considerations,](#)' *Socio-Economic Planning Sciences*, Vol. 64, pp. 21-37.
 146. Tavana, M., Ebrahimnejad, A., Santos-Arteaga, F.J., Mansourzadeh, S.M. and Kazemi Matin, R. (2018) '[A Hybrid DEA-MOLP Model for Public School Assessment and Closure Decision in the City of Philadelphia,](#)' *Socio-Economic Planning Sciences*, Vol. 61, pp. 70-89.
 147. Tavana, M., Khalili-Damghani, K., Santos Arteaga, F.J., Mahmoudi, R. and Hafezalkotob, A. (2018) '[Efficiency Decomposition and Measurement in Two-Stage Fuzzy DEA Models Using a Bargaining Game Approach,](#)' *Computers and Industrial Engineering*, Vol. 118, pp. 394-408.
 148. Tavana, M., Shahdi-Pashaki, S., Teymourian, E., Santos-Arteaga, F.J. and Komaki, M. (2018) '[A Discrete Cuckoo](#)

- [Optimization Algorithm for Consolidation in Cloud Computing](#), *Computers and Industrial Engineering*, Vol. 115, pp. 495-511.
149. Tavana, M., Abtahi, A.R., Di Caprio, D. and Poortarigh, M. (2018) '[An Artificial Neural Network and Bayesian Network Model for Liquidity Risk Assessment in Banking](#)', *Neurocomputing*, Vol. 275, pp. 2525-2554.
 150. Tavana, M., Izadikhah, M., Di Caprio, D. and Farzipoor Saen, R. (2018) '[A New Dynamic Range Directional Measure for Two-Stage Data Envelopment Analysis Models with Negative Data](#)', *Computers and Industrial Engineering*, Vol. 115, pp. 427-448.
 151. Tavana, M., Khalili-Damghani, K., Di Caprio, D. and Oveisi, Z. (2018) '[An Evolutionary Computation Approach to Solving Repairable Multi-State Multi-Objective Redundancy Allocation Problems](#)', *Neural Computing and Applications*, Vol. 30, No. 1, pp. 127-139.
 152. Tavana, M., Zareinejad, M. and Santos-Arteaga, F.J. (2018) '[An Intuitionistic Fuzzy-Grey Superiority and Inferiority Ranking Method for Third-Party Reverse Logistics Provider Selection](#)', *International Journal of Systems Science: Operations and Logistics*, Vol. 5, No. 2, pp. 175-194.
 153. Tavana, M., Di Caprio, D. and Santos-Arteaga, F.J. (2018) '[Strategic Signaling and New Technologically Superior Product Introduction: A Game-Theoretic Model with Simulation](#)', *Technological and Economic Development of Economy*, Vol. 24, No. 4, pp. 1466-1498.
 154. Tavana, M., Santos-Arteaga, F.J., Mahmoodirad, A., Niroomand, S. and Sanei, M. (2018) '[Multi-Stage Supply Chain Network Solution Methods: Hybrid Metaheuristics and Performance Measurement](#)', *International Journal of Systems Science: Operations and Logistics*, Vol. 5, No. 4, pp. 356-373.
 155. Sodenkamp, M.A., Tavana, M. and Di Caprio, D. (2018) '[An Aggregation Method for Solving Group Multi-Criteria Decision-Making Problems with Single-Valued Neutrosophic Sets](#)', *Applied Soft Computing*, Vol. 71, pp. 715-727.
 156. Izadikhah, M., Tavana, M., Di Caprio, D. and Santos-Arteaga, F.J. (2018) '[A Novel Two-Stage DEA Production Model with Freely Distributed Initial Inputs and Shared Intermediate Outputs](#)', *Expert Systems with Applications*, Vol. 99, pp. 213-230.
 157. Esmaeliani, M., Tavana, M., Santos-Arteaga, F.J. and Vali, M. (2018) '[A Novel Genetic Algorithm Based Method for Solving Continuous Nonlinear Optimization Problems Through Subdividing and Labeling](#)', *Measurement*, Vol. 115, pp. 27-38.
 158. Banakar, Z., Tavana, M., Huff, B. and Di Caprio, D. (2018) '[A Bank Merger Predictive Model using the Smoluchowski Stochastic Coagulation Equation and Reverse Engineering](#)', *International Journal of Bank Marketing*, Vol. 36, No. 4, pp. 634-662.
 159. Ebrahimi, B., Tavana, M., Rahmani, M. and Santos-Arteaga, F.J. (2018) '[Efficiency Measurement in Data Envelopment Analysis in the Presence of Ordinal and Interval Data](#)', *Neural Computing and Applications*, Vol. 30, No. 6, pp. 1971-1982.
 160. Razavi Hajiagha, S.H., Amoozad Mahdiraji, H., Tavana, M. and Sadat Hashemi, S. (2018) '[A Novel Common Set of Weights Method for Multi-Period Efficiency Measurement Using Mean-Variance Criteria](#)', *Measurement*, Vol. 129, pp. 569-581.
 161. Khanjani Shiraz, R., Tavana, M. and Di Caprio, D. (2018) '[Chance-Constrained Data Envelopment Analysis Modeling with Random-Rough Data](#)', *RAIRO - Operations Research*, Vol. 52, pp. 259-284.
 162. Chi  n, S.J., Charles, V. and Tavana, M. (2018) '[Impact of Incentive Schemes and Personality-Tradeoffs on Two-Agent Coopetition with Numerical Estimations](#)', *Measurement*, Vol. 125, pp. 182-195.
 163. Mobin, M., Mousavi, S.M., Komaki, M. and Tavana, M. (2018) '[A Hybrid Desirability Function Approach for Tuning Parameters in Evolutionary Optimization Algorithms](#)', *Measurement*, Vol. 114, pp. 417-427.

164. Tavana, M., Di Caprio, D. and Santos-Arteaga, F.J. (2017) '[A Multi-criteria Perception-Based Strict-Ordering Algorithm for Identifying the Most-Preferred Choice among Equally-Evaluated Alternatives](#),' *Information Sciences*, Vol. 381, pp. 322-340.
165. Tavana, M., Yazdani, M. and Di Caprio, D. (2017) '[An Application of an Integrated ANP-QFD Framework for Sustainable Supplier Selection](#),' *International Journal of Logistics: Research and Applications*, Vol. 20, No. 3, pp. 254-275.
166. Tavana, M., Santos-Arteaga, F.J. and Di Caprio, D. (2017) '[The Effect of Preference Similarity on the Formation of Clusters and the Connectivity of Social Networks](#),' *Computers in Human Behavior*, Vol. 72, pp. 208-221.
167. Tavana, M., Khalili-Damghani, K., Santos-Arteaga, F.J. and Zandi, M.H. (2017) '[Drone Shipping versus Truck Delivery in a Cross-Docking System with Multiple Fleets and Products](#),' *Expert Systems with Applications*, Vol. 72, pp. 93-107.
168. Tavana, M., Santos Arteaga, F.J., Mohammadi, S. and Alimohammadi, M. (2017) '[A Fuzzy Multi-Criteria Spatial Decision Support System for Solar Power Location Planning](#),' *Energy Strategy Reviews*, Vol. 18, pp. 93-105.
169. Tavana, M., Shabanpour, H., Yousefi, S. and Farzipoor Saen, R. (2017) '[A Hybrid Goal Programming and Dynamic Data Envelopment Analysis Framework for Sustainable Supplier Evaluation](#),' *Neural Computing and Applications*, Vol. 28, No. 12, pp. 3683-3696.
170. Toloo, M. and Tavana, M. (2017) '[A Novel Method for Selecting a Single Efficient Unit in Data Envelopment Analysis without Explicit Inputs/Outputs](#),' *Annals of Operations Research*, Vol. 253, No. 1, pp. 657-681.
171. Esmaeliani, M., Tavana, M., Di Caprio, D. and Ansari, R. (2017) '[A Multiple Correspondence Analysis Model for Evaluating Technology Foresight Methods](#),' *Technological Forecasting and Social Change*, Vol. 125, pp. 188-205.
172. Santos-Arteaga, F.J., Di Caprio, D., Tavana, M. and O'Connor, A. (2017) '[Innovation Dynamics and Labor Force Restructuring with Asymmetrically Developed National Innovation Systems](#),' *International Business Review*, Vol. 26, No. 1, pp. 36-56.
173. Hatami-Marbini, A., Agrell, P.J., Tavana, M. and Khoshnevis, P. (2017) '[A Flexible Cross-Efficiency Fuzzy Data Envelopment Analysis Model for Sustainable Sourcing](#),' *Journal of Cleaner Production*, Vol. 142, No. 4, pp. 2761-2779.
174. Khanjani Shiraz, R., Tavana, M., Fukuyama, H. and Di Caprio, D. (2017) '[Fuzzy Chance-Constrained Geometric Programming: The Possibility, Necessity and Credibility Approaches](#),' *Operational Research: An International Journal*, Vol. 17, No. 1, pp. 67-97.
175. Khalili-Damghani, K., Tavana, M., Santos-Arteaga, F.J. and Ghanbarzad-Dashti, M. (2017) '[A Customized Genetic Algorithm for Solving Multi-Period Cross-Dock Truck Scheduling Problems](#),' *Measurement*, Vol. 108, pp. 101-118.
176. Di Caprio, D., Santos-Arteaga, F.J. and Tavana, M. (2017) '[The Emergence of Inclusive and Exclusive Virtual Communities Determined by the Preferences of their Users](#),' *Journal of Ambient Intelligence and Humanized Computing*, Vol. 8, No. 3, pp. 315-328.
177. Alikar, N., Mousavi, S.M., Tavana, M. and Niaki, S.T.A. (2017) '[A Multi-Objective Multi-State Series-Parallel Redundancy Allocation Model Using Tuned Meta-Heuristic Algorithms](#),' *International Journal of Systems Science: Operations and Logistics*, Vol. 4, No. 3, pp. 275-296.
178. Di Caprio, D., Santos-Arteaga, F.J. and Tavana, M. (2017) '[A Novel Decision Support Framework for Computing Expected Utilities from Linguistic Evaluations](#),' *International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems*, Vol. 25, No. 6, pp. 1005-1018.
179. Bagloee, S.A., Heshmati, M., Tavana, M. and Di Caprio, D. (2017) '[A Logit-Based Model for Measuring the Effects of Transportation Infrastructure on Land Value](#),' *Transportation Planning and Technology*, Vol. 40, No. 2, pp. 143-166.
180. Santos-Arteaga, F.J., Di Caprio, D., Tavana, M. and O'Connor, A. (2017) '[Formalizing the Demand for Technological Innovations: Rational Herds, Market Frictions and Network Effects](#),' *International Journal of Innovation Management*, Vol. 21, No. 2, pp. 1750018.1-1750018.43.

