

# *Curriculum Vitae*

## *As of 3/21/2023*

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### HONORS AND AWARDS

- Top 1% most-cited authors in the category of Engineering over the last ten years (Essential Science Indicators (ESI), Web of Science). Date visited: 2/24/2023.
- “World's Top 2% Scientist”, Released on 10 Oct 2022.  
<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/4>
- “World's Top 2% Scientist”, Released on 19 Oct 2021.  
<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/3>
- “World's Top 2% Scientist”, Released on 8 Oct, 2020.  
<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/2>
  - \* The US-based Stanford University has released on Nov 2020 a list that represents the top 2 percent of the most-cited scientists in various disciplines. Scientists are classified into 22 scientific fields and 176 sub-fields. The exhaustive list has 159,683 persons. The list has 434 scientists, doctors and engineers from Iran.
- “Honorary Degree”, Tarbiat Modares University, 2022.
- “Outstanding Researcher”, Tarbiat Modares University, 2022.
- “Diligent Vice Chancellor for Education”, Tarbiat Modares University, 2022.
- “Honorary Degree”, Tarbiat Modares University, 2021.
- “Honorary Degree”, Tarbiat Modares University, 2020.
- “Outstanding Researcher”, Tarbiat Modares University, 2020.
- “Outstanding Young Scientist of Industrial Engineering”, the Academy of Sciences of the Islamic Republic of Iran, 2016.

✱ The Department of Engineering Sciences of the Academy held 13th honoring ceremony of prestigious engineers and 4th honoring ceremony of prominent Iranian young scientists in engineering, on the Engineer's Day at 24th February, 2016. In this event which is held annually, at most 3 distinguished engineering professors, 3 prestigious engineers, and 6 prominent young scientists in different engineering fields are honored nationwide. I was the second person in the country who achieved this award in the field of Industrial Engineering.

- “Outstanding Researcher”, Tarbiat Modares University, 2015.
- Iran National Elite Foundation award; “Research Grant Award for Young Assistant Professors”, 2012.
- Iran National Elite Foundation award; “Scientific Award for Postdoc Researchers”, 2010.
- Iran National Elite Foundation “Scientific Award”, 2009.
- Deserve to appreciate, Iranian “12<sup>th</sup> Book of the Season Award” for: Slack N, Lewis M (2002). Operations Strategy. Prentice-Hall. (Translated into Persian by Moattar Husseini S.M, Husseinzadeh Kashan A, Amirkabir University Press, 2009). The book was deserved to appreciate together with 38 books amongst 5887 books published during the season.
- Outstanding Ph.D student, Amirkabir University of technology, 2005-2009 (Ranked 2nd among 9 students of IE).
- Ranked 2nd in Industrial Engineering Ph.D entrance examination, Amirkabir University of Technology, 2005.
- Outstanding M.Sc student, Amirkabir University of Technology, 2003-2005 (Ranked 1th among 10 students of IE).
- Outstanding B.Sc student, South Tehran University, Iran, 1999-2003 (Ranked 2nd among 149 students of IE).

## **PROFESSIONAL WORK EXPERIENCES**

- Head of the Digital Transformation Center, Tarbiat Modares University (May, 2021-Nov, 2022).
- Vice Chancellor of Education, Faculty of Industrial and Systems Engineering, Tarbiat Modares University (Since Dec, 2021).
- Vice Chancellor of Science and Innovation, Faculty of Industrial and Systems Engineering, Tarbiat Modares University (Apr, 2021-Dec, 2021).
- Deputy Co-Head of Strategic Change Plan, Tarbiat Modares University (Nov, 2020-Sep, 2021).
- Associate Professor at the Faculty of Industrial and Systems Engineering, Tarbiat Modares University (Since Dec, 2018).
- Founder of logistics and supply chain management program in the Faculty of Industrial and Systems Engineering, Tarbiat Modares University (Since Apr 2018).
- Head of the Socio-Economic Engineering Group, Faculty of Industrial and Systems Engineering, Tarbiat Modares University (Nov, 2018- Dec, 2021).
- Assistant professor at the Faculty of Industrial and Systems Engineering, Tarbiat Modares University (Apr, 2013-Dec, 2018).

