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Associate Professor of Industrial Engineering
Tarbiat Modares University
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1- Personal Information:

Name: Nasim Nahavandi

Place of Birth: Tehran, Iran

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Jalale Ale Ahmad Highway, Nasr Bridge, P.O.Box 14115-143, Tehran, Iran.

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2- Education:

1998-2003: Tarbiat Modares University, Tehran, Iran.

Ph.D.in Industrial Engineering, Ph.D. Thesis: "Material Flow Management to Improve Throughput and Leadtime; A New Approach."

1993-1995: Polytechnic University, Tehran, Iran.

M.Sc.in Industrial Engineering, M.Sc. Thesis: "Design of Tarrif model for Loading, Unloading and Storage of Containers in Ports"

1989-1993: Sharif University of Technology, Tehran, Iran.

B.Sc. in Industrial Engineering, B.Sc. Project: "Feasibility Study of Rock Wool Plant"

3- Work Experiences:

Head of Performance Evaluation and Quality Assurance Office of Tarbiat Modares University, 2016 until now.

Head of Social and Economic Systems Dept., Industrial & Systems Engineering Faculty, Tarbiat Modares University, 2013 until now.

Associate Professor at Tarbiat Modares University, Faculty of Industrial & Systems Engineering, 2013 until now.

Assistant Professor at Tarbiat Modares University, Faculty of Engineering, Department of Industrial Engineering, 2004 until 2012.

Senior Expert in Research and Development Center, Ports and Shipping Organization, 1995-2003.

4- Referee for Journals:

International Journal of Production Research
Applied Soft Computing
Journal of E-Commerce in Organization
Knowledge Based System Journal
International Journal of Industrial Engineering and Production Research
Sharif Journal of Science and Technology
Amir Kabir Journal of Science and Technology
International Journal of Industrial Engineering and Production Management
Modares, Management Research in Iran
International Journal of Industrial Engineering

5- Research Interests:

Multiple Criteria Decision Making
Production Planning and control Systems
System Dynamics
Optimization and applications
Productivity and Performance Measurement
Simulation
Risk Management
Supply chain Management

6- Graduate Courses Taught (PH.D and M.Sc. courses)

Advanced production Planning
Advanced Engineering Economics
Simulation
Production Planning and Control Systems
Multiple Criteria Decision Making
Probability and Statistics
Operations Research II
System dynamics

7- Scientific Associations

Founding Staff of Iran system Dynamics Association
Member of Iran Institute of Industrial Engineering
Member of Iran System Dynamics Association

8- Papers and Publications in Journals

1) S. H. Zegordi, and N. Nahavandi, "Measuring Productivity Indexes and Efficiency in Container Terminal At Port Rajaei", Scientia Iranica, 9(3), 248-254, 2002.

2) N. Nahavandi and S. K. Chaharsooghi, "Calculating Performance Measures of Flow Line Based on Queuing Models; An Approximation Method", Modares Technical and Engineering Journal, 11, 1-10, 2002.

- 3) S. K. Chaharsooghi, and N. Nahavandi, "Buffer Allocation Problem; A Heuristic Approach", *Scientia Iranica*, 10(4), 401-409, 2003.
- 4) M. M. Sepehri, and N. Nahavandi, "Critical WIP Loops: A Mechanism for Material Flow Control in Flow lines", *International Journal of Production Research*, 45(12), 2759-2774, 2007.
- 5) A. Farzad, N. Nahavandi and A. Caruana, "The Effect of International Marketing on Organizational Commitment in Iranian Banks", *American Journal of Applied Sciences*, 5(11), 1480-1486, 2008.
- 6) N. Nahavandi and F. Haghghirad, "An Integrated Inventory Model for Two Products with Internal and External Demands", *World Applied Sciences Journal*, 5 (2), 258-266, 2008.
- 7) N. Nahavandi, M. H. Yousefian, A. Bayat, "Determining IT outsourcing strategy using AHP; A Case in Bank", *New Business and Economic*, 13, 89-110, 2008.
- 8) N. Nahavandi, "CWIPLII, A Mechanism For Improving Throughput and Lead time in Unbalanced Flow lines", *International Journal of Production Research*, 47 (11), 2921-2941, 2009.
- 9) N. Nahavandi and S. Dehbashi, "The Effect of Perceived risk, Perceived Usefulness, Trust and IT-Related Knowledge on Adoption of E-ticketing in Iran", *World Applied Sciences Journal*, 6 (1), 86-96, 2009.
- 10) N. Nahavandi, M. Abbasian, "Minimize maximum working time, work on the problem of dynamic flexible job shop with parallel machines", *Industrial Engineering and Management (Sharif)*, 26 (2), 47-58, 2010.
- 11) N. Nahavandi, A. Norouzi, "Contractor Analysis via fuzzy MADM techniques with independent and interdependent relationships", *Journal of transportation Research*, 8(3), 303-312, 2011.
- 12) N. Nahavandi, Abbasian, "Solving Multi-Objective Flexible Dynamic Job-Shop Scheduling Problem with Improved Genetic Algorithm", *International Journal of Industrial Engineering and production Management*, 21 (3), 1-11, 2011.
- 13) N. Nahavandi and F. Haghghi, "Integrated Versus nonintegrated inventory management", *African Journal of Business management*, 5 (9), 3436-3447, 2011.
- 14) N. Nahavandi, J. Parsaee and Montazeri, "Integrated Framework for Using TRIZ and TOC together: A case study", *International Journal of Business Innovation and Research*, 5 (4), 309-324, 2011.