181. Alikar, N., Mousavi, S.M., Ghazilla, R.A.R., Tavana, M. and Olugu, E.U. (2017) '[A Bi-Objective Multi-Period Series-Parallel Inventory-Redundancy Allocation Problem with Time Value of Money and Inflation Considerations](#),' *Computers and Industrial Engineering*, Vol. 104, pp. 51-67.
 182. Khanjani Shiraz, R., Charles, V., Tavana, M. and Di Caprio, D. (2017) '[A Redundancy Detection Algorithm for Fuzzy Stochastic Multi-Objective Linear Fractional Programming Problems](#),' *Stochastic Analysis and Applications*, Vol. 35, No. 1, pp. 40-62.
 183. Alikar, N., Mousavi, S.M., Ghazilla, R.A.R., Tavana, M. and Olugu, E.U. (2017) '[Application of the NSGA-II Algorithm to A Multi-Period Inventory-Redundancy Allocation Problem in a Series-Parallel System](#),' *Reliability Engineering and System Safety*, Vol. 160, pp. 1-10.
 184. Mardani, A., Nilashi, M., Antucheviciene, J., Tavana, M., Bausys, R. and Ibrahim, O. (2017) '[Recent Fuzzy Generalisations of Rough Sets Theory: A Systematic Review and Methodological Critique of the Literature](#),' *Complexity*, Vol. 2017, Article ID 1608147, pp. 1-33.
 185. Bagloee, S.A., Tavana, M., Di Caprio, D., Asadi, M. and Heshmati, M. (2017) '[A Multi-User Decision Support System for Online City Bus Tour Planning](#),' *Journal of Modern Transportation*, Vol. 25, No. 2, pp. 59-73.
- 2016
186. Tavana, M., Di Caprio, D. and Santos-Arteaga, F.J. (2016) '[Modeling Sequential Information Acquisition Behavior in Rational Decision Making](#),' *Decision Sciences*, Vol. 47, No. 4, pp. 720-761.
 187. Tavana, M., Santos-Arteaga, F.J., Di Caprio, D. and Tierney, K. (2016) '[Modeling Signal-Based Decisions in Online Search Environments: A Non-Recursive Forward-Looking Approach](#),' *Information and Management*, Vol. 53, No. 2, pp. 207-226.
 188. Tavana, M., Di Caprio, D. and Santos-Arteaga, F.J. (2016) '[Loyal Customer Bases as Innovation Disincentives for Duopolistic Firms Using Strategic Signaling and Bayesian Analysis](#),' *Annals of Operations Research*, Vol. 244, No. 2, pp. 647-676.
 189. Tavana, M., Li, Z., Mobin, M., Komaki, G.M. and Teymourian, E. (2016) '[Multi-Objective Control Chart Design Optimization Using NSGA-III and MOPSO Enhanced with DEA and TOPSIS](#),' *Expert Systems with Applications*, Vol. 53, pp. 17-39.
 190. Tavana, M., Zareinejad, M., Di Caprio, D. and Kaviani, M.A. (2016) '[An Integrated Intuitionistic Fuzzy AHP and SWOT Method for Outsourcing Reverse Logistics](#),' *Applied Soft Computing*, Vol. 40, pp. 544-557.
 191. Tavana, M., Kiani Mavi, R., Santos-Arteaga, F.J. and Rasti Doust, E. (2016) '[An Extended VIKOR Method Using Stochastic Data and Subjective Judgments](#),' *Computers and Industrial Engineering*, Vol. 97, pp. 240-247.
 192. Tavana, M., Fallahpour, A., Di Caprio, D. and Santos-Arteaga, F.J. (2016) '[A Hybrid Intelligent Fuzzy Predictive Model with Simulation for Supplier Evaluation and Selection](#),' *Expert Systems with Applications*, Vol. 61, pp. 129-144.
 193. Tavana, M., Liu, W., Elmore, P., Petry, F.E. and Bourgeois, B.S. (2016) '[A Practical Taxonomy of Methods and Literature for Managing Uncertain Spatial Data in Geographic Information Systems](#),' *Measurement*, Vol. 81, pp. 123-162.
 194. Tavana, M., Zareinejad, M., Santos-Arteaga, F.J. and Kaviani, M.A. (2016) '[A Conceptual Analytic Network Model for Evaluating and Selecting Third-Party Reverse Logistics Providers](#),' *International Journal of Advanced Manufacturing Technology*, Vol. 86, No. 5, pp. 1705-1721.
 195. Tavana, M., Kaviani, M.A., Di Caprio, D. and Rahpeyma, B. (2016) '[A Two-Stage Data Envelopment Analysis Model for Measuring Performance in Three-Level Supply Chains](#),' *Measurement*, Vol. 78, pp. 322-333.
 196. Tavana, M., Kazemi, M.R., Vafadarnikjoo, A. and Mobin, M. (2016) '[An Artificial Immune Algorithm for Ergonomic Product Classification Using Anthropometric Measurements](#),' *Measurement*, Vol. 94, pp. 621-629.
 197. Tavana, M., Di Caprio, D. and Santos-Arteaga, F.J. (2016) '[Managing Team Coordination Incentives: The Effect of](#)

[Payoff Differentials](#), *Journal of CENTRUM Cathedra: The Business and Economics Research Journal*, Vol. 9, No. 1, pp. 52-70.

198. Sodenkamp, M.A., Tavana, M. and Di Caprio, D. (2016) '[Modeling Synergies in Multi-Criteria Supplier Selection and Order Allocation: An Application to Commodity Trading](#)', *European Journal of Operational Research*, Vol. 254, No. 3, pp. 859-874.
 199. Khalili-Damghani, K., Tavana, M. and Santos-Arteaga, F.J. (2016) '[A Comprehensive Fuzzy DEA Model for Emerging Market Assessment and Selection Decisions](#)', *Applied Soft Computing*, Vol. 38, pp. 676-702.
 200. Khanjani Shiraz, R., Tavana, M., Di Caprio, D. and Fukuyama, H. (2016) '[Solving Geometric Programming Problems with Normal, Linear and Zigzag Uncertainty Distributions](#)', *Journal of Optimization Theory and Applications*, Vol. 170, No. 1, pp. 243-265.
 201. Hajipour, V., Fattahi, P., Tavana, M. and Di Caprio, D. (2016) '[Multi-Objective Multi-Layer Congested Facility Location-Allocation Problem Optimization with Pareto-based Meta-heuristics](#)', *Applied Mathematical Modelling*, Vol. 40, No. 7-8, pp. 4948-4969.
 202. Ebrahimnejad, A., Tavana, M. and Alrezaamiri, H. (2016) '[A Novel Artificial Bee Colony Algorithm for Shortest Path Problems with Fuzzy Arc Weights](#)', *Measurement*, Vol. 78, pp. 322-333.
 203. Shahverdi, R., Tavana, M., Ebrahimnejad, A., Zahedi, K. and Omranpour, H. (2016) '[An Improved Method for Edge Detection and Image Segmentation Using Fuzzy Cellular Automata](#)', *Cybernetics and Systems*, Vol. 47, No. 3, pp. 161-179.
 204. Khanjani Shiraz, R., Fukuyama, H., Tavana, M., and Di Caprio, D. (2016) '[An Integrated Data Envelopment Analysis and Free Disposal Hull Framework for Cost-Efficiency Measurement Using Rough Sets](#)', *Applied Soft Computing*, Vol. 46, pp. 204-219.
 205. Ebrahimnejad, A., Tavana, M. and Santos-Arteaga, F.J. (2016) '[An Integrated Data Envelopment Analysis and Simulation Method for Group Consensus Ranking](#)', *Mathematics and Computers in Simulation*, Vol. 119, pp. 1-17.
 206. Mousavi, S.M., Sadeghi, J., Akhavan Niaki, S.T. and Tavana, M. (2016) '[A Bi-Objective Inventory Optimization Model under Inflation and Discount Using Tuned Pareto-Based Algorithms: NSGA-II, NPGA, and MOPSO](#)', *Applied Soft Computing*, Vol. 43, pp. 57-72.
 207. Bagloee, S.A., Tavana, M., Asadi, M. and Oliver, T. (2016) '[Autonomous Vehicles: Challenges, Opportunities and Future Implications for Transportation Policies](#)', *Journal of Modern Transportation*, Vol. 24, No. 4, pp. 284-303.
 208. Aghayi, N., Tavana, M. and Raayatpanah, M.A. (2016) '[Robust Efficiency Measurement with Common Set of Weights under Varying Degrees of Conservatism and Data Uncertainty](#)', *European Journal of Industrial Engineering*, Vol. 10, No. 3, pp. 385-405.
 209. Di Caprio, D., Santos-Arteaga, F.J. and Tavana, M. (2016) '[An Optimal Sequential Information Acquisition Model Subject to a Heuristic Assimilation Constraint](#)', *Benchmarking: An International Journal*, Vol. 23, No. 4, pp. 937-982.
 210. Khodabakhshi, M., Tavana, M. and Baghbani Abootaleb, F. (2016) '[Optimistic and Pessimistic Performance and Congestion Analysis in Fuzzy Data Envelopment Analysis](#)', *International Journal of Logistics Systems and Management*, Vol. 24, No. 1, pp. 1-17.
 211. Roy, A., Tavana, M., Banerjee, S. and Di Caprio, D. (2016) '[A Secured Context-Aware Tourism Recommender System Using Artificial Bee Colony and Simulated Annealing](#)', *International Journal of Applied Management Science*, Vol. 8, No. 2, pp. 93-113.
- 2015
212. Tavana, M., Di Caprio, D., Santos-Arteaga, F.J. and O'Connor, A. (2015) '[A Novel Entropy-Based Decision Support Framework for Uncertainty Resolution in the Initial Subjective Evaluations of Experts: The NATO Enlargement Problem](#)', *Decision Support Systems*, Vol. 74, pp. 135-149.