- Assistant professor at the Group of Industrial Engineering, Islamic Azad University, Science and Research Branch of Tehran (Sept, 2011-March, 2013).

#### **AREA OF RESEARCH INTEREST**

- Advanced mathematical modeling and operations research techniques for supply chain management, production scheduling, and logistics planning.
- Data driven multi-criteria decision making and developing new approaches for multi attribute decision making and their applications
- Computational intelligence and engineering design with nature and socio inspired algorithms
- Combinatorial optimization and approximation algorithms
- Probabilistic models, simulation based optimization and data driven optimization.

#### **PUBLICATIONS**

##### **List of the journals I managed to publish papers in them**

<b>Journal</b>	<b>Impact factor (2022)</b>
Journal of Cleaner Production	11.072
Sustainable Production and Consumption	8.921
Energy	8.857
Omega	8.673
Expert Systems with Applications	8.665
International Journal of Production Research	8.568
Pattern Recognition	8.518
Applied Soft Computing	8.263
Information Sciences	8.233
Engineering Applications of Artificial Intelligence	7.802
Computers & Industrial Engineering	7.18
Applied Mathematical Modelling	5.336
Environmental Science and Pollution Research	5.19
Computers & Operations Research	5.159
Neural Computing and Applications	5.102
International Journal of Disaster Risk Reduction	4.842
Annals of Operations Research	4.82
Journal of Computing in Civil Engineering	4.64
Advances in Engineering Software	4.255
Electric Power Systems Research	3.818
Soft Computing	3.732
Computer-Aided Design	3.652
International Journal of Advanced Manufacturing Technology	3.563
International Journal of Environmental Science and Technology	3.519
International Journal of Information Technology & Decision Making	3.508
IEEE Access	3.476
Energies	3.252
Journal of the Operational Research Society	3.051
The Structural Design of Tall and Special Buildings	2.760

Operational Research	2.708
OR Spectrum	2.474
Journal of Computational Intelligence Systems	2.259
International Journal of Civil Engineering	2.184
Complexity	2.121
Proceedings of the Institution of Mechanical Engineers Part O-Journal of Risk and Reliability	2.021
Earthquakes and Structures	2.018
Iranian Journal of Fuzzy Systems	2.006
Computational Optimization and Applications	2.005
Mathematical Problems in Engineering	1.430
Scientia Iranica	1.416
Journal of Systems Science and Systems Engineering	1.265
Journal of Combinatorial Optimization	1.262
Theoretical Computer Science	1.002
International Journal of Engineering	ESCI/SCOPUS
Carpathian journal of food science and technology	ESCI/SCOPUS
Civil Engineering Infrastructure Journal	ESCI/SCOPUS
Production Engineering	ESCI/SCOPUS
Journal of Advanced Manufacturing Systems	ESCI/SCOPUS
Iranian Journal of Management Studies	ESCI/SCOPUS
International Journal of Mathematics in Operational Research	SCOPUS
International Journal of Logistics Systems and Management	SCOPUS
International Journal of Industrial and System Engineering	SCOPUS
Journal of Applied Research on Industrial Engineering	-
International Journal of Industrial Engineering & Management Science	-
Advances in Mathematical Finance and Applications	-
International Journal of Hospital Research	-

## **Editorial**

1. Kulkarnia AJ, **Husseinzadeh Kashan A** (2021). Socio-cultural inspired Metaheuristics. *Soft Computing Letters*, 3, 100030.

## **Journal papers**

### **Accepted papers for publication**

1. Najafian M, **Husseinzadeh Kashan A**, Akbari A, Mohammadi Tabar D (2022). Milk-Run Logistics with Shape Changeable Loads: Mixed Integer Linear Formulation and Grouping Evolution Strategy Algorithm. *Scientia Iranica*.
2. Kaheh Z, Baradaran Kazemzadeh R, Masehian E, **Husseinzadeh Kashan A** (2022). A Mathematical Negotiation Mechanism for Distributed Procurement Problems and a Hybrid Algorithm for its Solution. *Scientia Iranica*.

