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Professor and Chair	Business Systems & Analytics Department La Salle University, Philadelphia, Pennsylvania 19141, United States
Honorary Professor	Business Information Systems Department University of Paderborn, D-33098 Paderborn, Germany
Editor-in-Chief	Decision Analytics International Journal of Applied Decision Sciences International Journal of Management and Decision Making International Journal of Knowledge Engineering and Data Mining International Journal of Strategic Decision Sciences International Journal of Enterprise Information Systems
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EMPLOYMENT

LA SALLE UNIVERSITY, Philadelphia, Pennsylvania, USA

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

Full Professor with Tenure (Tenured in 1990)

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

Distinguished Chair of Business Analytics (2014 to Present)

Lindback Distinguished Chair of Information Systems and Decision Sciences (2005 to 2014)

Professor, Business Systems and Analytics (2004 to Present)

Chairman, Management Department (1993-05)

Executive Director, E-commerce Institute (January 2003-05)

Associate Professor, Management Information Systems and Decision Sciences (1996-04)

Director, Center for Technology and Management (1987-93)

Assistant Professor, Management Information Systems and Decision Sciences (1986-96)

Instructor, Management Information Systems and Decision Sciences (1984-86)

Major Committees: Tenure and Promotion Appeals Committee (2005-08); Tenure and Promotion Appeals Committee (1999-02); Tenure and Promotion Committee (1994-98)

Course Evaluations: [Summary report](#)

UNIVERSITY OF PADERBORN, Paderborn, Germany

Faculty of Business Administration and Economics

[Business Information Systems Department](#), Decision Support and Operations Research Lab

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

Distinguished Guest Professor (May 2015-May 2016)

Guest Professor (May 2008-May 2015)

Course Evaluations: [Summary report](#)

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

Rutgers School of Business (2008 to Present)

Adjunct Professor

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

Management Department (Camden Campus)

Course Evaluations: [Summary report](#)

EDUCATION

UNIVERSITY OF PENNSYLVANIA, Philadelphia, Pennsylvania

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

Post-Doctoral Diploma (P.Ph.D.) (Habilitation)

Thesis Title: Euclid: Strategic Alternative Assessment Matrix

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 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: Systems Sciences

Advisors: Dr. Russell Ackoff and Dr. Edward J. Lusk

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

LA SALLE UNIVERSITY, Philadelphia, Pennsylvania

College of Professional and Continuing Studies (January 2009)

Certificate of Online Learning and Teaching

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, 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.

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

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

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

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**ECOLE SUPERIEURE DE COMMERCE ET MANAGEMENT, Poitiers, France**

School of Business and Management (2001 to Present)

Visiting Professor, Strategic Information Systems

May 2001, May 2002, March 2005, March 2006, March 2007, March 2008, March 2009, March 2010, March 2011, March 2012, October 2012, March 2013, October 2013, March 2014, October 2014, March 2015.