213. Tavana, M., Khalili-Damghani, K. and Rahmatian, R. (2015) '[A Hybrid Fuzzy MCDM Method for Measuring the Performance of Publicly Held Pharmaceutical Companies](#),' *Annals of Operations Research*, Vol. 226, No. 1, pp. 589-621.
214. Tavana, M., Di Caprio, D. and Santos-Arteaga, F.J. (2015) '[An Ordinal Ranking Criterion for the Subjective Evaluation of Alternatives and Exchange Reliability](#),' *Information Sciences*, Vol. 317, pp. 295-314.
215. Tavana, M., Keramatpour, M., Santos-Arteaga, F.J. and Ghorbanian, E. (2015) '[A Fuzzy Hybrid Project Portfolio Selection Method Using Data Envelopment Analysis, TOPSIS and Integer Programming](#),' *Expert Systems with Applications*, Vol. 42, No. 22, pp. 8432-8444.
216. Tavana, M., Di Caprio, D. and Santos-Arteaga, F.J. (2015) '[A Bilateral Exchange Model: The Paradox of Quantifying the Linguistic Values of Qualitative Characteristics](#),' *Information Sciences*, Vol. 296, pp. 201-218.
217. Tavana, M., Zarook, Y. and Santos-Arteaga, F.J. (2015) '[An Integrated Three-Stage Maintenance Scheduling Model for Unrelated Parallel Machines with Aging Effect and Multi-Maintenance Activities](#),' *Computers and Industrial Engineering*, Vol. 83, pp. 226-236.
218. Esmaeliani, M., Tavana, M., Santos-Arteaga, F.J. and Mohammadi, S. (2015) '[A Multicriteria Spatial Decision Support System for Solving Emergency Service Station Location Problems](#),' *International Journal of Geographical Information Science*, Vol. 29, No. 7, pp. 1187-1213.
219. Khalili-Damghani, K., Tavana, M., Abtahi, A.R. and Santos Arteaga, F.J. (2015) '[Solving Multi-Mode Time-Cost-Quality Trade-Off Problems under Generalized Precedence Relations](#),' *Optimization Methods and Software*, Vol. 30, No. 5, pp. 965-1001.
220. Kandjani, H., Tavana, M., Bernus, P., Wen, L. and Mohtarami, A. (2015) '[Using Extended Axiomatic Design Theory to Reduce Complexities in Global Software Development Projects](#),' *Computers in Industry*, Vol. 67, pp. 86-96.
221. Khalili-Damghani, K., Tavana, M., Santos-Arteaga, F.J. and Mohtasham, S. (2015) '[A Dynamic Multi-Stage Data Envelopment Analysis Model with Application to Energy Consumption in the Cotton Industry](#),' *Energy Economics*, Vol. 51, pp. 320-328.
222. Hashemi, S.H., Karimi, A. and Tavana, M. (2015) '[An Integrated Green Supplier Selection Approach with Analytic Network Process and Improved Grey Relational Analysis](#),' *International Journal of Production Economics*, Vol. 159, pp. 178-191.
223. Khalili-Damghani, K., Tavana, M. and Haji-Saami, E. (2015) '[A Data Envelopment Analysis Model with Interval Data and Undesirable Output for Combined Cycle Power Plant Performance Assessment](#),' *Expert Systems with Applications*, Vol. 42, No. 2, pp. 760-773.
224. Hatami-Marbini, A., Tavana, M., Agrell, P.J., Hosseinzadeh Lotfi, F. and Ghelej Beigi, Z. (2015) '[A Common-Weights DEA Model for Centralized Resource Reduction and Target Setting](#),' *Computers and Industrial Engineering*, Vol. 79, pp. 195-203.
225. Mohtashami, A., Tavana, M., Santos-Arteaga, F.J. and Fallahian-Najafabadi, A. (2015) '[A Novel Multi-Objective Meta-Heuristic Model for Solving Cross-Docking Scheduling Problems](#),' *Applied Soft Computing*, Vol. 31, pp. 30-47.
226. Ardakani, M.K. and Tavana, M. (2015) '[A Incremental Approach with the A* Algorithm for Speeding-up the Optimization Process in Dynamic Shortest Path Problems](#),' *Measurement*, Vol. 60, pp. 299-307.
227. Hatami-Marbini, A., Tavana, M., Gholami, K. and Ghelej Beigi, Z. (2015) '[A Bounded Data Envelopment Analysis Model in a Fuzzy Environment with an Application to Safety in the Semiconductor Industry](#),' *Journal of Optimization Theory and Applications*, Vol. 164, No. 2, pp. 679-701.
228. Ghapanchi, A.H. and Tavana, M. (2015) '[A Longitudinal Study of the Impact of Open Source Software Project Characteristics on Positive Outcomes](#),' *Information Systems Management*, Vol. 32, No. 4, pp. 285-298.

229. Hajipour, V., Kheirkhah, A., Tavana, M. and Absi, N. (2015) '[Novel Pareto-Based Meta-Heuristics for Solving Multi-Objective Multi-Item Capacitated Lot-Sizing Problems](#),' *International Journal of Advanced Manufacturing Technology*, Vol. 80, No. 1-4, pp. 31-45.
 230. Khanjani Shiraz, R., Tavana, M., Di Caprio, D. and Vakili, J. (2015) '[An Improved Non-Convex Model for Discriminating Efficient Units in Free Disposal Hull](#),' *Measurement*, Vol. 69, pp. 222-235.
 231. Di Caprio, D., Santos-Arteaga, F.J. and Tavana, M. (2015) '[Technology Development through Knowledge Assimilation and Innovation: A European Perspective](#),' *Journal of Global Information Management*, Vol. 23, No. 2, pp. 48-93.
 232. Ebrahimnejad, A., Tavana, M. and Manosourzadeh, S.M. (2015) '[An Interactive MOLP Method for Solving Output-Oriented DEA Problems with Undesirable Factors](#),' *Journal of Industrial and Management Optimization*, Vol. 11, No. 4, pp. 1089-1110.
 233. Khalili-Damghani, K., Tavana, M. and Najmodin, M. (2015) '[Reverse Logistics and Supply Chains: A Structural Equation Modeling Investigation](#),' *International Journal of Industrial Engineering: Theory, Applications and Practice*, Vol. 22, No. 3, pp. 354-368.
 234. Hatami-Marbini, A., Rostamy-Malkhalifeh, M., Agrell, P.J., Tavana, M. and Mohammadi, F. (2015) '[Extended Symmetric and Asymmetric Weight Assignment Methods in Data Envelopment Analysis](#),' *Computers and Industrial Engineering*, Vol. 87, pp. 621-631.
 235. Di Caprio, D., Santos Arteaga, F.J. and Tavana, M. (2015) '[Choice Manipulation through Comparability in Markets with Verifiable Multi-Attribute Products](#),' *International Journal of Information Technology and Decision Making*, Vol. 14, No. 2, pp. 339-374.
 236. Najafi, S., Saati, S. and Tavana, M. (2015) '[Data Envelopment Analysis in Service Quality Evaluation: An Empirical Study](#),' *Journal of Industrial Engineering International*, Vol. 11, No. 3, pp. 319-330.
 237. Tavana, M., Kazemi, S. and Kiani Mavi, R. (2015) '[A Stochastic Data Envelopment Analysis Model Using a Common Set of Weights and the Ideal Point Concept](#),' *International Journal of Applied Management Science*, Vol. 7, No. 2, pp. 81-92.
 238. Paryab, K., Tavana, M. and Khanjani Shiraz, R. (2015). '[Convex and Non-Convex Approaches for Cost Efficiency Models with Fuzzy Data](#),' *International Journal of Data Mining, Modelling and Management*, Vol. 7, No. 3, pp. 213-238.
 239. Charles, V., Tavana, M. and Gherman, T. (2015) '[The Right To Be Forgotten - Is Privacy Sold Out in the Big Data Age?](#)' *International Journal of Society Systems Science*, Vol. 7, No. 4, pp. 283-298.
 240. Saati, S., Tavana, M., Hatami-Marbini, A. and Hajiakhondi, E. (2015) '[A Fuzzy Linear Programming Model with Fuzzy Parameters and Decision Variables](#),' *International Journal of Information and Decision Sciences*, Vol. 7, No. 4, pp. 312-333.
 241. Bagloee, S.A., Shnaiderman, M., Tavana, M. and Ceder, A. (2015) '[A Logit-Based Model for Facility Placement Planning in Supply Chain Management](#),' *International Journal of Logistics Systems and Management*, Vol. 20, No. 1, pp. 122-147.
- 2014
242. Tavana, M., Fazlollahtabar, H. and Hassanzade, R. (2014) '[A Bi-Objective Stochastic Programming Model for Optimising Automated Material Handling Systems with Reliability Considerations](#),' *International Journal of Production Research*, Vol. 52, No. 19, pp. 5597-5610.
 243. Tavana, M., Khanjani Shiraz, R. and Hatami-Marbini, A. (2014) '[A New Chance-Constrained DEA Model with Birandom Input and Output Data](#),' *Journal of the Operational Research Society*, Vol. 65, No. 12, pp. 1824-1839.
 244. Tavana, M., Abtahi, A.R. and Khalili-Damghani, K. (2014) '[A New Multi-Objective Multi-Mode Model for Solving Preemptive Time-Cost-Quality Trade-off Project Scheduling Problems](#),' *Expert Systems with Applications*, Vol. 41, No. 4, pp. 1830-1846.