## **Published journal papers**

### **2023**

3. Farahani M, Zegordi SH, **Husseinzadeh Kashan A** (2023). Developing a solution algorithm for the autonomous electric vehicle routing problem considering the mixed fleet. *IEEE Access*, 8207-8222.
4. Ebrahimi M, Ostadi B, Sepehri M, **Husseinzadeh Kashan A** (2023). A systematic literature review of organization resilience, business continuity, and risk: Towards process resilience and continuity. *Iranian Journal of Management Studies*, 16, 229-257.

## 2022

5. **Husseinzadeh Kashan A**, Ozturk O (2022). Improved MILP Formulation Equipped with Valid inequalities for Scheduling a Batch Processing Machine with Non-identical Job Sizes. *Omega*, 102673.
6. Mohammadzadeh N, Zegordi SH, **Husseinzadeh Kashan A**, Nikbakhsh E (2022). Optimal government policy-making for the electric vehicle adoption using the total cost of ownership under the budget constraint. *Sustainable Production and Consumption*, 33, 477-507.
7. Khorsi M, Chaharsooghi SK, **Husseinzadeh Kashan A**, Bozorgi A (2022). Solving the humanitarian multi-trip cumulative capacitated routing problem via a grouping metaheuristic algorithm. *Annals of Operations Research*, 319, 173–210.
8. Farhadi Sartangi M, **Husseinzadeh Kashan A**, Haleh H, Kazemi A (2022). A Mixed Integer Linear Formulation and a Grouping League Championship Algorithm for a Multiperiod-Multitrip Order Picking System with Product Replenishment to Minimize Total Tardiness. *Complexity*, Volume 2022, 1382558, 1-24.
9. Kamyabi E, Moazzez H, **Husseinzadeh Kashan A** (2022). A hybrid system dynamics and two-stage mixed integer stochastic programming approach for closed-loop battery supply chain optimization. *Applied Mathematical Modelling*, 106, 770-798.
10. Rafigh P, Akbari AA, Mohammadi Bidhandi, **Husseinzadeh Kashan A** (2022). A sustainable supply chain network considering lot sizing with quantity discounts under disruption risks: centralized and decentralized models. *Journal of Combinatorial Optimization*, 44, 1387–1432.
11. Motamedi O, Ostadi B, Zagia F, **Husseinzadeh Kashan A** (2022). A novel optimization model for bidding in the deregulated power market with pay as a bid settlement mechanism, based on the stochastic market clearing price. *Electric Power Systems Research*, 210, 108122.
12. Heidary Dahooie J, **Husseinzadeh Kashan A**, Shoaie Naeini Z, Vanaki AS, Zavadskas EK, Turskis Z (2022). A hybrid Multi-Criteria-Decision-Making aggregation method and Geographic Information System for selecting optimal solar power plants in Iran. *Energies*, 15, 2801.

## 2021

13. Afsahi M, **Husseinzadeh Kashan A**, Ostadi B (2021). A hybrid approach for joint optimization of base and extended warranty decisions considering out-of-warranty products. *Applied Mathematical Modelling*, 95, 176–199.
14. Afsahi M, **Husseinzadeh Kashan A**, Ostadi B (2021). A bi-objective simulation-based optimization approach for optimizing price, warranty, and spare part production decisions under imperfect repair. *International Journal of Information Technology & Decision Making*, 20, 903-932.
15. Sharanlou H, **Husseinzadeh Kashan A**, Tavakkoli-Moghaddam R (2021). Determining the price and refund of products in a supply chain with quality and advertising costs in a fuzzy environment. *Soft Computing*, 25, 2351-2370.

