

In The Name of God

Nasim Nahavandi

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

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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 Monitoring, Evaluation and Quality Assurance Center of Ministry of Science, Research and Technology, 2024 until now.

Head of Performance Evaluation and Quality Assurance Office of Tarbiat Modares University, 2016 - 2024.

Member of the working group for Monitoring, Evaluation and Quality Assurance of the Universities of Tehran province- Member of the specialized working group of Research and Technology Institutes, 2018 -2024.

Head of Social and Economic Systems Dept., Industrial & Systems Engineering Faculty, Tarbiat Modares University, 2013 - 2018.

Professor at Tarbiat Modares University, Faculty of Industrial & Systems Engineering, 2020 until now.

Associate Professor at Tarbiat Modares University, Faculty of Industrial & Systems Engineering, 2013-2019.

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

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

#### **4- Referee for Journals:**

Journal of Manufacturing Systems  
IEEE Access  
Financial Innovation  
Computers and Industrial Engineering  
Transportation Research Part E -Logistics and Transportation  
Journal of Cleaner Production  
Kybernetes  
Environment, Development and Sustainability  
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  
Combination of System Dynamics and Mathematical Modeling (Multi objective)  
Performance Evaluation  
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**

Member of the founding board of Iran System Dynamics Society  
Member of Iran Institute of Industrial Engineering  
Member of Iran System Dynamics Society

#### **8- Research Projects**

Evaluating Performance of TMU's Strategic Plan by SD & LM  
Determining the Goals of key Indicators of TMU's Strategic Plan  
Evaluating the Performance of TMU's Department & Faculties  
Strategic Planning in Tarbiat Modares University (TMU).  
Crisis Management in Tax Affairs Organization.  
Evaluating the Effects of IT on Efficiency in Iran Telecommunication Company  
Providing a Secure Virtual Training Model in the National Iranian Oil Company  
Comparison of Material Flow Management Systems in Job Shop Environment  
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.  
Mechanization of the ordering system in Iran Khodro.

#### **9- Honors and Awards**

2021- Elected Professor of Tarbiat Modares University  
2020- Selected best book  
2018- Efforting Professor of Tarbiat Modares University  
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).

#### **10- Thesis Supervised**

Majid Mashayekhi (Guidance, M.Sc)  
Bahman Ajdari (Guidance, M.Sc)  
Taraneh Khoshoe (Guidance, M.Sc)  
Jaleh Parsaee (Guidance, M.Sc)  
Atousa Farzad (Guidance, M.Sc)  
Shima Dehbashi (Guidance, M.Sc)  
Mohammad Abbasian (Guidance, M.Sc)  
Mojtaba Safarian (Guidance, M.Sc)  
Mohammad Hadi Ketabchi (Guidance, M.Sc)  
Mohammad Malekzadeh (Guidance, M.Sc)  
Alireza Ghajari (Guidance, M.Sc)  
Omid Weisi Tappehgoli (Guidance, M.Sc)  
Omid Bigdeli (Guidance, M.Sc)

Kian Najafzadeh (Guidance, M.Sc)  
Farshid Jahangiri (Guidance, M.Sc)  
Samaneh Koochaki (Guidance, M.Sc)  
Mina Hoseinzadeh Kashan (Guidance, M.Sc)  
Fahimeh Tanhaei (Guidance, M.Sc)  
Mehdi Pour Hossein (Guidance, M.Sc)  
Roghayye Hemmatgo (Guidance, M. Sc)  
Zahra Chaman Ara (Guidance, M. Sc)  
Elham Shakooshaker (Guidance, M. Sc)  
Saeed Imeni (Guidance, M. Sc)  
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Ali Majlesi (Guidance, M.Sc)  
Amin Naderi (Guidance, M.Sc)  
Roghayye Azizi Usefvand (Guidance, M.Sc)  
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Seddighe Heidari (Guidance, M.Sc)  
Roxana Nasri Nazif (Guidance, M.Sc)  
Hossein Zeini Ardakani (Guidance, M.Sc)  
Behzad Lak (Guidance, M.Sc)  
Golestaneh Sheini Dashtgol (Guidance, M.Sc)  
Tayyebah Sabbaghi (Guidance, M.Sc)  
Mahshid Mashreghi (Guidance, M.Sc)  
Maysam Keyvani (Guidance, M.Sc)  
Masume Atashpaz Gargari (Guidance, M.Sc)  
Alireza Barzegari (Guidance, M.Sc)  
Milad Sharifinia (Guidance, M.Sc)  
Malihe Taghikhoo (Guidance, M.Sc)  
Mojtaba Olad (Guidance, M.Sc)  
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Majid Abbasi (Guidance, M.Sc)  
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Sonia Ebrahimi Fard Sharabiani (Guidance, M.Sc)  
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Hossein Azimzade (Guidance, M.Sc)  
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Fatemeh Jafari Pakzad (Guidance, M.Sc)  
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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)  
Marjan Gharakhani (Guidance, Ph.D)  
Mohammad Reza Korzebor (Guidance, Ph.D)  
Mohammad Saeedi (Guidance, Ph.D)  
Reza Izadbakhsh (Guidance, Ph.D)  
Hamed Dehghan Tezerjani (Guidance, Ph.D)  
Peyman Noori (Guidance, Ph.D)  
Hossein Malek Mohammadi (Guidance, Ph.D)  
Mahyar Najarian (Guidance, Ph.D)