245. Tavana, M., Di Caprio, D. and Santos-Arteaga, F.J. (2014) '[An Optimal Information Acquisition Model for Competitive Advantage in Complex Multiperspective Environments](#),' *Applied Mathematics and Computation*, Vol. 240, pp. 175-199.
 246. Tavana, M. and Khalili-Damghani, K. (2014) '[A New Two-Stage Stackelberg Fuzzy Data Envelopment Analysis Model](#),' *Measurement*, Vol. 53, pp. 277-296.
 247. Khalili-Damghani, K. and Tavana, M. (2014) '[A Comprehensive Framework for Sustainable Project Portfolio Selection Based on Structural Equation Modeling](#),' *Project Management Journal*, Vol. 45, No. 2, pp. 308-319.
 248. Ebrahimnejad, A. and Tavana, M. (2014) '[A Novel Method for Solving Linear Programming Problems with Symmetric Trapezoidal Fuzzy Numbers](#),' *Applied Mathematical Modelling*, Vol. 38, No. 17-18, pp. 4388-4395.
 249. Di Caprio, D., Santos-Arteaga, F.J. and Tavana, M. (2014) '[Information Acquisition Processes and their Continuity: Transforming Uncertainty into Risk](#),' *Information Sciences*, Vol. 274, pp. 108-124.
 250. Kandjani, H., Tavana, M., Bernus, P. and Nielsen, S. (2014) '[Co-evolution Path Model \(CePM\): Sustaining Enterprises as Complex Systems on the Edge of Chaos](#),' *Cybernetics and Systems*, Vol. 45, No. 7, pp. 547-567.
 251. Ebrahimnejad, A. and Tavana, M. (2014) '[An Interactive MOLP Method for Identifying Target Units in Output-Oriented DEA Models: The NATO Enlargement Problem](#),' *Measurement*, Vol. 52, pp. 124-134.
 252. Khalili-Damghani, K., Tavana, M. and Amirkhan, M. (2014) '[A Fuzzy Bi-Objective Mixed-Integer Programming Method for Solving Supply Chain Network Design Problems under Ambiguous and Vague Conditions](#),' *International Journal of Advanced Manufacturing Technology*, Vol. 73, No. 9-12, pp. 1567-1595.
 253. Tavana, M., Trevisani, D.A. and Dussault, J.L. (2014) '[The Fuzzy Stability Model: An Interactive Framework for Measuring Robustness and Resiliency under Uncertainty](#),' *International Journal of Data Analysis Techniques and Strategies*, Vol. 6, No. 2, pp. 137-161.
 254. O'Connor, A., Santos-Arteaga, F.J. and Tavana, M. (2014) '[A Game-Theoretical Model of Bank Foreign Direct Investment Strategy in Emerging Market Economies](#),' *International Journal of Bank Marketing*, Vol. 32, No. 3, pp. 194-222.
 255. Mahdiloo, M., Tavana, M., Farzipoor Saen, R. and Noorizadeh, A. (2014) '[A Game Theoretic Approach to Modeling Undesirable Outputs and Efficiency Decomposition in Data Envelopment Analysis](#),' *Applied Mathematics and Computation*, Vol. 244, pp. 479-492.
 256. Di Caprio, D., Santos-Arteaga, F.J. and Tavana, M. (2014) '[The Optimal Sequential Information Acquisition Structure: A Rational Utility-Maximizing Perspective](#),' *Applied Mathematical Modelling*, Vol. 38, No. 14, pp. 3419-3435.
 257. Ebrahimnejad, A., Tavana, M., Hosseinzadeh Lotfi, F., Shahverdi, R. and Yousefpour, M. (2014) '[A Three-Stage Data Envelopment Analysis Model with Application to Banking Industry](#),' *Measurement*, Vol. 49, pp. 308-319.
 258. Santos-Arteaga, F.J., Di Caprio, D. and Tavana, M. (2014) '[A Self-Regulating Information Acquisition Algorithm for Preventing Choice Regret in Multi-Perspective Decision Making](#),' *Business and Information Systems Engineering*, Vol. 6, No. 3, pp. 165-175.
- German translation published in *Wirtschaftsinformatik*:
- Santos-Arteaga, F.J., Di Caprio, D. and Tavana, M. (2014) '[Ein selbstregelnder Informationsbeschaffungsalgorithmus zur Vermeidung von Auswahlbedauern bei multiperspektivischen Entscheidungsfindungen](#),' *Wirtschaftsinformatik*, Vol. 56, No. 3, pp. 185-196.
259. Hajipour, V., Khodakarami, V. and Tavana, M. (2014) '[The Redundancy Queuing-Location-Allocation Problem: A Novel Approach](#),' *IEEE Transactions on Engineering Management*, Vol. 61, No. 3, pp. 534-544.
 260. Tavana, M., Trevisani, D.A. and Clark, T.A. (2014) '[A Deterministic Risk Analysis and Measurement Model for Assessing](#)

[Availability and Integrity in Command and Control Systems](#),' *International Journal of Data Analysis Techniques and Strategies*, Vol. 6, No. 4, pp. 327-347.

261. Khalili-Damghani, K., Abtahi, A.R. and Tavana, M. (2014) '[A Decision Support System for Solving Multi-Objective Redundancy Allocation Problems](#),' *Quality and Reliability Engineering International*, Vol. 30, No. 8, pp. 1249-1262.
262. Momeni, E., Tavana, M., Mirzagoltabar, H. and Mirhedayatian, S.M. (2014) '[A New Fuzzy Network Slacks-Based DEA Model for Evaluating Performance of Supply Chains with Reverse Logistics](#),' *Journal of Intelligent and Fuzzy Systems*, Vol. 27, No. 2, pp. 793-804.
263. Bagloee, S.A., Ceder, A., Tavana, M. and Bozic, C. (2014) '[A Heuristic Methodology to Tackle the Braess Paradox Detecting Problem Tailored for Real Road Networks](#),' *Transportmetrica A: Transport Science*, Vol. 10, No. 5, pp. 437-456.
264. Tavana, M., Trevisani, D.A. and Kennedy, D.T. (2014) '[A Fuzzy Cyber-Risk Analysis Model for Assessing Attacks on the Availability and Integrity of the Military Command and Control Systems](#),' *International Journal of Business Analytics*, Vol. 1, No. 3, pp. 21-36.
265. Khanjani Shiraz, R., Tavana, M. and Paryab, K. (2014) '[Fuzzy Free Disposal Hull Models under Possibility and Credibility Measures](#),' *International Journal of Data Analysis Techniques and Strategies*, Vol. 6, No. 3, pp. 286-306.

2013

266. Tavana, M., Khalili-Damghani, K. and Abtahi, A.R. (2013) '[A Hybrid Fuzzy Group Decision Support Framework for Advanced-Technology Prioritization at NASA](#),' *Expert Systems with Applications*, Vol. 40, No. 2, pp. 480-491.
267. Tavana, M., Khanjani Shiraz, R., Hatami-Marbini, A., Agrell, P.J. and Paryab, K. (2013) '[Chance-Constrained DEA Models with Random Fuzzy Inputs and Outputs](#),' *Knowledge-Based Systems*, Vol. 52, pp. 32-52.
268. Tavana, M., Khalili-Damghani, K. and Sadi-Nezhad, S. (2013) '[A Fuzzy Group Data Envelopment Analysis Model for High-Technology Project Selection: A Case Study at NASA](#),' *Computers and Industrial Engineering*, Vol. 66, No. 1, pp. 10-23.
269. Tavana, M., Zandi, F. and Katehakis, M.N. (2013) '[A Hybrid Fuzzy Group ANP-TOPSIS Framework for Assessment of E-government Readiness from a CiRM Perspective](#),' *Information and Management*, Vol. 50, No. 7, pp. 383-397.
270. Tavana, M., Khalili-Damghani, K. and Abtahi, A.R. (2013) '[A Fuzzy Multidimensional Multiple-Choice Knapsack Model for Project Portfolio Selection Using an Evolutionary Algorithm](#),' *Annals of Operations Research*, Vol. 206, No. 1, pp. 449-483.
271. Tavana, M., Behzadian, M., Pirdashti, M. and Pirdashti, H. (2013) '[A PROMETHEE-GDSS for Oil and Gas Pipeline Planning in the Caspian Sea Basin](#),' *Energy Economics*, Vol. 36, pp. 716–728.
272. Tavana, M., Momeni, E., Rezaeiniya, N., Mirhedayatian, S.M. and Rezaeiniya, H. (2013) '[A Novel Hybrid Social Media Platform Selection Model Using Fuzzy ANP and COPRAS-G](#),' *Expert Systems With Applications*, Vol. 40, No. 14, pp. 5694–5702.
273. Tavana, M., Mirzagoltabar, H., Mirhedayatian, S.M., Farzipoor Saen, R. and Azadi, M. (2013) '[A New Network Epsilon-Based DEA Model for Supply Chain Performance Evaluation](#),' *Computers and Industrial Engineering*, Vol. 66, No. 2, pp. 501–513.
274. Tavana, M., Azizi, F., Azizi, F. and Behzadian, M. (2013) '[A Fuzzy Inference System with Application to Player Selection and Team Formation in Multi-Player Sports](#),' *Sport Management Review*, Vol. 16, No. 1, pp. 97–110.
275. Tavana, M., Trevisani, D.A. and Dussault, J.L. (2013) '[The Stability Model: An Interactive Framework for Measuring Robustness and Resiliency in Military Command and Control Systems](#),' *International Journal of Information Technology Project Management*, Vol. 4, No. 2, pp. 18-34.
276. Tavana, M., Mousavi, N. and Golara, S. (2013) '[A Fuzzy-QFD Approach to Balanced Scorecard Using an Analytic Network Process](#),' *International Journal of Information and Decision Sciences*, Vol. 5, No. 4, pp. 331-363.