16. Ostadi B, Seifi M.M, **Husseinzadeh Kashan A** (2021). A multi-objective model for resource allocation in disaster situations to enhance the organizational resilience and maximize the value of business continuity with considering events interactions. *Proceedings of the Institution of Mechanical Engineers Part O-Journal of Risk and Reliability*, 235, 814–830.
17. Khorsi M, Chaharsooghi SK, **Husseinzadeh Kashan A**, Bozorgi-Amiri A (2021). Pareto-based grouping meta-heuristic algorithm for humanitarian relief logistics with multi state network reliability. *OR Spectrum*, 43, 327–365.
18. Nasr N, Niaki STA, **Husseinzadeh Kashan A**, Seifbarghy M (2021). An efficient solution method for an agri-fresh food supply chain: Hybridization of Lagrangian relaxation and genetic algorithm. *Environmental Science and Pollution Research*. <https://doi.org/10.1007/s11356-021-13718-8>
19. Momayezi F, Charsooghi SK, Sepehri M, **Husseinzadeh Kashan A** (2021).The Capacitated Modular Single-Allocation Hub Location Problem with Possibilities of Hubs Disruptions: Modeling and a solution algorithm. *Operational Research*, 21,139–166.
20. Parisa Rafigh P, Akbari A, Mohammadi Bidhandi H, **Husseinzadeh Kashan A** (2021). A fuzzy rule-based multi-criterion approach for a cooperative green supplier selection problem. *Environmental Science and Pollution Research*. <https://doi.org/10.1007/s11356-021-17015-2>
21. Parisa Rafigh P, Akbari A, Mohammadi Bidhandi H, **Husseinzadeh Kashan A** (2021). Sustainable closed-loop supply chain network under uncertainty: A response to the COVID-19 pandemic. *Environmental Science and Pollution Research*. <https://doi.org/10.1007/s11356-021-16077-6>.
22. Hasani Goodarzi A, Zegordi SH, Gülgün A, Kamalabadi IN, **Husseinzadeh Kashan A** (2021). Reliable cross-docking location problem under the risk of disruptions. *Operational Research*, 21, 1569–1612.
23. Teimouri M, Sheikh Mohammadi M, **Husseinzadeh Kashan A**, Shojaee A.A (2021). Developing an Iterative Procedure to Estimate Origin-Destination Matrix Based on Two-Point License Plate Tracking System. *Scientia Iranica*, 28, 2361-2373.
24. Zarouri F, Zegordi S.H, **Husseinzadeh Kashan A** (2021). Dynamic pricing in a semi-centralized dual-channel supply chain with a reference price-dependent demand and production cost disruption. *Scientia Iranica*, 28, 3634-3652.
25. Hassanzadeh Nodeh I, Zegordi SH, Nakhai Kamalabadi I, **Husseinzadeh Kashan A** (2021). Simultaneous production planning and scheduling in a production line of IV (intravenous) fluids and irrigation solutions. *International Journal of Hospital Research*, 10, 4, 1-22.

## 2020

26. Ranjbaran F, **Husseinzadeh Kashan A**, Kazemi A (2020). Mathematical formulation and heuristic algorithms for optimization of auto-part milk-run logistics network considering forward and reverse flow of pallets. *International Journal of Production Research*, 58, 1741-1775.
27. Motamedi O, Ostadi B, **Husseinzadeh Kashan A** (2020). Risk-based optimal bidding patterns in the deregulated power market using extended Markowitz model. *Energy*, 191, 116516.
28. Zarei J, Aminnaseri MR, Fakehi AH. **Husseinzadeh Kashan A** (2020), A sustainable multi-objective framework for designing and planning the supply chain of natural gas components. *Journal of Cleaner Production*, 259, 120649.

