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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, October 2015, March 2016, October 2016, March 2017.

**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., 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*.
2. 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*.
3. 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*.
4. 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*.
5. Tavana, M., Di Caprio, D. and Santos-Arteaga, F.J. (Accepted Manuscript in Press) 'Strategic Signaling and New Technologically Superior Product Introduction: A Game-Theoretic Model with Simulation,' *Technological and Economic Development of Economy*.
6. Banakar, Z., Tavana, M., Huff, B. and Di Caprio, D. (Accepted Manuscript in Press) 'A Bank Merger Predictive Model using the Smoluchowski Stochastic Coagulation Equation and Reverse Engineering,' *International Journal of Bank Marketing*.
7. 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*.
8. 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*.
9. Chi3n, S.J., Charles, V. and Tavana, M. (Accepted Manuscript in Press) 'Impact of Incentive Schemes and Personality-Tradeoffs on Two-Agent Cooperation with Numerical Estimations,' *Measurement*.
10. Toloo, M., Tavana, M. and Santos-Arteaga, F.J. (Accepted Manuscript in Press) '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*.
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. 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*.
14. Aghayi, N. and Tavana, M. (Accepted Manuscript in Press) 'A Novel Three-Stage Distance-Based Consensus Ranking Method,' *Journal of Industrial Engineering International*.

2018

15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.
21. 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.
22. 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.
23. Esmaelian, 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.
24. 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.

2017

25. 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.
26. 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.
27. 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.
28. 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.
29. 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.

30. 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.
31. 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.
32. Esmaelian, 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.
33. 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.
34. 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.
35. 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.
36. 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.
37. 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.
38. 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 & Logistics*, Vol. 4, No. 3, pp. 275-296.
39. 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.
40. 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.
41. 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.
42. 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.
43. 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.
44. 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.
45. 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.

46. 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
47. 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.
48. 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.
49. 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.
50. 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.
51. 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.
52. 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.
53. 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.
54. 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.
55. 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.
56. 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.
57. 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.
58. 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.
59. 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.
60. 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.
61. 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.
62. 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.

63. 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.
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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, [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 Communication Networks and Distributed Systems](#) (2018 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)
- Editor-in-Chief, [Decision Analytics](#) (2012 to 2018)

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

## DOCTORAL DISSERTATION COMMITTEES

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25. Le Cong Tru, *A Risk Management Framework for Aquaculture: The Case of Vietnamese Catfish Farming*, RMIT University, Melbourne, Australia (2011).
26. Amirhossein Ghapanchi, *Dynamic Capabilities and Project Characteristics Contributing to the Success of Open Source Software Projects*, University of New South Wales, Sydney, Australia (2011).
27. Aditi Khanna nee Aditi Goswami, *Investigating the Impact of Inflation on Inventory Policies*, University of Delhi, Delhi,

India (2010).

28. Kevin K.H. Leung, *An Investigation of Artificial Immune Systems and Variable Selection Techniques for Credit Scoring*, RMIT University, Melbourne, Australia (2009).
29. Barbara J. Mohebbi, *Implementing a Total Quality Index within Health Care Organizations*. The Wharton School, University of Pennsylvania, Philadelphia, Pennsylvania (1998).

## EXTERNAL REVIEWER

- University of Jyväskylä - Faculty of Information Technology (Finland) (2017)
- Universiti Sains Malaysia - School of Mathematical Sciences (Malaysia) (2017)
- Illinois Institute of Technology - Stuart School of Business (USA) (2015)
- Sultan Qaboos University - College of Economics and Political Science (Oman) (2013)
- Stevens Institute of Technology - Howe School of Technology Management (USA) (2012)
- Saint Joseph's University - Haub School of Business (USA) (2012)
- Pennsylvania State University - Smeal College of Business (USA) (2012)
- Yarmouk University - College of Information Technology and Computer Sciences (JORDAN) (2012)
- Saint Joseph's University - Haub School of Business (USA) (2011)
- 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

Information and Intelligent Systems: Dynamic Systems I – Open Loop

### 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.