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

## **11- Book**

Nasim Nahavandi, Mohammad Abbasian, Integrated Material Flow Management and Scheduling in Production Environments, Tarbiat Modares University Press, Tehran, Iran, 2019.

## **12- 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. Haghighirad, "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. Haghighi, "Integrated Versus nonintegrated inventory management", *African Journal of Business management*, 5 (9), 3436-3447, 2011.

14) N. Nahavandi, J. Parsaei 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. Haghighi 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. Haghighi 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. Haghighi Rad, "Integrated versus non-integrated inventory management", *African Journal of Business Management*, 5(9), 3436-3447, 2011.

24) N. Nahavandi, K. Najafzadeh, "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 problem 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 problem", 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 Productional 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 Productional 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. Sobhie, "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*, 16(52), 26, 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) A. Omid, S. H. Zegordi, N. Nahavandi, "Assessing Dynamic Efficiency of Machine-made Carpet Industry by Network DEA Technique", Production and Operations Management, 9 (16), 2018.

74) S. N. Hashemi, N. Nahavandi, "Evaluation of transportation service quality of metro lines in Tehran by a hybrid approach based on SERVQUAL and fuzzy TOPSIS", Journal of Transportation Research, 58, 73-86, 2019.

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 Journal, 34-1(2/1), 111-120, 2019.

76) N. Nahavandi, A. Ahmadian, "Dynamic Analysis of Water Demand; Case Study of Qom City", Iran-Water Resources Research, 15 (1), 372-377, 2019.

77) S. Behjat, N. Nahavandi, "A Mathematical Model and Grouping Imperialist Competitive Algorithm for Integrated Quay Crane and Yard Truck Scheduling Problem with Non-crossing Constraint", International Journal of Engineering, 32 (10), 1464-1479, 2019.

78) M. Shariatmadari, N. Nahavandi, "Identification and assessment of risks in petrochemical projects in Iran; case study: Bakhtar Petrochemical Company", Journal of Structural and Construction Engineering, 7 (2), 101-123, 2020.

79) S. Behjat, N. Nahavandi, "Quay Cranes and Yard Trucks Scheduling Problem at Container Terminals", International Journal of Engineering, 9 (33), 1751-1758, 2020.

80) M. Shariatmadari, N. Nahavandi, "A new resource buffer insertion approach for proactive resource investment problem", Computer and Industrial Engineering, 146, 1-10, 2020.

81) S. Abuzari, N. Nahavandi, "Presenting supplier selection and order allocation model and development of Fordis-Webster three-dimensional algorithm considering deficiency (Case Study: High Voltage Switches Manufacturer) ", Modern Research in Decision Making, 5(2), 21-47, 2020.

82) F. Emtehani, N. Nahavandi, F. Mokhtab Rafiei, "An operations-finance integrated model with financial constraints for a manufacturer in a multi-supplier multi-product supply chain, Computers and Industrial Engineering, 153, 1-16, 2021.

83) N. Nahavandi, N. Bakhshi "Performance Evaluation of Telecommunication Services Provision with Combined Approach of Balanced Scorecard and System Dynamics (Case Study: Telecommunications Infrastructure Company)", International Journal of Intelligent Engineering Informatics, 8(5/6), 439-470, 2021.

84) N. Nahavandi, M. B. Ajayebi, "Anti-poverty policies analysis for the rural households in Iran: A system dynamics approach", International Journal of Intelligent Engineering Informatics, 9 (1), 88-118, 2021.