- 15) N. Nahavandi, F. Haghghi and Farrokhi, "A Dual Model for Describing Reverse Logistics inventory systems", *International Journal of Modeling and Optimization*, 1 (2), 174-179, 2011.
- 16) N. Nahavandi, Abbasian, "Multi-Objective Flexible Dynamic Job-Shop Scheduling Problem Considering Maintenance Constraint", *International Journal of Industrial Engineering and production reserach*, 22 (1), 14-26, 2011.
- 17) H. Mashreghi, N. Nahavandi, M. R. Amin Naseri, "Prioritizing of production fields in machinery industries by TOPSIS and AHP for preparing Iran Accession to WTO", *International Journal of Industrial Engineering and production Management*, 22 (2), 127-143, 2011.
- 18) E. Nikbakhsh, N. Nahavandi, S. H. Zegordi, "A goal Programming approach", *International Journal of Industrial Engineering and production Management*, 22(3), 294-302, 2011.
- 19) N. Nahavandi, F. Haghghi rad, "Measuring supply chain Entropy using TSALLIS method", *Economics & Sociology*, 4(2), 26-31, 2011.
- 20) A. Abdi, E. Asadi, M. Saffarzadeh, F. Jolaei, N. Nahavandi, "Airside of Airport Capacity Enhancement Based On Flexible Flow Shop Multi-Objective Scheduling Model", *International Journal of Industrial Engineering*, 45 (2), 175-185, 2011.
- 21) H. Mashreghi, N. Nahavandi, M. R. Amin Naseri, "Prioritizing of Production Fields in Machinery Industries by Topsis and AHP Methods for Preparing Iran Accession Plan to World Trade Organization (WTO)", *International Journal of Industrial Engineering & Production Management*, 22(2), 128-143, 2011.
- 22) E. Nikbakhsh, N. Nahavandi, S.H. Zegordi, "Goal Programming Approach to the Bi-Objective Competitive Flow-Capturing Location-Allocation Problem", *International Journal of Industrial Engineering & Production Management*, 22(3), 293-302, 2011.
- 23) N. Nahavandi, F. Haghghi Rad, "Integrated versus non-integrated inventory management", *African Journal of Business Management*, 5(9), 3436-3447, 2011.
- 24) N. Nahavandi, K. Najafzafdeh, "Comparison of demand side control and supply side development of Electricity by system dynamics Approach", *International Journal of Industrial Engineering and production Management*, 22 (4), 342-358, 2012.
- 25) M. Hossein zadeh Kashan, N. Nahavandi, A. Hosseinzadeh Kashan, "DisABC: A new artificial bee Colony algorithm for binary optimization", *Applies Soft Computing*, 12, 342-352, 2012.