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., Ebrahimnejad, A., Santos-Arteaga, F.J., Mansourzadeh, S.M. and Kazemi Matin, R. (Accepted Manuscript in Press) 'A Hybrid DEA-MOLP Model for Public School Assessment and Closure Decision in the City of Philadelphia,' *Socio-Economic Planning Sciences*.
2. Tavana, M., Shabanpour, H., Yousefi, S. and Farzipoor Saen, R. (Accepted Manuscript in Press) 'A Hybrid Goal Programming and Dynamic Data Envelopment Analysis Framework for Sustainable Supplier Evaluation,' *Neural Computing and Applications*.
3. Tavana, M., Zareinejad, M. and Santos-Arteaga, F.J. (Accepted Manuscript in Press) 'An Intuitionistic Fuzzy-Grey Superiority and Inferiority Ranking Method for Third-Party Reverse Logistics Provider Selection,' *International Journal of Systems Science: Operations and Logistics*.
4. Tavana, M., Khalili-Damghani, K., Di Caprio, D. and Oveisi, Z. (Accepted Manuscript in Press) 'An Evolutionary Computation Approach for Solving Repairable Multi-State Multi-Objective Redundancy Allocation Problems,' *Neural Computing and Applications*.
5. Tavana, M., Santos-Arteaga, F.J., Mahmoodirad, A., Niroomand, S. and Sanei, M. (Accepted Manuscript in Press) 'Multi-Stage Supply Chain Network Solution Methods: Hybrid Metaheuristics and Performance Measurement,' *International Journal of Systems Science: Operations and Logistics*.
6. Tavana, M., Khanjani Shiraz, R. and Di Caprio, D. (Accepted Manuscript in Press) 'A Chance-Constrained Portfolio Selection Model with Random-Rough Variables,' *Neural Computing and Applications*.
7. Di Caprio, D., Santos-Arteaga, F.J. and Tavana, M. (Accepted Manuscript in Press) 'A Novel Decision Support Framework for Computing Expected Utilities from Linguistic Evaluations,' *International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems*.
8. Ebrahimi, B., Tavana, M., Rahmani, M. and Santos-Arteaga, F.J. (Accepted Manuscript in Press) 'Efficiency Measurement in Data Envelopment Analysis in the Presence of Ordinal and Interval Data,' *Neural Computing and Applications*.
9. Santos-Arteaga, F.J., Torrecillas, C. and Tavana, M. (Accepted Manuscript in Press) 'Dynamic Effects of Learning on the Innovative Outputs and Productivity in Spanish Multinational Enterprises,' *Journal of Technology Transfer*.
10. Alikar, N., Mousavi, S.M., Tavana, M. and Niaki, S.T.A. (Accepted Manuscript in Press) 'A Multi-Objective Multi-State Series-Parallel Redundancy Allocation Model Using Tuned Meta-Heuristic Algorithms,' *International Journal of Systems Science: Operations & Logistics*.
11. Khanjani Shiraz, R., Tavana, M. and Di Caprio, D. (Accepted Manuscript in Press) 'Chance-Constrained Data Envelopment Analysis Modeling with Random-Rough Data,' *RAIRO - Operations Research*.
12. Mousavi, S.M., Alikar, N., Tavana, M. and Di Caprio, D. (Accepted Manuscript in Press) 'An Improved Particle Swarm Optimization Model for Solving Homogeneous Discounted Series-Parallel Redundancy Allocation Problems,' *Journal of Intelligent Manufacturing*.

13. Mardani, A., Nilashi, M., Antucheviciene, J., Tavana, M., Bausys, R. and Ibrahim, O. (Accepted Manuscript in Press) 'Recent Fuzzy Generalisations of Rough Sets Theory: A Systematic Review and Methodological Critique of the Literature,' *Complexity*.
 14. Mousavi, S.M., Tavana, M., Alikar, N. and Zandieh, M. (Accepted Manuscript in Press) 'A Tuned Hybrid Intelligent Fruit Fly Optimization Algorithm for Fuzzy Rule Generation and Classification,' *Neural Computing and Applications*.
 15. Bagloee, S.A., Tavana, M., Di Caprio, D., Asadi, M. and Heshmati, M. (Accepted Manuscript in Press) 'A Multi-User Decision Support System for Online City Bus Tour Planning,' *Journal of Modern Transportation*.
- 2017
16. 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.
 17. 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.
 18. 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.
 19. 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.
 20. 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.
 21. 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.
 22. 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.
 23. 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.
 24. 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.
 25. 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.
 26. 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.
 27. 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.
 28. 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.
 29. 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.

30. 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.

2016

31. 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.
32. 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.
33. 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.
34. 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.
35. 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.
36. 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.
37. 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.
38. 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.
39. 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.
40. 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.
41. 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.
42. 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.
43. 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.
44. 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.
45. 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.
46. 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.