85) F. Emtehani, N. Nahavandi, F. Mokhtab Rafiei, "A Joint Inventory-Finance Model for Coordinating a Capital-Constrained Supply chain with Financing Limitations", Financial Innovation, 7 (6), 1-39, 2021.

86) H. Dehghan, M. R. Amin-Naseri, N. Nahavandi, "A system dynamics model to analyze future electricity supply and demand in Iran under alternative pricing policies", Utilities Policy, 69, 1-15, 2021.

- 87) N. Pak, N. Nahavandi, B. Bagheri, "Designing a multi-objective green supply chain network for an automotive company using an improved meta-heuristic algorithm", *International Journal of Environmental Sciences and Technology*, 2022.
- 88) P. Tavakkoli, N. Nahavandi, "Risk management of procurement processes in automotivesupply chain; Bahman Moyor Company", *International Journal of Industrial Engineering: Theory, applications and Practice*, 29 (1), 93-116, 2022.
- 89) A. Rasaizadi, A. Ardestani, N. Nahavandi, "Airplane selection to renovate air transportation system: a multi-criteria decision-making problem", *Advance Researches in Civil Engineering*, 3 (3), 61-75, 2021.
- 90) M. Abbasian, N. Nahavandi, "Evaluation and Selection of Turbine Suppliers for Wind Farms Using the Combined Approach of AHP and TOPSIS with the Aim of Sustainable Development of the Electricity Industry", *Management and Sustainable Development Studies*, 2 (1), 1-27, 2022.
- 91) N. Nahavandi, M. A. Gorji, "The impact of inspection policies on reducing disease prevalence in public buildings: A systems dynamics approach", *Building and Environment*, 223, 1-14, 2022.
- 92) H. Dehghan, M. R. Amin-Naseri, N. Nahavandi, "A hybrid game theory and system dynamics model to determine optimal electricity generation mix", *Computers and Chemical Engineering*, 166, 1-10, 2022.
- 93) N. Razzaghi, N. Nahavandi, "Port Investment Modeling by System Dynamics Approach (Case Study: Container Terminal of Shahid Rajaei port)", *Sharif Industrial Engineering & Management Journal*, Accepted, 2024.
- 94) F. Emtehani, N. Nahavandi, F. MokhatabRafiei, "Designing a coordinating contract based on the trade credit financing in a multi-product multi-supplier supply chain under financial constraints", *Sharif Industrial Engineering & Management Journal*, Accepted, 2024.
- 95) M.R. Korzebor, N. Nahavandi, "A system dynamics model of the COVID-19 pandemic considering risk perception: A case study of Iran", *Risk Analysis*, 1-16, 2023.
- 96) M. Rajeeian, N. Nahavandi, "Quantitative Risk Allocation of BOT Projects in Road Construction", *Transportation Research*, 20 (1), 74, 197-212, 2023.
- 97) M. A. Gorji, N. Hadavi, N. Nahavandi, "Improving urban resilience against climate change through government tax policies to housing companies: A game-theoretic approach", *Urban Climate*, 49, 1-17, 2023.
- 98) M.R. Korzebor, N. Nahavandi, "A bed allocation model for pandemic situation considering general demand: A case study of Iran", *Risk Analysis*, 1-17, 2024.

- 99) F. Emtehani, N. Nahavandi, F. Mokhtab Rafiei, "Trade credit financing for supply chain coordination under financial challenges: a multi-leader-follower game approach", *Financial Innovation*, 9 (1), 1-39, 2023.
- 100) M. Abbasian, N. Nahavandi, "Evaluation and Selection of Turbine Suppliers for Wind Farms Using the Combined Approach of AHP and TOPSIS with the Aim of Sustainable Development of the Electricity Industry", *Management and Sustainable Development Studies*, 2(1), 1-27, 2022.