29. Zahedi A, Kargari M, **Husseinzadeh Kashan A** (2020). Multi-Objective Decision-Making Model for Distribution Planning of Goods and Routing of Vehicles in Emergency. *International Journal of Disaster Risk Reduction*, 48, 101587.
30. Afsahi M, **Husseinzadeh Kashan A**, Ostadi B (2020). Optimizing decisions on under-and out-of-warranty products in a finite planning horizon. *Scientia Iranica*, 27, 494-515.
31. **Husseinzadeh Kashan A**, Eyvazi M, Abbasi-Pooya A (2020). An Effective League Championship Algorithm for the Stochastic Multi-Period Portfolio Optimization Problem. *Scientia Iranica*, 27, 829-845.
32. Khorsi M, Charsooghi SK, Bozorgi-Amiri A, **Husseinzadeh Kashan A** (2020). A multi-objective multi-period model for humanitarian relief logistics with split delivery and multiple uses of vehicles. *Journal of Systems Science and Systems Engineering*, 29, 360–378.
33. Rezaei N, Chaharsooghi SK, **Husseinzadeh Kashan A**, Babazadeh R (2020). A new approach based on scenario planning and prediction methods for the estimation of gasoil consumption. *International Journal of Environmental Science and Technology*, 17, 3241–3250.
34. Rezaei M, Chaharsooghi SK, **Husseinzadeh Kashan A**, Babazadeh R (2020). Optimal design and planning of biodiesel supply chain network: A scenario-based robust optimization approach. *International Journal of Energy and Environmental Engineering*, 11, 111–128.
35. Rasouli N, Naseri M, Nakhai E, **Husseinzadeh Kashan A** (2020). Coordination of pricing and order quantity for two replaceable and seasonal products. *International Journal of Engineering*, 33, 439-447.
36. Soheylinia H, **Husseinzadeh Kashan A**, Soheyliniya S (2020). A combined QFD-GAHP technique to translate customer requirements into the production process of meat products. *Carpathian Journal of Food Science and Technology*, 12, 167-180.

## **2019**

37. Alizadeh N, **Husseinzadeh Kashan A** (2019). Enhanced grouping league championship and optics inspired optimization algorithms for scheduling a batch processing machine with job conflicts and non-identical job sizes. *Applied Soft Computing*, 83, 105657.
38. Ostadi B, Motamedi O, **Husseinzadeh Kashan A** (2019). An intelligent model for predicting the day-ahead deregulated market clearing price: A hybrid NN-PSO-GA approach. *Scientia Iranica*, 26, 3846-3856.
39. Jalili S, **Husseinzadeh Kashan A** (2019). An optics inspired optimization method for optimal design of truss structures. *Structural Design of Tall and Special Buildings*, 28, 1-23, e1598.
40. Ghadiri Nejad M, **Husseinzadeh Kashan A** (2019). An Effective Grouping Evolution Strategy algorithm enhanced with Heuristic Methods for Assembly Line Balancing Problem. *Journal of Advanced Manufacturing Systems*, 18, 487-509.
41. Nakhjirkan S, Mokhatab Rafiei F, **Husseinzadeh Kashan A** (2019). Developing an integrated decision making model in supply chain under demand uncertainty using genetic algorithm and network data envelopment analysis. *International Journal of Mathematics in Operational Research*, 14, 53-81.
42. Badrloo S, **Husseinzadeh Kashan A** (2019). Combinatorial Optimization of Permutation-Based Quadratic Assignment Problem Using Optics Inspired Optimization. *Journal of Applied Research on Industrial Engineering*, 6, 314-332.
43. Seyfi Sariqaya M, Chaharsooghi SKH, **Husseinzadeh Kashan A**, Rahimnezhadd F (2019). Multi-mode Capital-Constrained Project Payment Scheduling Problem with Discounted Cash

Flows. *International Journal of Industrial Engineering & Management Science*, 6, Issue 2, (2019) 17-36.