- 26) J. Parsaee, N. Nahavandi, ElMekkawy, "Buffer size Determination for DBR Controlled Supply chain Networks", *International Journal of Agile system and Management*, 5 (2), 151-163, 2012.
- 27) N. Nahavandi, H. Eslami, M. Abbasian, S. Pourdarab, "Design of an Intelligent System for evaluation of science park", *International Journal of Industrial Engineering and production Research*, 23(2), 73-83, 2012.
- 28) N. Nahavandi, F. Tanhaei, "Algorithm for solving product mix problrm in two constraint resource environment", *International Journal of Advanced manufacturing Technology*, 64(4), 1161-1167, 2013.
- 29) M. Nakhaei Nejad, N. Nahavandi, "An Interactive Algorithm for multi-objective flow shop scheduling using fuzzy processing time through resolution method and TOPSIS", *International Journal of Advanced manufacturing Technology*, 66(8), 1047-1067, 2013.
- 30) M. Hossein zadeh Kashan, A. Hosseinzadeh Kashan, , N. Nahavandi, "A Novel Differential Evolutionary Algorithm for binary optimization, Computational optimization and application, *Computational Optimization And Applications*, 55(2), 481-513, 2013.
- 31) B. Lak, N. Nahavandi, "Determining risks in traffic congestion RFID", *Industrial Engineering & Management (sharif)*, 28(2), 113-130, 2013.
- 32) A. Naimi Sadigh, H. Fallah, N. Nahavandi, "A multi-objective supply chain model integrated with location of distribution centers and supplier selection decisions", *International Journal of Advanced Manufacturing Technology*, 69(1), 225-235, 2013.
- 33) N. Nahavandi, Maddahi, E. Masehian, "Local Search simulated Annealing for solving multi objective dynamic facility layout problrm", *International Journal of Industrial Engineering and production Management*, 24(1), 14-21, 2013.
- 34) N. Nahavandi, "Comparison of SCONWIP DCONWIP TOC and CWIPLII in job shop", *Universal Journal of industrial and business management*, 2(3), 61-68, 2014.
- 35) N. Nahavandi, E. Asadi, M. R. Amin Naseri, "Influence of bottleneck position on performance criteria in flexible flow shop scheduling with unrelated parallel machines", *Industrial Engineering & Management (sharif)*, 30 (1), 13-24, 2014.
- 36) N. Nahavandi, T. Sabbaghi, "Solutions of security limitations for reduction of Privacy Vilation in RFID in Iran, E- Passport", *Industrial Engineering & Management (sharif)*, 30(1), 25-34, 2014.

- 37) N. Nahavandi, E. Asadi, "A new Lower Bound for Flexible Flow Shop Problem with unrelated parallel machines", *International Journal of Industrial Engineering and Production Research*, 25 (1), 65-70, 2014.
- 38) N. Nahavandi, S. H. Zegordi, M. Aghdasi, M. Nakhaeinejad, "A model for Order and Inventory Planning in Alloy Steel Industry", *Production and Operations Management*, 5(2), 37-56, 2014.
- 39) M. Pourhossein, N. Nahavandi, M. K. Sheikh-El-Eslami, "Transition in Iran's Electricity Market Considering the Policies on Elimination of Electricity Subsidies: System Dynamics Application", *International Journal of Industrial Engineering and Production Research*, 25(4), 263-270, 2014.
- 40) E. Asadi Gangraj, N. Nahavandi, "A Metaheuristic approach for batch sizing and scheduling problem in flexible flow shop with unrelated parallel machines", *International journal of computer applications*, 97(6), 31-36, 2014.
- 41) M. Nakhaeinejad, N. Nahavandi, "Production scheduling for hot rolling processes with time windows in the steel industry", *International Journal of Agile systems and management*, 7(2), 179-197, 2014.
- 42) E. Asadi Gangraj, N. Nahavandi, "Heuristic Approach for Scheduling and Order Acceptance in Flexible Flow Shop Environment", *International Journal of Industrial Engineering & Production Management*, 25(2), 205-216, 2014.
- 43) N. Nahavandi, S. Imeni, "Sequencing Mixed-Model assembly Line to Minimize Total Stoppage Times (Case Study: Saipa Corporation)", *International Journal of Industrial Engineering & Production Management*, 26(3), 371-386, 2015.
- 44) S. Tasouji Hassanpour, M. R. Amin-Naseri, N. Nahavandi, "Solving Re-entrant No-wait Flowshop Scheduling Problem", *International Journal of Engineering*, 28(6), 903-912, 2015.
- 45) N. Nahavandi, R. Hemmatjou, B. Moshiri, "The construction projects HSE performance evaluation considering the effect of external factors using choquet integral, case study (an Iranian power plant construction company)", *Journal Of Industrial And Systems Engineering*, 8(1), 21-41, 2015.
- 46) Z. Hosseinzade, M. J. Monem, N. Nahavandi, "Development of a multi attribute decision making model for selection of automatic measurement systems in irrigation networks", *Water & Irrigation Management*, 4(2), 177-190, 2015.