## 12- Papers in Conferences

- 1) N. Nahavandi, "Comparing JIT, Job shop and GT& JIT by Simulation", The 2<sup>nd</sup> Industrial Engineering Conference, Amir Kabir Technical University, 1994.
- 2) N. Nahavandi, "Design A Tarriff Model for Loading and Unloading in Ports, The 3<sup>rd</sup> Industrial Engineering Conference, Science and Technology University, 1995.
- 3) N. Nahavandi, "Design A Tarriff Model for Load, Unload and Container Storage in Ports, The 3<sup>rd</sup> Marine Techniquial Conferences, Tarbiat Modares University, 1996.
- 4) S. H. Zegordi, and N. Nahavandi, "Measuring Productivity Indexes and Efficiency in Ports and Shipping Organization", The 6<sup>th</sup> Industrial Engineering Conference, Sharif Technical University, 1998.
- 5) S. K. Chaharsooghi, and N. Nahavandi, "Determining Performance Measures in Flow Lines" The 2<sup>nd</sup> 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 unsuccessfull Strategic planning", 5<sup>th</sup> 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 4<sup>th</sup> 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)", 4<sup>th</sup> International Project management Conference, 2008.
- 17) N. Nahavandi, O. Weisi and D. A. Ardakani, "An Integrated Decision Model for Strategic Decision making", The 6<sup>th</sup> 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", 6<sup>th</sup> Industrial Engineering Conference, Terhran, 2008.
- 19) N. Nahavandi and M. Abbasian, "Minimizing  $F_{\max}$  in flexible Job-Shop with parallel machines in dynamic Environment", 6<sup>th</sup> 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", 8<sup>th</sup> Energy Conference, Tehran, 2010.
- 32) N. Nahavandi, F. Haghighi Rad, "Heat Transfer Approach to modeling and analysis of Reverse logistics Inventory models", 2<sup>nd</sup> International Conference on Mechanical, Industrial Engineering, Singapour, 2011.
- 33) N. Nahavandi, P. Mohammadi, "The effect of global crisis on economic growth of MENA countries by System Dynamics", Middle East Economic Association, Spain, 2011.
- 34) P. Mohammadi, N. Nahavandi, "Foreign trade relationships of MENA countries and global crises", Middle East Economic Association, Spain, 2011.
- 35) N. Nahavandi, K. Najafzadeh, "Modeling the effect of energy price on electricity generation", 8<sup>th</sup> International Energy Conference, Tehran, 2011.

- 36) N. Nahavandi, "Comparison of CONWIP, TOC and CCIPL 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, Singapour, 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, Singapour, 2011.
- 39) N. Nahavandi, O. W. TapeGoli, "A Model for Project Portfolio Selection", 6<sup>th</sup> 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", 6<sup>th</sup> 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 Congress 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.
- 56) R. Hemmatjou, N. Nahavandi, B. Moshiri, "Proposing a Model to Evaluate the Construction Projects' HSE Considering the Impact of External Factors (Case Study- The MD-2 Company's Terminated Power Plant Projects)", 10th International Industrial Engineering Conference, Tehran, Iran, 2014.
- 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.
- 58) M. Pourhossein, N. Nahavandi, M. K. Sheikholeslami "Dynamic Analysis of Investment in Power Generation Considering Subsidized Elimination Policy", 10th International Industrial Engineering Conference, Tehran, Iran, 2014.
- 59) M. Abbasi, N. Nahavandi, R. Mohammadpour, "A Multi-Objective Model of Empty Containers Transportation Planning; Iranian Ports", The International Conference on New Research in Industry and Mechanical Engineering, Tehran, Iran, 2015.

- 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.
- 68) Z. Hosseinpour, N. Nahavandi, "Applying BSC-DEA Method for Performance Evaluation of Banks Credit Unit; Case study in Tosee Credit Institution", 12th International Conference on Industrial Engineering (ICIE 2016), Tehran, Iran, 2016.
- 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", 4<sup>th</sup> 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" 13<sup>th</sup> International Conference on Industrial Engineering (IIEC2017), Mazandaran, Iran, 2017.
- 74) M. Abbasian, N. Nahavandi, " A Hybrid Genetic Algorithm with Intelligent Agents for the FJm|ri, different Priority Levels|Fmax ", 7<sup>th</sup> Industrial Conference on Industrial Engineering and Operations Management, Rabat, Morocco, April 2017.
- 75) N. Nahavandi, V. Heidarpour, "Performance Evaluation of Container Terminal in Ports by System Dynamics", Development of Iran's Marine Economy, Nov 2017.
- 76) M. Bagheri, M. Saeidi-Mehrabad, N. Nahavandi, S. Behjat, "Modeling a dynamic cellular manufacturing system with alternative routes for processing and considering machine breakdown", 13th international conference on Industrial Engineering, Iran, 2017.
- 77) N. Nahavandi, M. Elmi, "Dynamic modeling of addiction", The First International Conference of the Society of System Dynamics, Iran, Tehran, 2017.
- 78) N. Bakhshi, N. Nahavandi, "Performance Evaluation of Telecommunication Services Provision with Combined Approach of Balanced Scorecard and System Dynamics", 15<sup>th</sup> Iran International Industrial Engineering Conference, Iran, Yazd, 23-24 Jan 2019.
- 79) N. Nahavandi, P. Tavakkoli, "Assessing the risks of the automotive supply chain using the integrated method of FMEA and TOPSIS", 15<sup>th</sup> Iran International Industrial Engineering Conference, Iran, Yazd, 23-24 Jan 2019.
- 80) N. Nahavandi, S. M. Ajayebi, "System Dynamics Modeling of rural household in Iran", 15<sup>th</sup> Iran International Industrial Engineering Conference, Iran, Yazd, 23-24Jan 2019.
- 81) N. Pak, N. Nahavandi, B. Bagheri, "Presenting a multi-criteria model of green supply chain transportation of the automobile company", 13<sup>th</sup> International Conference of Iranian Operations Research Society, Iran, Shahrood, Sep 2020.
- 82) A. Rasa-Izadi, N. Nahavandi, "The problem of choosing airplane for renewing the fleet of airline companies as a multi-criteria decision making problem", 18 th International Conference on Traffic & Transportation Engineering, 2020.