47. 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.
 48. 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.
 49. 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.
 50. 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.
 51. 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.
 52. 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.
 53. 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.
 54. 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.
 55. 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.
 56. 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**
57. 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.
 58. 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.
 59. 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.
 60. 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.
 61. 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.
 62. 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.
63. Esmaelian, 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.
 64. 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.
 65. 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.
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1984

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1. Tavana, M. (Editor) (2017) '[Enterprise Information Systems and the Digitalization of Business Functions](#),' Hershey, Pennsylvania: IGI Global.
2. Tavana, M., Szabat, K. and Puranam, S. (Editors) (2017) '[Organizational Productivity and Performance Measurements Using Predictive Modeling and Analytics](#),' Hershey, Pennsylvania: IGI Global.
3. Tavana, M. and Puranam, S. (Editors) (2015) '[Handbook of Research on Organizational Transformations through Big Data Analytics](#),' Hershey, Pennsylvania: IGI Global.
4. Tavana, M., Ghapanchi, A.H. and Talaei-Khoei, A. (Editors) (2015) '[Healthcare Informatics and Analytics: Emerging Issues and Trends](#),' Hershey, Pennsylvania: IGI Global.
5. Tavana, M. (Editor) (2014) '[Analytical Approaches to Strategic Decision-Making: Interdisciplinary Considerations](#),' Hershey, Pennsylvania: IGI Global.
6. Emrouznejad, A. and Tavana, M. (Editors) (2014) '[Performance Measurement with Fuzzy Data Envelopment Analysis](#),' Studies in Fuzziness and Soft Computing, Berlin: Springer-Verlag.
7. Tavana, M. (Editor) (2014) '[Developing Business Strategies and Identifying Risk Factors in Modern Organizations](#),' Hershey, Pennsylvania: IGI Global.
8. Tavana, M. (Editor) (2013) '[Management Theories and Strategic Practices for Decision Making](#),' Hershey, Pennsylvania: IGI Global.
9. Tavana, M. (Editor) (2013) '[Competition, Strategy, and Modern Enterprise Information Systems](#),' Hershey, Pennsylvania: IGI Global.
10. Tavana, M. (Editor) (2012) '[Decision Making Theories and Practices from Analysis to Strategy](#),' Hershey, Pennsylvania: IGI Global.
11. Tavana, M. (Editor) (2012) '[Enterprise Information Systems and Advancing Business Solutions: Emerging Models](#),' Hershey, Pennsylvania: IGI Global.
12. Tavana, M. (Editor) (2011) '[Managing Adaptability, Intervention, and People in Enterprise Information Systems](#),' Hershey, Pennsylvania: IGI Global.

BOOK CHAPTERS

1. 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.
2. 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.

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. (2014). '[Editorial](#),' *Decision Analytics*, Vol. 1, No. 1, pp. 1-2.
2. Tavana, M. (2008). '[The Art of Decision Sciences](#),' *International Journal of Applied Decision Sciences*, Vol. 1, No. 1, pp. 1-2.

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

- Editor-in-Chief, [Decision Analytics](#) (2012 to Present)
- Editor-in-Chief, [International Journal of Applied Decision Sciences](#) (2007 to Present)
- Editor-in-Chief, [International Journal of Management and Decision Making](#) (2012 to Present)
- Editor-in-Chief, [International Journal of Knowledge Engineering and Data Mining](#) (2015 to Present)
- Editor-in-Chief, [International Journal of Strategic Decision Sciences](#) (2008 to Present)
- Editor-in-Chief, [International Journal of Enterprise Information Systems](#) (2010 to Present)
- Editor-in-Chief, IGI Global: [Advances in Business Information Systems and Analytics Book Series](#) (2012 to Present)

ORGANIZATIONAL OFFICERSHIPS

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

INVENTIONS

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

SOFTWARE DEVELOPMENT

- [D-cide©](#): An Influence Diagramming-Based Decision Support System
- [D-code©](#): A Natural Language Programming-Based Decision Support System
- [B-wise©](#): A Rule-Based Expert System
- [N-gage©](#): Multi-criteria Decision Making
- Strategic Assessment System©: A Strategic Decision Support System
- Clust-ER©: An Entity-Relationship Clustering System