- 47) N. Nahavandi, M. Nakhaeinejad, "A Model For Steelmaking- Continuous Casting Multi Objective Scheduling In Steel Industries And A Heuristic Solution Methodology Based On Branch And Bound Method", *Sharif Industrial Engineering & Management*, 30(2), 53-66, 2015.
- 48) E. Asadi Gangraj, N. Nahavandi, "Developing a Lagrangian Relaxation Method for Flexible Flowshop Scheduling Problem", *Journal of Industrial Engineering Research in Production Systems*, 3(6), 121-131, 2016.
- 49) M. Zarei Mahmoodabadi, N. Nahavandi, A. Taghavi , "Designing Dynamic Balanced Scorecard with A Combined Approach of Balanced Scorecard (BSC) and System Dynamics Modeling (SDM)", *International Journal of Industrial Engineering & Production Management*, 27(2), 201-214, 2016.
- 50) R. Dabestani, N. Nahavandi, M. Saljoughian, "Predicting the progress trends of science and technology in Iran through a system dynamics approach", *Journal of Modelling in Management*, 11(1), 116-133, 2016.
- 51) N. Nahavandi, S.H. Zegordi, M. Abbasian, "Solving the Dynamic Job Shop Scheduling Problem using Bottleneck and Intelligent Agents based on Genetic Algorithm", *International Journal of Engineering, Transactions C: Aspects*, 29(3), 347-358, 2016.
- 52) R. Hemmatjou, N. Nahavandi, B. Moshiri, "Construction Project Performance Evaluation Model Based on Choquet Integral, Case Study (Power Plant Construction Company in Iran)", *International Journal of Industrial Engineering & Production Research*, 27(3), 193-207, 2016.
- 53) N. Nahavandi, M. Abbasian, "An Efficient Approach for Bottleneck Resource Detection Problem in Multi-objective Dynamic Job Shop Environment", *International Journal of Engineering*, 29(12), 1691-1703, Dec 2016.
- 54) M. Abbasi, N. Nahavandi, "A Multi-Objective Model of Empty Containers transportation planning (Case Study Iranian Ports)", *Journal of Transportation Research*, 14(1), 130-142, 2017.
- 55) I. Panahi, N. Nahavandi, "An Efficient Imperialist Competitive Algorithm for Resource Constrained Project Scheduling Problem", *International Journal of Industrial Engineering*, 51(2), 161-174, 2017.
- 56) M. shariatmadari, N. Nahavandi, H. Zegordi, M. Sobhieh, "Integrated Resource Management for Simultaneous Project Selection and Scheduling", *Computers & Industrial Engineering*, 109, 39-47, 2017.
- 57) M. Asad Amraji, N. Nahavandi, "Prioritization Risk Model of Avalanche in Mountains Road Using Vehicle Collision Possibility Factor", *Journal of Transportation Research*, 13(4), 180-192, 2017.

- 58) F. Tanhaei, N. Nahavandi, S. Ahmadi Motlagh, "Improving for Drum-Buffer-Rope Material Flow Management with Attention to Second Bottleneck and Free Goods in a Job Shop Environment", *Journal Of Quality Engineering & Production Optimization*, 2(1), 77-88, 2017.
- 59) Z. Hosseinzadeh, M. J. Monem, N. Nahavandi, M. Vaez Tehrani, "Development of a Conceptual Model for Application of Hydro-Mechanical Gates in Irrigation Networks by a System Dynamic Approach, *Irrigation & Drainage*, 66 (5), 808-819, 2017.
- 60) M. Abbasi, N. Nahavandi, "A New Model for container Transportation in the Network of Iran Seaports", *Journal of Maritime Transportation Industry*, 2(4), winter 2017.
- 61) M. Asad Amraji, N. Nahavandi, "Ranking pattern of safety in rural road using a combination of Accident Severity Index and safety audit", *Transportation Engineering*, 9 (1), 1-15, 2017.
- 62) E. Hassannayebi, N. Nahavandi, A. Sajedinejad, "A Simulation Model for Dynamically Adjusting the Number of Kanbans in generalized Kanban Systems, *Journal of Modelling in Engineering*, ۱۶(۲), ۶۶, 2018.
- 63) R. Mohebifard, M. Mehrabipour, N. Nahavandi, M. Sepehri, "Designing Multi-Objective Facility Location Model in green and Closed-Loop Supply Chain Network Under Uncertainty: Laundry and linen service centers of Moheb hospitals", *International Journal of Industrial Engineering & Production Research*, 28 (4), 507-524, Dec 2017.
- 64) A. Hasani goodarzi, N. Nahavandi, S. H. Zegordi, "A Multi-objective Imperialist Competitive Algorithm for Vehicle Routing Problem in Cross Docking Networks with Time Windows", *Journal of Industrial & Systems Engineering*, 11(1), 1-23, 2018.
- 65) R. Azizi Usefvand, N. Nahavandi, GH. Farzandi, "The Role of Supply Chain Risk Management on the Efficiency of the Pharmaceutical Distribution Companies, *International Journal of Industrial Engineering & Production Research*, 28 (1), 120-137, 2017.
- 66) N. Nahavandi, M. Abbasi, "Repositioning of Empty Containers Under Uncertainty with Combined Approach of Robust Optimization and Risk Management, *Journal of Transportation Research*, 119-134, 2017.
- 67) M. Sharifinia, N. Nahavandi, "Designing a model for performance Evaluation and Ranking Insurance Companies by BSC-DEA, *Sharif Industrial Engineering & Management*, 33.1(2.2), 27-37, 2018.