## 2018

44. Alimoradi M.R, **Husseinzadeh Kashan A** (2018). A League Championship Algorithm Equipped with Network Structure and Backward Q-learning for Extracting Stock Trading Rules. *Applied Soft Computing*, 68, 478-493.
45. **Husseinzadeh Kashan A**, Keshmiry M, Heidary Dahooie J, Abbasi-Pooya A (2018). A simple yet effective grouping evolutionary strategy (GES) algorithm for scheduling parallel machines. *Neural Computing and Applications*, 30, 1925–1938.
46. Balavand A, **Husseinzadeh Kashan A**, Saghaie A (2018). Automatic clustering based on Crow Search Algorithm-Kmeans (CSA-Kmeans) and Data Envelopment Analysis (DEA). *International Journal of Computational Intelligence Systems*, 11, 1322 - 1337.
47. Ghadiri Nejad M, **Husseinzadeh Kashan A**, Shavarani SM (2018). A Novel Competitive Hybrid Approach Based on Grouping Evolution Strategy Algorithm for Solving U-shaped Assembly Line Balancing Problems, *Production Engineering*, 12, 555–566.
48. Sadeghi Rad R, Nahavandi N, **Husseinzadeh Kashan A**, Zegordi S.H (2018). An integrated closed-loop supply chain configuration model and supplier selection based on offered discount policies. *International Journal of Engineering*, 31, 440-449.
49. **Husseinzadeh Kashan A**, Jalili S, Karimiyan S (2018). Optimum structural design with discrete variables using league championship algorithm. *Civil Engineering Infrastructure Journal*, 51, 253-275.
50. Jalili S, **Husseinzadeh Kashan A** (2018). Optimum discrete design of steel tower structures using optics inspired optimization method. *Structural Design of Tall and Special Buildings*, 27, e1466.

## 2017

51. Abbasi-Pooya, **Husseinzadeh Kashan A** (2017). New Mathematical Models and a Hybrid Grouping Evolution Strategy Algorithm for Optimal Helicopter Routing and Crew Pickup and Delivery. *Computers & Industrial Engineering*, 112, 35-56.
52. Karimiyan S, Moghadam AS, **Husseinzadeh Kashan A**, Karimiyan M (2017). Evaluation of collapse distribution in three-story RC moment-resisting asymmetric buildings due to earthquake loads. *International Journal of Civil Engineering*, 15, 809–825.
53. Jalili S, **Husseinzadeh Kashan A**, Hosseinzadeh Y (2017). League championship algorithms for optimum design of pin-jointed structures. *Journal of Computing in Civil Engineering*, 31, 1-17.

## 2015

54. Karimiyan S, Moghadam AS, **Husseinzadeh Kashan A**, Karimiyan M (2015). Progressive collapse evaluation of RC symmetric and asymmetric mid-rise and tall buildings under earthquake loads. *International Journal of Civil Engineering*, 13, 30-44.
55. **Husseinzadeh Kashan A** (2015). An Effective Algorithm for Constrained Optimization Based on Optics Inspired Optimization (OIO). *Computer-Aided Design*, 63, 52-71.
56. **Husseinzadeh Kashan A**, Akbari A, Ostadi B (2015). Grouping evolution strategies: an effective approach for grouping problems. *Applied Mathematical Modelling*, 39, 2703-2720.



57. **Husseinzadeh Kashan A** (2015). A New Metaheuristic for Optimization: Optics Inspired Optimization (OIO). *Computers & Operations Research*, 55, 99–125.
58. Farzam Rad M, Sajjadi SM, **Husseinzadeh Kashan A** (2015). Determination of optimal production rate in stochastic manufacturing systems by simulation optimization approach. *International Journal of Industrial and System Engineering*, 20, 306-322.

### 2014

59. Karimiyan S, **Husseinzadeh Kashan A**, Karimiyan M (2014). Progressive collapse vulnerability in 6-Story RC symmetric and asymmetric buildings under earthquake loads. *Earthquakes and Structures*, 6, 473-494.
60. **Husseinzadeh Kashan A**, Karimi B, Noktehdan A (2014). A novel discrete particle swarm optimization algorithm for the manufacturing cell formation problem. *International Journal of Advanced Manufacturing Technology*, 73, 1543–1556.
61. **Husseinzadeh Kashan A** (2014). League Championship Algorithm (LCA): An algorithm for global optimization inspired by sport championships. *Applied Soft Computing*, 16, 171-200.
62. Eslami S, Sajjadi SM, **Husseinzadeh Kashan A** (2014). Selecting a preventive maintenance scheduling method by using simulation and multicriteria decision making. *International Journal of Logistics Systems and Management*, 18, 250-269.