DOCTORAL DISSERTATION COMMITTEES

1. Nima Kazemi, *The Effect of Human Learning and Forgetting on Fuzzy EOQ Model with Backorders*, University of Malaya, Malaysia (2017).
2. Fatemeh Nikpay, *A Hybrid Post-Implementation Evaluation Method for Enterprise Architecture*, University of Malaya, Malaysia (2017).
3. S.V. Nagabhushan, *Design and Development of Multi-Attribute Auction based E-Procurement Model*, Visvesvaraya Technological University.
4. Ehsan Shekarian, *Forward and Backward Fuzzy Economic Order Quantity Models Considering Learning Theory*, University of Malaya, Malaysia (2017).
5. Morteza Yazdani, *A Comparative Applied Comparison of the Multi-Attribute Decision Making methods*, Universidad Europea, Spain (2016).
6. Sunil Tiwari, *Inventory Strategies for Deteriorating Items in Two Warehouse System*, University of Delhi, India (2016)
7. Alireza Fallahpour, *Development of Decision Making Model for Sustainable Supplier Selection in Manufacturing Industry*, University of Malaya, Malaysia (2016)
8. Anuj Kumar Sharma, *Inventory Decisions under Fuzzy Environment with Different Credit Terms*, University of Delhi, India (2016)
9. Sajan T. John, *Reverse Logistics Network Design: Mathematical Modelling and Analysis*, National Institute of Technology Calicut, India (2015)
10. S. Senthil, *Analysis of Decision Problems in Reverse Logistics Networks Using Hybrid Multi-Criteria Decision Making Methods*, National Institute of Technology Calicut, India (2014).
11. O.N. Arunkumar, *Analysis of the factors affecting working capital management of Indian manufacturing firms*, National Institute of Technology Calicut, India (2014).
12. Kunal Kanti Ghosh, *Offshore Outsourcing of Automotive Design Services in India*, Indian Institute of Technology Kharagpur, India (2014)
13. Hosein Khakbaz, *A Two-Phase Stochastic Programming Based Approach for Container Coordination Management in a Shipping Networks under Uncertainty*, University of Sydney, Australia (2014).
14. 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).
15. Surathkal Raghunandhan, *Strategic Management in Centrally Funded Technical Institutions in India*, National Institute of Technology Karnataka, India (2014).
16. Mariya Sodenkamp, *Models, Methods and Applications of Group Multiple-criteria Decision Analysis in Complex and Uncertain Systems*, University of Paderborn, Paderborn, Germany (2013).
17. Varaprasad Garapati, *A Study on Consumer Adoption of Self-Service Technologies in Banking*, National Institute of Technology Calicut, India (2013).
18. Prasant Rout, *A Strategic Analysis of Implementation and Usage Effectiveness of Enterprise Information Systems in Indian Organisations*, Indian Institute of Technology Kharagpur, India (2013)
19. Hamed Jafarzadeh, *What Forms the Decision of Business to Exploit Search Engine Advertising*, University of New South Wales, Sydney, Australia (2012).
20. Mandeep Mittal, *Inventory Management with Inspection and Trade Credit*, University of Dehli, Dehli, India (2012)
21. Le Cong Tru, *A Risk Management Framework for Aquaculture: The Case of Vietnamese Catfish Farming*, RMIT University, Melbourne, Australia (2011).
22. Amirhossein Ghapanchi, *Dynamic Capabilities and Project Characteristics Contributing to the Success of Open Source Software Projects*, University of New South Wales, Sydney, Australia (2011).
23. Aditi Khanna nee Aditi Goswami, *Investigating the Impact of Inflation on Inventory Policies*, University of Delhi, Delhi, India (2010).
24. Kevin K.H. Leung, *An Investigation of Artificial Immune Systems and Variable Selection Techniques for Credit Scoring*, RMIT University, Melbourne, Australia (2009).
25. Barbara J. Mohebbi, *Implementing a Total Quality Index within Health Care Organizations*. The Wharton School, University of Pennsylvania, Philadelphia, Pennsylvania (1998).