68) R. Sadeghirad, N. Nahavandi, A. Hosseinzade Kashan, S. H. Zegordi, "An Integrated closed Loop Supply Chain Configuration Model and Supplier Selection Based on Offered Discount Policies", *International Journal of Engineering*, 31 (3), 440-449, 2018.

69) R. Sadeghirad, N. Nahavandi, A novel multi-objective optimization model for integrated problem of green closed loop supply chain network design and quantity discount, "Journal of Cleaner Production", 196, 1549-1565, 2018.

70) S. Ebrahimi fard, N. Nahavandi, A. Hosseinzadeh Kashan, "Non-dominated Sorting Genetic Algorithm-II to Solve Multi Objective Resource-constrained Project Scheduling Problem with Time-cost Trade-off ", *Journal of Industrial Engineering*, 51(4), 375-387, 2018.

71) N. Rasouli, F. Marandi, N. Nahavandi, "An Integrated approach based on MADM and MODM for supplier selection and assembler selection in supply chain management", *Modern Research in Decision Making*, 3 (1), 159-185, 2018.

72) N. Nahavandi, F. Tanhaie, "Solving Product Mix Problem in Multiple Constraints Environment Using Goal Programming", *Journal of Industrial Engineering and Management Studies*, 4 (1), 1-12, 2017.

73) S. N. Hashemi, N. Nahavandi, "The evaluation of transportation service quality of metro lines in Tehran by a hybrid approach based on SERVQUAL and fuzzy TOPSIS", *Journal of Transportation Research*, Accepted.

74) N. Nahavandi, M. Rajeeian, "Quantitative Risk Allocation of BOT Projects in Road Construction", *Journal of Transportation Research*, Accepted.

75) Z. Kaheh, N. Nahavandi, R. B. Kazemzade, "Development of Multi-choice Goal Programming By Applying the Interval Valued Intuitionistic Fuzzy principle Component Analysis to Select The Goal in Large Group Decision Making", *Sharif Industrial Engineering & Management*, Accepted.

9- Papers in Conferences

1) N. Nahavandi, " Comparing JIT, Job shop and GT& JIT by Simulation", The 2nd Industrial Engineering Conference, Amir Kabir Technical University, 1994.

2) N. Nahavandi, "Design A Tarriff Model for Loading and Unloading in Ports, The 3rd Industrial Engineering Conference, Science and Technology University, 1995.

- 3) N. Nahavandi, "Design A Tarriff Model for Load, Unload and Container Storage in Ports, The 3rd Marine Techniquel Conferences, Tarbiat Modares University, 1996.
- 4) S. H. Zegordi, and N. Nahavandi, "Measuring Productivity Indexes and Efficiency in Ports and Shipping Organization", The 6th Industrial Engineering Conference, Sharif Technical University, 1998.
- 5) S. K. Chaharsooghi, and N. Nahavandi, "Determining Performance Measures in Flow Lines" The 2nd National Industrial Engineering Conference, Yazd University, Feb 2003.
- 6) S. K. Chaharsooghi, and N. Nahavandi, "An Approximation Method for determining Throughput and Leadtime in Flow lines", EURO/INFORMS Conference, Istanbul, Turkey, 2003.
- 7) N. Nahavandi and S. Dehbashi, "Factors Affecting on Iranian Passengers Acceptance towards electronic ticketing provided by airlines", IAIDS International Conference Society, Lisbon, Portugal, 2007.
- 8) N. Nahavandi and J. Parsaee, "Using Thinking Process of TOC for Elevating the causes of unsuccessful Strategic planning", 5th Industrial Engineering Conference, Iran, Terhran, 2007.
- 9) N. Nahavandi and J. Parsaee, "Applying Thinking Process of TOC in Determining Strategic Constraint", Second International Strategic Management Conference, Tehran, Iran, 2007.
- 10) N. Nahavandi and J. Parsaee, "A New Approach for Problem Solving by Thinking Process in Six Sigma", Second International Six Sigma Conference, Tehran, Iran, 2007.
- 11) N. Nahavandi and S. Dehbashi, "The Effect of Trust, Perceived Usefulness and Perceived Risk on E-ticketing in Iran", The 4th Conference on Information and Communication Technology Management, Tehran, 2007.
- 12) A. Farzad, N. Nahavandi and A. Caruana, "The Effect of International Marketing on Organizational Commitment improvement in Iranian Banks, International Management Conference, Tehran, Iran, 2007.
- 13) N. Nahavandi and T. Khoshoie, "Factors Affecting stickiness in Virtual Community", IAIDS International Conference Society, Algarve, Portugal, 2008.
- 14) N. Nahavandi and T. Khoshoie, "Factors Affecting Online Shopping", IAIDS International Conference Society, Algarve, Portugal, 2008.