### 2013

63. Karimiyan S, Moghadam AS, Karimiyan M, **Husseinzadeh Kashan A** (2013) Seismic collapse propagation in 6-story RC regular and irregular buildings, *Earthquakes and Structures*, 753-779.
64. Husseinzadeh Kashan M, **Husseinzadeh Kashan A**, Nahavandi N (2013). A novel differential evolution algorithm for binary optimization. *Computational Optimization and Applications*, 55, 481-513.
65. **Husseinzadeh Kashan A**, Husseinzadeh Kashan M, Karimiyan S (2013). A particle swarm optimizer for grouping problems. *Information Sciences*, 252, 81-95.
66. **Husseinzadeh Kashan A**, Rezaee B, Karimiyan S (2013). An efficient approach for unsupervised fuzzy clustering based on grouping evolution strategies. *Pattern Recognition*, 46, 1240-1254.

### 2012

67. Husseinzadeh Kashan M, Nahavandi N, **Husseinzadeh Kashan A** (2012). DisABC: A new artificial bee colony algorithm for binary optimization. *Applied Soft Computing*, 12, 342-352.

### 2011

68. **Husseinzadeh Kashan A** (2011). An efficient algorithm for constrained global optimization and application to mechanical engineering design: league championship algorithm (LCA). *Computer-Aided Design*, 43, 1769-1792.

### 2010

69. Zarei M, Mansour S, **Husseinzadeh Kashan A**, Behrooz Karimi (2010). Designing a reverse logistics network for end-of-Life vehicles recovery. *Mathematical Problems in Engineering*, Volume 2010, Article ID 649028, doi:10.1155/2010/649028.

70. **Husseinzadeh Kashan A**, Karimi B, Jolai F (2010). An effective hybrid multi-objective genetic algorithm for bi-criteria scheduling on a single batch processing machine with non-identical job sizes. *Engineering Applications of Artificial Intelligence*, 23, 911-922.
71. Rafiee Parsa N, Karimi B, **Husseinzadeh Kashan A** (2010). A branch and price algorithm to minimize makespan on a single batch processing machine with non-identical job sizes. *Computers & Operations Research*, 37, 1720-1730.
72. Naimi Sadigh A, Mozafari M, **Husseinzadeh Kashan A** (2010). A mixed integer linear program and tabu search approach for the complementary edge covering problem. *Advances in Engineering Software*, 41, 762-768.
73. Noktehdan A, Karimi B, **Husseinzadeh Kashan A** (2010). A differential evolution algorithm for the manufacturing cell formation problem using group based operators. *Expert Systems with Applications*, 37, 4822-4829.

### 2009

74. **Husseinzadeh Kashan A**, Karimi B, Fatemi Ghomi S.M.T (2009). A note on minimizing makespan on a single batch processing machine with non-identical job sizes. *Theoretical Computer Science*, 410, 2754-2758.
75. **Husseinzadeh Kashan A**, Karimi B (2009). A discrete particle swarm optimization algorithm for scheduling parallel machines. *Computers & Industrial Engineering*, 56, 216-223.
76. **Husseinzadeh Kashan A**, Karimi B (2009). An improved mixed integer linear formulation and several lower bounds for minimizing makespan on a flowshop with batch processing machines. *International Journal of Advanced manufacturing Technology*, 40, 582-594.

### 2008

77. **Husseinzadeh Kashan A**, Karimi B (2008). Scheduling a single batch-processing machine with arbitrary job sizes and incompatible job families: an ant colony framework. *Journal of the Operational Research Society*, 59, 1269-1280.
78. **Husseinzadeh Kashan A**, Karimi B, Jenabi M (2008). A hybrid genetic heuristic for scheduling parallel batching machines with arbitrary job sizes. *Computers & Operations Research*, 35, 1084-1098.