277. Khalili-Damghani, K., Sadi-Nezhad, S. and Tavana, M. (2013) '[Solving Multi-Period Project Selection Problems with Fuzzy Goal Programming Based on TOPSIS and a Fuzzy Preference Relation](#),' *Information Sciences*, Vol. 252, pp. 42–61.
 278. Hatami-Marbini, A., Tavana, M., Saati, S. and Agrell, P.J. (2013) '[Positive and Normative Use of Fuzzy DEA-BCC Models: A Critical View on NATO Enlargement](#),' *International Transactions in Operational Research*, Vol. 20, No. 3, pp. 411–433.
 279. Khalili-Damghani, K. and Tavana, M. (2013) '[A New Fuzzy Network Data Envelopment Analysis Model for Measuring the Performance of Agility in Supply Chains](#),' *International Journal of Advanced Manufacturing Technology*, Vol. 69, No. 1-4, pp. 291–318.
 280. Khalili-Damghani, K., Nojavan, M. and Tavana, M. (2013) '[Solving Fuzzy Multidimensional Multiple-choice Knapsack Problems: The Multi-Start Partial Bound Enumeration Method versus the Efficient Epsilon-Constraint Method](#),' *Applied Soft Computing*, Vol. 13, No. 4, pp. 1627–1638.
 281. Hatami-Marbini, A., Tavana, M., Moradi, M. and Kangi, F. (2013) '[A Fuzzy Group Electre Method for Safety and Health Assessment in Hazardous Waste Recycling Facilities](#),' *Safety Science*, Vol. 51, No. 1, pp. 414–426.
 282. Khalili-Damghani, K., Sadi-Nezhad, S., Hosseinzadeh Lotfi, F. and Tavana, M. (2013) '[A Hybrid Fuzzy Rule-Based Multi-objective Framework for Sustainable Project Portfolio Selection](#),' *Information Sciences*, Vol. 220, pp. 442–462.
 283. Hatami-Marbini, A., Tavana, M., Hajipour, V., Kangi, F. and Kazemi, A. (2013) '[An Extended Compromise Ratio Method for Fuzzy Group Multi-Attribute Decision Making with SWOT Analysis](#),' *Applied Soft Computing*, Vol. 13, No. 8, pp. 3459–3472.
 284. Khalili-Damghani, K., Abtahi, A.R. and Tavana, M. (2013) '[A New Multi-Objective Particle Swarm Optimization Method for Solving Reliability Redundancy Allocation Problems](#),' *Reliability Engineering and System Safety*, Vol. 111, pp. 58–75.
 285. Hatami-Marbini, A., Tavana, M., Saati, S. and Kangi, F. (2013) '[A Fuzzy Group Linear Programming Technique for Multidimensional Analysis of Preference](#),' *Journal of Intelligent and Fuzzy Systems*, Vol. 25, No. 3, pp. 723–735.
 286. Bagloee, S.A., Tavana, M., Ceder, A., Bozic, C. and Asadi, M. (2013) '[A Hybrid Meta-Heuristic Algorithm for Solving Real-Life Transportation Network Design Problems](#),' *International journal of Logistics Systems and Management*, Vol. 16, No. 1, pp. 41–66.
 287. Hatami-Marbini, A., Agrell, P.J., Tavana, M. and Emrouznejad, A. (2013) '[A Stepwise Fuzzy Linear Programming Model with Possibility and Necessity Relations](#),' *Journal of Intelligent and Fuzzy Systems*, Vol. 25, No. 1, pp. 81–93.
 288. Ghili, S., Nazarian, S., Tavana, M., Keyvanshokouhi, S. and Isaai, M.T. (2013) '[A Complex Systems Paradox of Organizational Learning and Knowledge Management](#),' *International Journal of Knowledge-Based Organizations*, Vol. 3, No. 3, pp. 53–72.
 289. Saati, S., Hatami-Marbini, A., Tavana, M. and Agrell, P.J. (2013) '[A Fuzzy Data Envelopment Analysis for Clustering Operating Units with Imprecise Data](#),' *International Journal of Uncertainty, Fuzziness and Knowledge-based Systems*, Vol. 21, No. 1, pp. 29–54.
- 2012
290. Tavana, M. and Zandi, F. (2012) '[Applying Fuzzy Bi-Dimensional Scenario-Based Model to the Assessment of Mars Mission Architecture Scenarios](#),' *Advances in Space Research*, Vol. 49, No. 4, pp. 629–647.
 291. Tavana, M., Khanjani Shiraz, R., Hatami-Marbini, A., Agrell, P.J. and Paryab, K. (2012) '[Fuzzy Stochastic Data Envelopment Analysis with Application to Base Realignment and Closure \(BRAC\)](#),' *Expert Systems with Applications*, Vol. 39, No. 15, pp. 12247–12259.
 292. Tavana, M., Pirdashti, M., Kennedy, D.T., Belaud, J.P. and Behzadian, M. (2012) '[A Hybrid Delphi-SWOT Paradigm for Oil and Gas Pipeline Strategic Planning in Caspian Sea Basin](#),' *Energy Policy*, Vol. 40, No. 1, pp. 345–360.

293. Tavana, M., Fazlollahtabar, H., and Hajmohammadi, H. (2012) '[Supplier Selection and Order Allocation with Process Performance Index in Supply Chain Management](#),' *International Journal of Information and Decision Sciences*, Vol. 4, No. 4, pp. 329–349.
294. Khalili-Damghani, K., Tavana, M. and Sadi-Nezhad, S. (2012) '[An Integrated Multi-Objective Framework for Solving Multi-Period Project Selection Problems](#),' *Applied Mathematics and Computation*, Vol. 219, No. 6, pp. 3122–3138.
295. Zandi, F. and Tavana, M. (2012) '[A Fuzzy Group Multi-Criteria Enterprise Architecture Framework Selection Model](#),' *Expert Systems with Applications*, Vol. 39, No. 1, pp. 1165–1173.
296. Ghapanchi, A.H., Tavana, M., Khakbaz, M.H. and Low, G. (2012) '[A Methodology for Selecting Portfolios of Projects with Interactions and Under Uncertainty](#),' *International Journal of Project Management*, Vol. 30, No. 7, pp. 791–803.
297. Zandi, F. and Tavana, M. (2012) '[A Fuzzy E-negotiation Support System for Inter-Firm Collaborative Product Development](#),' *International Journal of Computer Integrated Manufacturing*, Vol. 25, No. 8, pp. 671–688.
298. Zandi, F., Tavana, M. and O'Connor, A. (2012) '[A Strategic Cooperative Game-Theoretic Model for Market Segmentation with Application to Banking in Emerging Economies](#),' *Technological and Economic Development of Economy*, Vol. 18, No. 3, pp. 389–423.
299. Tavana, M., Sisti, A.F. and Trevisani, D.A. (2012) '[An Automated Workforce Clustering Method for Business Process Reengineering in Research and Development Organizations](#),' *International Journal of Information Technology Project Management*, Vol. 3, No. 4, pp. 1–20.
300. Tavana, M. and Yousefpoor, N. (2012) '[A Hybrid Strategic Development and Prioritization Model for Information and Communication Technology Enhancement](#),' *International Journal of Operations Research and Information Systems*, Vol. 3, No. 4, pp. 19–40.
301. Hatami-Marbini, A., Tavana, M. and Emrouznejad, A. (2012) '[Productivity Growth and Efficiency Measurements in Fuzzy Environments with an Application to Health Care](#),' *International Journal of Fuzzy System Applications*, Vol. 2, No. 2, pp. 1–35.
302. Bagloee, S.A. and Tavana, M. (2012) '[An Efficient Hybrid Heuristic Method for Prioritizing Large Transportation Projects with Interdependent Activities](#),' *International Journal of Logistics Systems and Management*, Vol. 11, No. 1, pp. 114–142.
303. Hatami-Marbini, A., Tavana, M., Emrouznejad, A. and Saati, S. (2012) '[Efficiency Measurement in Fuzzy Additive Data Envelopment Analysis](#),' *International Journal of Industrial and Systems Engineering*, Vol. 10, No. 1, pp. 1–20.
304. Emrouznejad, A., Rostamy-Malkhalifeh, M., Hatami-Marbini, A. and Tavana, M. (2012) '[General and Multiplicative Non-Parametric Corporate Performance Models with Interval Ratio Data](#),' *Applied Mathematical Modelling*, Vol. 36, No. 11, pp. 5506–5514.
305. Saati, S., Hatami-Marbini, A., Tavana, M. and Hajiakhondi, E. (2012) '[A Two-fold Linear Programming Model with Fuzzy Data](#),' *International Journal of Fuzzy System Applications*, Vol. 2, No. 3, pp. 1–12.
306. Mahdiloo, M., Farzipoor Saen, R. and Tavana, M. (2012) '[A Novel Data Envelopment Analysis Model for Solving Supplier Selection Problems with Undesirable Outputs and Lack of Inputs](#),' *International Journal of Logistics Systems and Management*, Vol. 11, No. 3, pp. 285–305.
307. Azadi, M., Farzipoor Saen, R. and Tavana, M. (2012) '[Supplier Selection Using Chance-Constrained Data Envelopment Analysis with Nondiscretionary Factors and Stochastic Data](#),' *International Journal of Industrial and Systems Engineering*, Vol. 10, No. 2, pp. 167–198.
308. Saati, S., Hatami-Marbini, A., Agrell, P.J. and Tavana, M. (2012) '[A Common Set of Weight Approach Using an Ideal Decision Making Unit in Data Envelopment Analysis](#),' *Journal of Industrial and Management Optimization*, Vol. 8, No. 3, pp. 623–637.