- 15) N. Nahavandi and J. Parsaee, "Improved Supply chain Collaboration Performance Based on Theory of Constraints", First International Symposium on Supply Chain Management, Sharjah, UAE, 2008.
- 16) M. H. Sobhieh, N. Nahavandi, O. Weisi and M. Azizi, "An Analytical Hierarchy process for Organizational Improvement in Organizational Project Management Maturity Model (OPM3)", 4th International Project management Conference, 2008.
- 17) N. Nahavandi, O. Weisi and D. A. Ardakani, "An Integrated Decision Model for Strategic Decision making", The 6th Industrial Engineering , Imam Hossein University, 2008.
- 18) N. Nahavandi and M Abbasian, "Solving Multi-Objective Flexible Dynamic Job-Shop Scheduling Problem with Improved Genetic Algorithm", 6th Industrial Engineering Conference, Terhran, 2008.
- 19) N. Nahavandi and M. Abbasian, "Minimizing F_{max} in flexible Job-Shop with parallel machines in dynamic Environment", 6th International Conference on Industrial Engineering , Terhran, 2008.
- 20) N. Nahavandi, B. Ajdari, "How use of Internet affects perception of exporter Barriers? Experience of Website use among Iranian SMEs", IAIDS International Conference e- Society, 2008.
- 21) N. Nahavandi and M. T. Rajabi, "Evaluation of Teacher's Performance Using Computer Simulation", Third International Conference on Modeling, Simulation and Applied Optimization, Sharjah, UAE, 2009.
- 22) N. Nahavandi and B. Lak, "Determining risks in traffic congestion RFID ", RFID conference, Tehran, Iran, 2009.
- 23) N. Nahavandi and J. Parsaee, "Integrating Triz and TOC", Triz Conference, Tehran, Iran, 2009.
- 24) N. Nahavandi and M. Safarian, "Supplier Selection with Considering pre-Evaluation phase", First international and Third National Logistics and Supply chain Conference, Tehran, Iran, 2009.
- 25) N. Nahavandi, M. Hosseinzadeh Kashan, A. Hossein zadeh Kashan, "A new differential evolution algorithm for binary optimization ", Third International Conference of Operations Research, Tehran, 2010.
- 26) E. Nikbakhsh, N. Nahavandi, "Goal Programming Approach to the Bi-Objective Competitive Flow-Capturing Location-Allocation Problem", 7th International conference of Industrial Engineering, Isfahan, Iran, 2010.

- 27) N. Nahavandi, M. Azari khojasteh, E. Asadi, E. Saberi, "A Fuzzy multi-objective approach for interdependent information system project selection", 7th International conference of Industrial Engineering, Isfahan, Iran, 2010.
- 28) S. koochaki, N. Nahavandi, "Determining buffer size in critical chain ", First International conference of Innovation and Entrepreneurship, shiraz, Iran, 2010.
- 29) S. Koochaki, N. Nahavandi, L. Ghalami,"Buffer size determination in critical chain management with resource constraint", First International conference of Innovation and Entrepreneurship, shiraz, Iran, 2010.
- 30) N. Nahavandi, M. Maleki, M. Bolboli, "The Effect of Positions on Human Resource Attraction", First International conference of Innovation and Entrepreneurship, shiraz, Iran, 2010.
- 31) N. Nahavandi, K. Najafzadeh, "Comparing demand control side and supply manage in electricity generation by system dynamics approach", 8th Energy Conference, Tehran, 2010.
- 32) N. Nahavandi, F. Haghghi Rad, "Heat Transfer Approach to modeling and analysis of Reverse logistics Inventory models", 2nd International Conference on Mechanical, Industrial Engineering, Singapur, 2011.
- 33) N. Nahavandi, P. Mohammadi, "The effect of global crisis on economic growth of MENA countries by System Dynamics", Middle East Economic Association, Espain, 2011.
- 34) P. Mohammadi, N. Nahavandi, "Foreign trade relationships of MENA countries and global crises", Middle East Economic Association, Espain, 2011.
- 35) N. Nahavandi, K. Najafzadeh, "Modeling the effect of energy price on electricity generation", 8th International Energy Conference, Tehran, 2011.
- 36) N. Nahavandi, "Comparison of CONWIP, TOC and CWIPL in job shop", 21th International Conference of production Research, Germany, Stuttgart, 2011.
- 37) N. Nahavandi, F. Tanhaee, "Considering decision maker idea in product mix problem by goal programming", IEEE, Singapur, 2011.
- 38) N. Nahavandi, R. Hemmatgo, I. Nakhaee, "A modified algorithm to find a representative capacity with evenness consideration for non-additive robust ordinal regression", IEEE, Singapur, 2011.
- 39) N. Nahavandi, O. W. TapeGoli, " A Model for Project Portfolio Selection", 6th International Conference of Project Management", Tehran, Iran, 2011.