EXTERNAL REVIEWER

- Stuart School of Business - Illinois Institute of Technology (USA) (2015)
- Sultan Qaboos University - College of Economics and Political Science (Oman) (2013)
- Stevens Institute of Technology - Howe School of Technology Management (USA) (2012)
- Pennsylvania State University - Smeal College of Business (USA) (2012)

- Saint Joseph's University - Haub School of Business (USA) (2011, 2012)
- Yarmouk University - College of Information Technology and Computer Sciences (JORDAN) (2012)
- Carnegie Mellon University - Tepper School of Business (USA) (2010)

AWARDS

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

HONORS

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

GRANTS

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

GOVERNMENT RESEARCH GRANTS/SBIR CONTRACS

- United States Air Force - Air Force Research Lab - Principal Investigator (Fall 2013)
Fuzzy Risk Analysis Model for Assessing Availability and Integrity in Command and Control Systems
Contract Number: FA8750-13-2-0115
- United States Air Force - Air Force Research Lab - Principal Investigator (Fall 2012)
Fuzzy Robustness and Resiliency Assessment in Integrated Command and Control Systems
Contract Number: FA8750-11-2-0218
- United States Air Force - Air Force Research Lab - Principal Investigator (Fall 2010)
Fuzzy Workflow Management Modeling with Petri Nets
Contract Number: FA8750-09-2-0157
- United States Navy - Naval Research Lab - Stennis Space Center - Principal Investigator (2008-09)
Autonomous Underwater Vehicle Mission Planning and Control
Contract Number: N00173-08-P-6201 NRL
- NASA - Johnson Space Center - Principal Investigator (2003-04)
Intelligent Flight Support System (IFSS): A Real-Time Intelligent Decision Support Prototype
Small Business Innovation Research (SBIR) Contract Number: 03-1-F6.02-8365 JSC
- NASA - Johnson Space Center - Principal Investigator (1999-00)
Software Tool for Designing and Evaluating Petri Nets
Small Business Innovation Research (SBIR) Contract Number: 99-1-11.01-6241 JSC
- NASA - Johnson Space Center Director Grant (1999-2000)
Advanced Technology Assessment and Selection
Grant Number: NAG9-1196

SELECTED CONSULTING ACTIVITIES

- Johnson Space Center, Houston, Texas
- Naval Research Lab, Stennis Space Center, Mississippi
- Air Force Research Lab, Rome, New York
- ITT Defense Communication Systems, Clifton, New Jersey

- HPN Software Consultants, Houston, Texas
- S&K Electronics, Ronan, Montana
- Crown Cork and Seal, Philadelphia, Pennsylvania
- Prudential Securities, New York, New York
- Philadelphia Bar Association, Philadelphia, Pennsylvania
- Philadelphia Association for Clinical trials, Philadelphia, Pennsylvania
- Lomas and Nettleton Company, Philadelphia, Pennsylvania

ORGANIZATIONAL MEMBERSHIPS

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

NATIONAL SCIENCE FOUNDATION ACTIVITIES

National Science Foundation (June 2009)
Member of the Reviewer Board
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COURSES TAUGHT (EXECUTIVE, GRADUATE AND UNDERGRADUATE)

La Salle University:

- Information Technology for Decision Making (MBA-820)
- Operational, Tactical, and Strategic Information Systems (EMBA-920)
- Decision Support and Expert Systems (MIS-385 & MIS-785)
- Systems Analysis and Design (MIS-410 & MIS-710)
- Effective and Efficient Management of Operations (BUS-304 & MBA-625)
- Emerging Trends in Information Technology (MIS 405 & MIS-705)
- Information System capstone (MIS-480)
- Database Management Systems (MIS-420 & MIS-720)
- Enterprise Resource Planning (MIS-435)
- Management Information Systems (BUS-205)
- Systems Development and Implementation (MIS-411)

Rutgers University:

- Quantitative Skills (53:135:502)
- Computer and Information Systems (22-198-604)
- Information Technology and Project Management (52-623-302)

Drexel University:

- Human Computer Interaction/User Interface Design (L103)
- Introduction to Systems Analysis (L512)

Arcadia University:

- Management of Technology (BA-569)
- Operations Effectiveness (BA-667)

OTHER ACCOMPLISHMENTS

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

PERSONAL

U. S. Citizen, Married, Two Children.