309. Tavana, M. and Hatami-Marbini, A. (2011) '[A Group AHP-TOPSIS Framework for Human Spaceflight Mission Planning at NASA](#),' *Expert Systems with Applications*, Vol. 38, No. 11, pp. 13588–13603.
310. Tavana, M., Karbassi Yazdi, A., Shiri, M. and Rappaport, J. (2011) '[An EFQM-REMBRANDT Excellence Model Based on the Theory of Displaced Ideal](#),' *Benchmarking: An International Journal*, Vol. 18, No. 5, pp. 644-667.
311. Tavana, M., Busch, T.E. and Davis, E.L. (2011) '[Fuzzy Multiple Criteria Workflow Robustness and Resiliency Modeling with Petri Nets](#),' *International Journal of Knowledge-Based Organizations*, Vol. 1, No. 4, pp. 72-90.
312. Hatami-Marbini, A. and Tavana, M. (2011) '[An Extension of the Electre I Method for Group Decision-Making under a Fuzzy Environment](#),' *Omega*, Vol. 39, No. 4, pp. 373-386.
313. Zandi, F. and Tavana, M. (2011) '[A Fuzzy Group Quality Function Deployment Model for e-CRM Framework Assessment in Agile Manufacturing](#),' *Computers and Industrial Engineering*, Vol. 61, No. 1, pp. 1-19.
314. Hatami-Marbini, A., Emrouznejad, A. and Tavana, M. (2011) '[A Taxonomy and Review of the Fuzzy Data Envelopment Analysis Literature: Two Decades in the Making](#),' *European Journal of Operational Research*, Vol. 214, No. 3, pp. 457–472.
315. Zandi, F., Tavana, M. and Martin, D. (2011) '[A Fuzzy Group Electre Method for Electronic Supply Chain Management Framework Selection](#),' *International Journal of Logistics Research and Applications*, Vol. 14, No. 1, pp. 35-60.
316. Tavana, M., Busch, T.E. and Davis, E.L. (2011) '[Modeling Operational Robustness and Resiliency with High-level Petri Nets](#),' *International Journal of Knowledge-Based Organizations*, Vol. 1, No. 2, pp. 17-38.
317. Zandi, F. and Tavana, M. (2011) '[A Fuzzy Multi-objective Balanced Scorecard Approach for Selecting the Best e-Business Process Management Practice \(e-BPM^{BP}\)](#),' *Business Process Management Journal*, Vol. 17, No. 1, pp. 147-178.
318. Jafari Songhori, M., Tavana, M., Azadeh, A. and Khakbaz, M.H. (2011) '[A Supplier Selection and Order Allocation Model with Multiple Transportation Alternatives](#),' *International Journal of Advanced Manufacturing Technology*, Vol. 52, No. 1-4, pp. 365–376.
319. Zandi, F. and Tavana, M. (2011) '[An Optimal Investment Scheduling Framework for Intelligent Transportation Systems Architecture](#),' *Journal of Intelligent Transportation Systems*, Vol. 15, No. 3, pp. 115–132.
320. Hatami-Marbini, A., Tavana, M. and Ebrahimi, A. (2011) '[A Fully Fuzzified Data Envelopment Analysis Model](#),' *International Journal of Information and Decision Sciences*, Vol. 3, No. 3, pp. 252-264.
321. Hatami-Marbini, A. and Tavana, M. (2011) '[An Extension of the Linear Programming Method with Fuzzy Parameters](#),' *International Journal of Mathematics in Operational Research*, Vol. 3, No. 1, pp. 44-55.
322. Zandi, F. and Tavana, M. (2011) '[A Fuzzy Goal Programming Model for Strategic Information Technology Investment Assessment](#),' *Benchmarking: An International Journal*, Vol. 18, No. 2, pp. 172-196.
323. Emrouznejad, A., Rostamy-Malkhalifeh, M., Hatami-Marbini, A., Tavana, M. and Aghayi, N. (2011) '[An Overall Profit Malmquist Productivity Index with Fuzzy and Interval Data](#),' *Mathematical and Computer Modelling*, Vol. 54, No. 11-12, pp. 2827-2838.
324. Saati, S., Hatami-Marbini, A. and Tavana, M. (2011) '[Data Envelopment Analysis: An Efficient Duo Linear Programming Approach](#),' *International Journal of Productivity and Quality Management*, Vol. 7, No. 1, pp. 90-103.
325. Hanafizadeh, P., Ghaemi, A. and Tavana, M. (2011) '[Local Perturbation Analysis of Linear Programming with Functional Relation among Parameters](#),' *International Journal of Operations Research and Information Systems*, Vol. 2, No. 1, pp. 42-65.
326. Zandi, F. and Tavana, M. (2011) '[A Strategic Benchmarking Process for Identifying the Best Practice Collaborative](#)

[Electronic Government Architecture](#),’ *International Journal of Information Systems in the Service Sector*, Vol. 3, No. 2, pp. 32-57.

327. Pirdashti, M., Tavana, M., Hassim, M.H., Behzadian, M. and Karimi, I.A. (2011) ‘[A Taxonomy and Review of the Multiple Criteria Decision Making Literature in Chemical Engineering](#),’ *International Journal of Multicriteria Decision Making*, Vol. 1, No. 4, pp. 407-467.
 328. Saati, S., Hatami-Marbini, A. and Tavana, M. (2011) ‘[A Data Envelopment Analysis Model with Discretionary and Non-discretionary Factors in Fuzzy Environments](#),’ *International Journal of Productivity and Quality Management*, Vol. 8, No. 1, pp. 45-63.
 329. Ghili, S., Shams, H. and Tavana, M. (2011) ‘[Innovation or Imitation: Some Economic Performance and Social Welfare Policy Perspectives](#),’ *International Journal of Information Systems and Social Change*, Vol. 2, No. 3, pp. 48-66.
 330. Hatami-Marbini, A., Saati, S. and Tavana, M. (2011) ‘[Data Envelopment Analysis with Fuzzy Parameters: An Interactive Approach](#),’ *International Journal of Operations Research and Information Systems*, Vol. 2, No. 3, pp. 39-53.
- 2010
331. Tavana, M., Sodenkamp, M. and Suhl, L. (2010) ‘[A Soft Multi-Criteria Decision Analysis Model with Application to the European Union Enlargement](#),’ *Annals of Operations Research*, Vol. 181, No. 1, pp. 393-421.
 332. Tavana, M. and Sodenkamp, M. (2010) ‘[A Fuzzy Multi-criteria Decision Analysis Model for Advanced Technology Assessment at Kennedy Space Center](#),’ *Journal of the Operational Research Society*, Vol. 61, No. 10, pp. 1459-1470.
 333. Tavana, M. and O’Connor, A. (2010) ‘[An Integrated Strategic Benchmarking Model for Assessing International Alliances with Application to NATO Membership Enlargement](#),’ *Benchmarking: An International Journal*, Vol. 17, No. 6, pp. 791-806.
 334. Tavana, M., Sodenkamp, M.A. and Pirdashti, M. (2010) ‘[A Fuzzy Opportunity and Threat Aggregation Approach in Multicriteria Decision Analysis](#),’ *Fuzzy Optimization and Decision Making*, Vol. 9, No. 4, pp. 455-492.
 335. Zandi, F. and Tavana, M. (2010) ‘[A Hybrid Fuzzy Real Option Analysis and Group Ordinal Approach for Knowledge Management Strategy Assessment](#),’ *Knowledge Management Research and Practice*, Vol. 8, No. 3, pp. 216–228.
 336. Tavana, M., Bourgeois, B.S. and Rappaport, J. (2010) ‘[An Efficient Multi-Vehicle Multi-Criteria Mission Planning and Control System for Autonomous Underwater Vehicles](#),’ *International Journal of Operational Research*, Vol. 9, No. 3, pp. 306-328.
 337. Shokouhi, A.H., Hatami-Marbini, A., Tavana, M. and Saati, S. (2010) ‘[A Robust Optimization Approach for Imprecise Data Envelopment Analysis](#),’ *Computers and Industrial Engineering*, Vol. 59, No. 3, pp. 387-397.
 338. Zandi, F. and Tavana, M. (2010) ‘[A Group Evidential Reasoning Approach for Enterprise Architecture Framework Selection](#),’ *International Journal of Information Technology and Management*, Vol. 9, No. 4, pp. 468-483.
 339. Hatami-Marbini, A., Saati, S. and Tavana, M. (2010) ‘[An Ideal-Seeking Fuzzy Data Envelopment Analysis Framework](#),’ *Applied Soft Computing*, Vol. 10, No. 4, 1062–1070.
 340. Zandi, F. and Tavana, M. (2010) ‘[A Multi-Attribute Group Decision Support System for Information Technology Project Selection](#),’ *International Journal of Business Information Systems*, Vol. 6, No. 2, pp. 179-199.
 341. Tavana, M. and Bourgeois, B.S. (2010) ‘[A Multiple Criteria Decision Support System for Autonomous Underwater Vehicle Mission Planning and Control](#),’ *International Journal of Operational Research*, Vol. 7, No. 2, pp. 216-239.
 342. Khakbaz, M.H., Ghapanchi, A.H. and Tavana, M. (2010) ‘[A Multicriteria Decision Model for Supplier Selection in Portfolios with Interactions](#),’ *International Journal of Services and Operations Management*, Vol. 7, No. 3, pp. 351-377.
 343. Zandi, F. and Tavana, M. (2010) ‘[An Optimisation Model for Traffic Distribution Forecasting in Packet-Switching Networks](#),’ *International Journal of Mathematics in Operational Research*, Vol. 2, No. 5, pp. 515-539.