- 40) N. Nahavandi, Z. Chamanara, E. Shahtahmasbi, "Prioritizing key Indexes of selecting Saipa Export Markets", International Conference of Management, Tehran, Iran, 2012.
- 41) M. Mashreghi, N. Nahavandi, "Supply Chain Management and Information Technology", 8th International Industrial Engineering Conference, Tehran, Iran, 2012.
- 42) N. Nahavandi, M. Pourhossein,"Estimating electricity required generation capacity in Iran by system dynamics approach, 8th International conference of Industrial Engineering, Tehran, Iran, 2012.
- 43) F. Marandi, N. Rasouli, N. Nahavandi, " Supplier Ranking by integrated Goal DEA and AHP", International Conference of OR", Tabriz, Iran, 2012.
- 44) A. Salmasnia, A. Yazdekhashti, M.R. Aminnaseri, N. Nahavandi, "Optimizing Queuing system based on modified TOPSIS", International Conference of OR", Tabriz, Iran, 2012.
- 45) E. Asadi Gangraj, N. Nahavandi, A. Ebrahimzadeh, S. Dovali, "A two stage flexible flow shop scheduling model with unrelated parallel machines for ice cream industry", 13 th International conference on econometrics, Operations Research and Statistics, Cyprus, 2012.
- 46) M.T. Akhlaghi, N. Nahavandi, A. Saei, "A Model for Economic Production Quantity and Order Planning from a supplier with Considering Product Inspection and Storage Space Constraint", 2nd. International Conference on Management Entrepreneurship and Economic Development, Ghom, Iran, 2013.
- 47) N. Nahavandi, M. T. Akhlaghi, A. Saei, "A Model for Economic Production Quantity with Selling Defective Products, "2nd International Conference on Management Entrepreneurship and Economic Development, Ghom, Iran, 2013.
- 48) Y. Mohammad Safu, N. Nahavandi, S.K. Chaharsoughi, "Selecting Healthcare Waste Sterilization Machines in Iran's Hospitals by Using TOPSIS Method", 9th International Industrial Engineering Conference, Tehran, Iran, 2013.
- 49) H. Abbasi, N. Nahavandi, N. Salarie, "A Conceptual Model for Trend and Behavior of Organizational Rumor By System Dynamics Approach", 11th International Conference on Management, Tehran, Iran, 2013.
- 50) R. Sadeghi Rad, N. Nahavandi, "A Fuzzy Electre Approach for Defining Critical Path", 6th International Conference on Operation Research, 2013.
- 51) N. Nahavandi, M. Afsahi, S. Cheraghi, "Optimization of Warranty Period from two views of Manufacture and Buyer by Queuing Theory", 9th International Industrial Engineering Conference, Tehran, Iran, 2013.

- 52) F. Torabi Yegane, N. Nahavandi, "A Multi-Objective Model for deteriorated Items and its Solution by E- Constraint Method", 3th National Conference on Research of Industrial Engineering, Tehran, Iran, 2014.
- 53) Z. Hosseinzadeh, M. J. Monem, N. Nahavandi, "Effect of General and Regional Attributes on Ranking of Automatic Discharge Measurement Systems", 22nd International Congerss on Irrigation and Drainage - ICID, Korea, 2014.
- 54) F. Momayyezi, S. K. Chaharsooghi, N. Nahavandi, "Hob Location Model with considering Vehicles, Vehicle Cost and Flow-Related costs", 7th International Conference of Iranian Operations Research Society, Semnan, 2014.
- 55) E. Asadi Gangraj, N. Nahavandi, S. Safaei, "A Mathematical Model for Scheduling in Flexible Flow Shop with Unrelated Parallel Machines", 7th International Conference of Iranian Operations Research Society, Semnan, 2014.
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- 57) M. Shahrabi Farahani, M.R. Amin-Naseri, N. Nahavandi, "System Dynamics Modeling for Project Management and Inefficiencies of the Traditional Approach", 10th International Industrial Engineering Conference, Tehran, Tehran, 2014.
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- 60) M. Abbasi, N. Nahavandi, R. Mohammadpour, "Providing An Multi-Objective planning Model of Empty Containers Repositioning; Case Study Iranian Ports", International Conference on Industrial and Systems Engineering, Tehran, Iran, 2015.
- 61) R. Mohammadpour, N. Nahavandi, M. Abbasi, "Developing an Multi Objective Integration Quay Crane and Yard Truck Scheduling Model in Container Terminals", International Conference on Industrial and Systems Engineering, Tehran, Iran, 2015.
- 62) R. Mohammadpour, N. Nahavandi, M. Abbasi, "Mathematical Model for Supplier Selection Problem in Presence of Incremental Discounts for Quantity Orders", 11th International Industrial Engineering Conference, Tehran, Iran, 2015.