- 83) Z. Hosseini-Afzal, A. Albadvi, N. Nahavandi, "Dynamic modeling of the role of venture capitals in the innovation ecosystem of Iran's biotechnology industry", Third National Conference of The System Dynamics Society, Iran, Tehran, May 2021.
- 84) M. Bagherian, N. Nahavandi, "Studying the application and optimization strategy of Lowenberg-Marquardt diffusion algorithm in evaluating the performance of the supply chain of the detergent industry", The Second International Conference on Optimization of Production and Service Systems, Iran, 2022.
- 85) F. Emtehani, M. Rjabzadeh, N.nahavandi, F. MokhatabRafiei, "Investigating the effects of integrating operational and financial decisions on the profitability of manufacturing companies in financial crisis conditions", The First International Conference on the Mutation of Management, Economics and Accounting Sciences, Iran, 2022.
- 86) F. Emtehani, M. Rjabzadeh, N.nahavandi, F. MokhatabRafiei, "Coordinating a three-level supply chain with financial constraints", The Second International Conference on Computing and Distributed Systems, Iran, 2022.
- 87) N. Nahavandi, M. Bagherian, "Evaluation of supply chain management performance factors of Behpakhsh Company with Analytical Hierarchy Process (AHP) and SWARA", The First International Conference on the Ability of Management, Industrial Engineering, Accounting and Economics, Iran, 2023.
- 88) M. Bagherian, N. Nahavandi, "Analysis and evaluation of the effective barriers to block chain implementation in the supply chain management of Behshahr Industries Development Holding: Integrated framework of IFAHP-DEMATEL", The 8th International Logistics and Supply Chain Conference, Iran, Tehran, 2023.
- 89) J. Moghaddasi, E. Nikbakhsh, N. Nahavandi, "Dynamic model of grain corn production in Iran considering sustainability factors", The Fourth International Conference of the Society of System Dynamics, Iran, Tehran, 2023.
- 90) Z. Koochaki, N. Nahavandi, "Presenting the performance evaluation model of university using System Dynamics", The Fourth International Conference of the Society of System Dynamics, Iran, Tehran, 2023.
- 91) A. Salehi GHahfarakhi, N. Nahavandi, E. Nikbakhsh, "Optimization of a joint purchasing-blending problem for a multi-level mine supply chain", Conference on Business Process Management & Engineering, Iran, Tehran, 2023.
- 92) A. Marzban, N. Nahavandi, E. Nikbakhsh, "Environmental impact analysis with production and inventory modeling in the integrated and sustainable supply chain of the ferroalloy industry", The 2nd National and 1st International Conference on Environmental Challenges: Green Industry and Mining, Iran, Tehran, 2024.

- 93) A. Rajabzadeh, N. Nahavandi, S. Sabetghadam, “Long-term forecasting of pharmaceutical company demand with direct and recursive approaches -random forest method”, International Conference on Management Laboratory and Innovative Approaches in Management and Economics, Iran, Tehran, 2024.
- 94) M. Najjarian, N. Nahavandi, M. Azod, “Investigating and evaluating the key factors of success in the implementation of organizational resource planning system in the packaging industry: a case study of carton factory in Isfahan”, 17th International Conference of Iranian Operations Research Society, Iran, Tehran, 2024.