2009

344. Tavana, M., Bourgeois, B.S. and Sodenkamp, M. (2009) '[Fuzzy Multiple Criteria Base Realignment and Closure \(BRAC\) Benchmarking System at the Department of Defense](#),' *Benchmarking: An International Journal*, Vol. 16, No. 2, pp. 192-221.
345. Tavana, M., Bailey, M.D. and Busch, T.E. (2009) '[Dynamic Air Tasking Evaluation in a Simulated Network-Centric Battlespace](#),' *International Journal of Operational Research*, Vol. 5, No. 1, pp. 1-25.
346. Tavana, M., Khakbaz, M.H. and Jafari-Songhori, M. (2009) '[Information Technology's Impact on Productivity in Conventional Power Plants](#),' *International Journal of Business Performance Management*, Vol. 11, No. 3, pp. 187-202.

2008

347. Tavana, M. (2008) '[Fahrenheit 59: An Environmental Decision Support System for Benchmarking Global Warming at Johnson Space Center](#),' *Benchmarking: An International Journal*, Vol. 15, No. 3, pp. 307-325.
348. Tavana, M. (2008) '[Knowledge-Based Expert System Development and Validation with Petri Nets](#),' *Journal of Information and Knowledge Management*, Vol. 7, No. 1, pp. 37-46.
349. Tavana, M., LoPinto, F., and Smither, J.W. (2008) '[Examination of the Similarity Between a New Sigmoid Function-Based Consensus Ranking Method and Four Commonly-Used Algorithms](#),' *International Journal of Operational Research*, Vol. 3, No. 4, pp. 384-398.
350. Tavana, M. (2008) '[Dynamic Process Modeling using Petri Nets with Applications to Nuclear Power Plant Emergency Management](#),' *International Journal of Simulation and Process Modeling*, Vol. 4, No. 2, pp. 130-138.
351. Tavana, M., Bailey, M.D. and Busch, T.E. (2008) '[A Multi-Criteria Vehicle-Target Allocation Assessment Model for Network-Centric Joint Air Operations](#),' *International Journal of Operational Research*, Vol. 3, No. 3, pp. 235-254.

2007

352. Tavana, M., Joglekar, P. and Redmond, M. (2007) '[An Automated Entity-Relationship Clustering Algorithm for Conceptual Database Design](#),' *Information Systems*, Vol. 32, No. 5, pp. 773-792.
353. Tavana, M., Smither, J.W. and Anderson, R.V. (2007) '[D-Side: A Facility and Workforce Planning Group Multi-criteria Decision Support System for Johnson Space Center](#),' *Computers and Operations Research*, Vol. 34, No. 6, pp. 1646-1673.
354. Tavana, M. (2007) '[A Threat-Response Multi-Criteria Funding Model for Homeland Security Grant Programs](#),' *International Transactions in Operational Research*, Vol. 14, No. 4, pp. 267-290.
355. Tavana, M., LoPinto, F. and Smither, J.W. (2007) '[A Hybrid Distance-Based Ideal-Seeking Consensus Ranking Model](#),' *Journal of Applied Mathematics and Decision Sciences*, Vol. 11, pp. 1-18.

2006

356. Tavana, M. (2006) '[A Priority Assessment Multi-criteria Decision Model for Human Spaceflight Mission Planning at NASA](#),' *Journal of the Operational Research Society*, Vol. 57, No. 10, pp. 1197-1215.
357. Tavana, M. and Kennedy, D. (2006) '[N-SITE: A Distributed Consensus Building and Negotiation Support System](#),' *International Journal of Information Technology and Decision Making*, Vol. 5, No. 1, pp. 123-154.
358. Joglekar, P., Tavana, M. and Rappaport, J. (2006) '[A Comprehensive Set of Models of Intra- and Inter-Organisational Coordination for Marketing and Inventory Decisions in a Supply Chain](#),' *International Journal of Integrated Supply Management*, Vol. 2, No. 3, pp. 251-284.
359. Bailey, M.D., Tavana, M. and Busch, T.E. (2006) '[Communication Role Allocation for Joint Air Operations in a Network-Centric Environment](#),' *International Journal of Computer Science and Network Security*, Vol. 6, No. 12, pp. 165-170.

2004

360. Tavana, M. (2004) '[Intelligent Flight Support System \(IFSS\): A Real-time Intelligent Decision Support System for Future Manned Spaceflight Operations at Mission Control Center](#),' *Advances in Engineering Software*, Vol. 35, No. 5, pp.

301-313.

361. Tavana, M. (2004) '[A Subjective Assessment of Alternative Mission Architectures for the Human Exploration of Mars at NASA Using Multicriteria Decision Making](#),' *Computers and Operations Research*, Vol. 31, No. 7, pp. 1147-1164.
362. Tavana, M. (2004) '[Quest 123: A Benchmarking System for Technology Assessment at NASA](#),' *Benchmarking: An International Journal*, Vol. 11, No. 4, pp. 370-384.
- 2003
363. Tavana, M. (2003) '[CROSS: A Multicriteria Group-Decision-Making Model for Evaluating and Prioritizing Advanced-Technology Projects at NASA](#),' *Interfaces*, Vol. 33, No. 3, pp. 40-56.
364. Tavana, M., Ortiz, J. and Torney, S. (2003) '[Modeling Station Duty Officer Operations Assistant at Johnson Space Center](#),' *Advances in Engineering Software*, Vol. 34, No. 3, pp. 139-162.
365. Tavana, M., Mohebbi, B. and Kennedy, D. (2003) '[Total Quality Index: A Benchmarking Tool for Total Quality Management](#),' *Benchmarking: An International Journal*, Vol. 10, No. 6, pp. 507-527.
366. Kennedy, D., Tavana, M., Leauby, B. and Ugras, J. (2003) '[An Investigation of the Relative Importance of the Characteristics of Information in Governmental Financial Reporting](#),' *Business Journal*, Vol. 19, No. 1-2, pp. 56-62.
- 2002
367. Tavana, M. (2002) '[Euclid: Strategic Alternative Assessment Matrix](#),' *Journal of Multi-Criteria Decision Analysis*, Vol. 11, No. 2, pp. 75-96.
- 2001
368. Joglekar, P., Chung, Q. and Tavana, M. (2001) '[Note on a Comparative Evaluation of Nine Well-Known Algorithms for Solving the Cell Formulation Problem in Group Technology](#),' *Journal of Applied Mathematics and Decision Sciences*, Vol. 5, No. 4, pp. 253-267.
- 1998
369. Tavana, M., Chung, Q. B. and Kennedy, D. (1998) '[Rho: A Decision Support System for Pricing in Law Firms](#),' *Information and Management*, Vol. 33, No. 3, pp. 155-165.
- 1997
370. Tavana, M. and Rappaport, J. (1997) '[Optimal Allocation of Arrivals to a Collection of Parallel Workstations](#),' *International Journal of Operations and Production Management*, Vol. 17, No. 3, pp. 305-325.
371. Tavana, M., Kennedy, D. and Mohebbi, B. (1997) '[An Applied Study Using the Analytic Hierarchy Process to Translate Common Verbal Phrases to Numerical Probabilities](#),' *Journal of Behavioral Decision Making*, Vol. 10, No. 2, pp. 133-150.
- 1996
372. Tavana, M., Kennedy, D. and Joglekar, P. (1996) '[A Group Decision Support Framework for Consensus Ranking of Technical Manager Candidates](#),' *Omega*, Vol. 24, No. 5, pp. 523-538.
- 1995
373. 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.
374. Tavana, M. and Banerjee, S. (1995) '[Evaluating Strategic Alternatives: An Analytical Model](#),' *Computers and Operations Research*, Vol. 22, No. 7, pp. 731-743.
375. Kennedy, D., Ugras, J., Leauby, B. and Tavana, M. (1995) '[An Investigation of the Relative Importance Attached to the Qualitative Characteristics in the SFAC 2 Hierarchy](#),' *Accounting Enquiries*, Vol. 4, No. 2, pp. 249-288.
- 1994
376. Tavana, M., Lee, P. and Joglekar, P. (1994) '[The Development and Validation of a Campus Recruiting Expert System Using Expert Opinion and Historical Data](#),' *Expert Systems with Applications*, Vol. 7, No. 2, pp. 305-321.
377. Tavana, M. and Banerjee, S. (1994) '[A Case Study in Multiple Criteria Decision Support System](#),' *Journal of*

International Information Management, Vol. 3, Special Edition, pp. 41-70.

378. Joglekar, P., Tavana, M. and Banerjee, S. (1994) '[A Clustering Algorithm for Identifying Information Subsystems](#),' *Journal of International Information Management*, Vol. 3, Special Edition, pp. 129-141.