- 63) M. Sharifinia, N. Nahavandi, "Designing A Model For Performance Evaluation of Insurance Companies By Using Integrated BSC-DEA Method", 11th International Industrial Engineering Conference, Tehran, Iran, 2015.
- 64) F. Tanhaei, N. Nahavandi, S. Ahmadi Motlagh, "Improving for Drum-Buffer-Rope Material Flow Management with Attention to Second Bottlenecks and Free Goods in Job shop Environment", 11th International Industrial Engineering Conference, Tehran, Iran, 2015.
- 65) R. Azizi Usefvand, N. Nahavandi, "Effect of supply chain risk management on companies in Efficiency (Case study: Drug distribution companies)", 11th International Industrial Engineering Conference, Tehran, Iran, 2015.
- 66) M. Vardi Chari, N. Nahavandi, K. Jeirani, "Mathematical Model for Supplier Selection Problem in presence of Incremental Discounts for Quantity orders & Uncertainty", 11th International Industrial Engineering Conference, Tehran, Iran, 2015.
- 67) N. Nahavandi, H. Azimzadeh, "Multi-Objective, Stochastic, Human Resources Planning Problem Decision Making in a Job Shop Production System", Change Management conference, Tehran, Iran, 2016.
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- 69) H. Azimzade, N. Nahavandi, "Simulation of Central Repair Shop of MVM Company by System Dynamics Approach", 12th International Conference on Industrial Engineering (ICIE 2016), Tehran, Iran, 2016.
- 70) S. Ebrahimi Fard, N. Nahavandi, "Non-dominated Sorting Genetic Algorithm to Solve Bi-objective resource-constrained Project Scheduling problem with Time-Cost Trade-off ", 12th International Conference on Industrial Engineering (ICIE 2016), Tehran, Iran, 2016.
- 71) H. Azimzadeh, N. Nahavandi "Theory of Constraints and it's Application in the Service Sector", 2nd International Tools & Techniques Management Conference, Tehran, Iran, 2016.
- 72) S. Abuzari, N. Nahavandi, "Supplier Selection and Order Assignment in Electricity Industry", 4th International Conference on Applied Research on Management & Accounting, Tehran, Iran, 2016.
- 73) S. Behjat, M. Memarpour, N. Nahavandi, "Sport League Scheduling Using Constraint Programming Approach; Case Study Of Iran's Pro-League" 13th International Conference on Industrial Engineering (IIEC2017), Mazandaran, Iran, 2017.

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10- Thesis Supervised

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Mohsen Shahrabi Farahani (Advisor, M.Sc)
Omid Azade (Advisor, M.Sc)
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Nima Mirzaei (Advisor, M.Sc)
Hayede Khanifar (Advisor, M.Sc)
Masume Amirzadegani (Advisor, M.Sc)
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Ebrahim Asadi Gangraj (Guidance, Ph.D)
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Mohammad Abbasian (Guidance, Ph.D)
Reza Sadeghi Rad (Guidance, Ph.D)

Mohammad Shariatmadari (Guidance, Ph.D)
Saeed Behjat Khaje (Guidance, Ph.D)
Faranak Emtehani (Guidance, Ph.D)

Arman Sajedi Nejad (Advisor, Ph.D)
Ahmad Jafar Zadeh Afshari (Advisor, Ph.D)
Zeinab Hosseinzade Ghazi Chaki (Advisor, Ph.D)

11- Research Projects

Strategic Planning in Tarbiat Modares University.
Crisis Management in Tax Affairs Organization.
BPR in Ministry of Foreign Affairs Islamic Republic of Iran.
BPR in Ministry of Labor Islamic Republic of Iran.
Determine the hire rate of dredgers in Ports and Shipping Organization.
Developing an expert system for port's Tariff.
Mechanize the ordering system in Iran Khodro.

12- Honors and Awards

2016- Award for selected paper in International Conference on Research Findings in Industrial and Mechanical Engineering.
2004- Top Female Researcher in Iran
2003- Top Researcher in Road & Transportation Ministry
1996- Top Student Award of Amir Kabir Technical University (M.sc.Degree).