1993

379. Tavana, M., Kennedy, D., Rappaport, J. and Ugras, J. (1993) '[An AHP-Delphi Group Decision Support System Applied to Conflict Resolutions in Hiring Decisions](#),' *Journal of Management Systems*, Vol. 5, No. 1, pp. 49-74.

1992

380. Tavana, M., Kennedy, D. and Mohebbi, C. (1992) '[A Comparison Between Full-Function and Limited-Function CASE Tools in Systems Analysis and Design](#),' *Interface*, Vol. 14, No. 3, pp. 41-47.

1990

381. Tavana, M. and Mohebbi, C. (1990) '[A Comparison of DSS/ES Teaching Strategies: Conceptual vs. Interactive Approaches](#),' *Interface*, Vol. 12, No. 3, pp. 20-23.

1984

382. Lusk, E. J., Neves, J. and Tavana, M. (1984) '[An Investigation of the AHP Judgment Rendering Process](#),' *Journal of Organizational Behavior and Statistics*, Vol. 1, No. 2-4, pp. 133-147.

PROCEDIA PUBLICATIONS

1. Di Caprio, D., Santos-Arteaga, F.J. and Tavana, M. (2016) '[Self-Organizing Social Networks by Preference Similarity and the Networking Capacity of their Users](#),' *Procedia Computer Science*, Vol. 83, pp. 496-503.

EDITORIALS

1. Tavana, M. (2025) '[The art and science of business analytics: A journey from data to action](#),' *Decision Analytics Journal*, Vol. 14, March 2025, 100554.
2. Tavana, M. and Dessouky, Y. (2025) '[Charting the Unknown: formulating problem statements in the age of artificial intelligence](#),' *Computers and Industrial Engineering*, Vol. 208, Article 111440.
3. Tavana, M., Schoenherr, T., Cheng, Y., Kumar, A. and Ngai, E.W.T. (2024) '[Digital operations research models for intelligent machines \(industry 4.0\) and man-machine \(industry 5.0\) systems](#),' *Annals of Operations Research*.
4. Tavana, M. (2023) '[Reinventing The Future Supply Chains With Disruptive Technologies](#),' *Supply Chain Analytics*.
5. 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.
6. Tavana, M. (2022) '[Space Mission: Where Failure Is Not An Option](#),' *Space Mission Planning and Operations*.
7. Tavana, M. (2021) '[Decision Analytics In The World Of Big Data And Colorful Choices](#),' *Decision Analytics Journal*.
8. Tavana, M. (2021) '[Transforming Healthcare One Byte At A Time In The World Of Big Data](#),' *Healthcare Analytics*.
9. Tavana, M. (2021) '[Ten Lessons About Writing Journal Papers Your Mother Never Taught You](#),' *PLOS*.
10. Antucheviciene, J., Tavana, M., Nilashi, M. and Bausys, R. (2017). '[Managing Information Uncertainty and Complexity in Decision-Making](#),' *Complexity*, Vol. 2017, pp. 1-3.
11. Tavana, M. (2014) '[Editorial](#),' *Decision Analytics*, Vol. 1, No. 1, pp. 1-2.
12. Tavana, M. (2008) '[The Art of Decision Sciences](#),' *International Journal of Applied Decision Sciences*, Vol. 1, No. 1, pp. 1-2.

BOOKS (EDITED)

1. Patnaik, S., Tavana, M. and Jain, V. (2025). '[New Paradigms in Big Data Technology and Business Analytics](#),' Switzerland: Springer International Publishing.
2. Patnaik, S. and Tavana, M. (2022) '[Advances in Intelligent, Interactive Systems and Applications](#),' *Procedia Computer Science*, Elsevier.

3. Wang, T.S., Patnaik, S., Ip, A.W.H. and Tavana, M. (2022). ['Advances in Decision Science and Management'](#), Switzerland: Springer International Publishing.
4. Saaty, T.L. and Tavana, M. (2021). ['The Encyclicon - Volume 4: A Dictionary of Complex Decisions Using the Analytic Network Process'](#), Pittsburgh, Pennsylvania: RWS Publications.
5. Tavana, M., Nedjah, N. and Alhajj, R. (2021). ['Emerging Trends in Intelligent and Interactive Systems and Applications'](#), Switzerland: Springer International Publishing.
6. Wang, T.S., Ip, A.W.H., Tavana, M. and Jain, V. (2020). ['Recent Trends in Decision Science and Management'](#), Singapore: Springer Nature Singapore.
7. Xhafa, F., Patnaik, S. and Tavana, M. (2020) ['Advances in Intelligent, Interactive Systems and Applications'](#), Switzerland: Springer International Publishing.
8. Patnaik, S., Ip, A.W.H., Tavana, M. and Jain, V. (2020) ['New Paradigm in Decision Science and Management'](#), Singapore: Springer Nature Singapore.
9. Xhafa, F., Patnaik, S. and Tavana, M. (2019) ['Advances in Intelligent, Interactive Systems and Applications'](#), Switzerland: Springer International Publishing.
10. Patnaik, S., Yang, X.S., Tavana, M., Popentiu-Vlădicescu, F. and Qiao, F. (2019) ['Digital Business: Business Algorithms, Cloud Computing and Data Engineering'](#), Switzerland: Springer International Publishing.
11. Tavana, M. and Patnaik, S. (2018) ['Recent Developments in Data Science and Business Analytics'](#), Switzerland: Springer International Publishing.
12. Tavana, M. (Editor) (2017) ['Enterprise Information Systems and the Digitalization of Business Functions'](#), Hershey, Pennsylvania: IGI Global.
13. Tavana, M., Szabat, K. and Puranam, S. (2017) ['Organizational Productivity and Performance Measurements Using Predictive Modeling and Analytics'](#), Hershey, Pennsylvania: IGI Global.
14. Tavana, M. and Puranam, S. (2015) ['Handbook of Research on Organizational Transformations through Big Data Analytics'](#), Hershey, Pennsylvania: IGI Global.
15. Tavana, M., Ghapanchi, A.H. and Talaei-Khoei, A. (2015) ['Healthcare Informatics and Analytics: Emerging Issues and Trends'](#), Hershey, Pennsylvania: IGI Global.
16. Tavana, M. (Editor) (2014) ['Analytical Approaches to Strategic Decision-Making: Interdisciplinary Considerations'](#), Hershey, Pennsylvania: IGI Global.
17. Emrouznejad, A. and Tavana, M. (2014) ['Performance Measurement with Fuzzy Data Envelopment Analysis'](#), Studies in Fuzziness and Soft Computing, Berlin: Springer-Verlag.
18. Tavana, M. (Editor) (2014) ['Developing Business Strategies and Identifying Risk Factors in Modern Organizations'](#), Hershey, Pennsylvania: IGI Global.
19. Tavana, M. (Editor) (2013) ['Management Theories and Strategic Practices for Decision Making'](#), Hershey, Pennsylvania: IGI Global.
20. Tavana, M. (Editor) (2013) ['Competition, Strategy, and Modern Enterprise Information Systems'](#), Hershey, Pennsylvania: IGI Global.
21. Tavana, M. (Editor) (2012) ['Decision Making Theories and Practices from Analysis to Strategy'](#), Hershey, Pennsylvania: IGI Global.
22. Tavana, M. (Editor) (2012) ['Enterprise Information Systems and Advancing Business Solutions: Emerging Models'](#),

Hershey, Pennsylvania: IGI Global.

23. Tavana, M. (Editor) (2011) '[Managing Adaptability, Intervention, and People in Enterprise Information Systems](#),' Hershey, Pennsylvania: IGI Global.

BOOK CHAPTERS

1. Marín, R., Santos-Arteaga, F.J., Tavana, M. and Di Caprio, D. (2024), '[Productivity Improvements Triggered by Robotization and Internationalization Processes: The Spanish Experience](#),' In M.T. Del Val Núñez, A.Y. Aránega, D. Ribeiro-Soriano (Editors), *Impact in HR Management, Innovation and Technology Challenges*, published in Artificial Intelligence and Business Transformation, pp. 117-128, Switzerland: Springer Nature.
2. Emrouznejad, A., Tavana, M. and Hatami-Marbini, A. (2014) '[The State of the Art in Fuzzy Data Envelopment Analysis](#),' In A. Emrouznejad and M. Tavana (Editors), *Performance Measurement with Fuzzy Data Envelopment Analysis*, published in Studies in Fuzziness and Soft Computing (309), pp. 1-45, Berlin: Springer-Verlag.
3. Szabat, K. and Tavana, M. (2009) '[Futurescope 2020: Global Management Support Systems in the Knowledge Age](#),' In A. O'Connor (Editor), *Managing, Trade, Economics and International Business*, pp. 332-342, United Kingdom: Palgrave Macmillan Publications.

OTHER PUBLICATIONS

1. Tavana, M. (October 2007). '[Alpha Iota Delta launches the International Journal of Applied Decision Sciences \(IJADS\)](#),' *Decision Line*, Vol. 38, No. 5, p. 31.
2. Tavana, M. (October 2006) '[Why Alpha Iota Delta?](#)' *Decision Line*, Vol. 37, No. 5, pp. 21, 35.
3. Tavana, M. (March 2006) '[Information Technology Crunch: Alpha Iota Delta Can Help](#),' *Decision Line*, Vol. 37, No. 2, p. 30.
4. 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

- Keynote Speaker, [International Conference on Business Analytics in Practice \(ICBAP 2025\)](#), University of Piraeus, Greece (August 24-27, 2015).
- 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

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 CONTRACTS

- 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)
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NATIONAL SCIENCE FOUNDATION

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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

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