### 2006

79. **Husseinzadeh Kashan A**, Karimi B, Jolai F (2006). Effective hybrid genetic algorithm for minimizing makespan on a single-batch-processing machine with non-identical job sizes. *International Journal of Production Research*, 44, 2337-2360.
80. Fazel Zarandi MH, Turksen IB, **Husseinzadeh Kashan A** (2006). Fuzzy control charts for variable and attribute quality characteristics. *Iranian Journal of Fuzzy Systems*, 3, 31-44.

## Journal papers (in Persian)

### Accepted papers (in Persian) for publication

1. Ghasemi N, **Husseinzadeh Kashan A**, Najafi SE (2022). Optimizing the Partner Selection Problem and Scheduling the Collaborative Transportation. *Journal of New Researches in Mathematics*.

2. **Husseinzadeh Kashan A**, Afkhami S, Maroofkhani P (2021). Multi-objective Optimization of the U-shaped Assembly Line Balancing and Worker Assignment Considering Setup-Times and Workers' Skill. *Journal of Decisions and Operations Research*.

### **Published journal papers (in Persian)**

3. Ebrahimi M, **Husseinzadeh Kashan A**, Sepehri M (2022). Mathematical modeling of resource allocation in critical conditions with the aim of increasing the level of resilience of operational processes: the case study of the textile industry. *Journal of Quality Engineering and Management*, 11, 393-412.
4. Hassan Beigi L, Nakhai Kamalabadi I, **Husseinzadeh Kashan A**, Beigi S (2022). Bi-Objective Model for Determining Optimal Machining Time in a Single Machine Robotic Cell by Considering the Stochastic Lifespan of the Tool. *Journal of Decisions and Operations Research*, 6, 518-535.
5. Ahrari S, Najafi A, **Huseinzade Kashan A** (2021). Predicting the deterioration of the forest road network by employing the Markov chain (Case study: Forest road in the western part of Haraz). *Iranian Journal of Forest*, 13, 73-85.
6. Ostadi B, Ebrahimi M, **Husseinzadeh Kashan A**, Sepehri M (2021). Presenting a model for the optimal allocation of human resources to operational processes using the Markowitz model: A case study in urology unit at a kidney center. *Journal of Quality Engineering and Management*, 11, 77-87.
7. Khorsi M, Charsooghi SK, **Husseinzadeh Kashan A**, Bozorgi A (2021). A dynamic robust optimization model for the routing-scheduling problem in humanitarian logistics and its solution via grouping metaheuristic algorithm (case study: Tehran earthquake). *Quarterly Journal of Transportation Engineering*, 12, 833-853.
8. **Husseinzadeh Kashan A**, Garoosi F (2020). A hybrid binary ant colony algorithm and support vector machine (BACO-SVM) model for feature selection and classification of bank customers with Case Study. *Journal of Financial Management Strategy*, 29, 71-92.
9. Rezaee S, Sajjadi M, **Husseinzadeh Kashan A** (2020). Providing Heterogeneous Vehicle Routing Model Considering the Prioritized of the Customer Time Window. *Quarterly Journal of Transportation Engineering*, 11, 913-936.
10. Dehghani-Eshraty M, Albadvi A, Sepehri MM, **Husseinzadeh Kashan A** (2020). Startup valuation in the first round of venture financing by considering real options before and after commercialization. *Innovation Management Journal*, 9, 151-175.
11. Hashemi NS, **Husseinzadeh Kashan A** (2019). A branch and bound algorithm equipped with tighter lower bound values for makespan minimization on a batch processing machine. *Production and Operations Management*, 10, 181-201.
12. Balavand A, **Husseinzadeh Kashan A**, Saghaei A (2019). Combination of support vector machine and pretrained convolutional neural network models to classify brain tumors in MRI images. *Modern Researches in Decision Making*, 4, 55-77.
13. Teimoori M, Sheikh Mohammadi M, **Husseinzadeh Kashan A**, Shojaei A.A (2019). Developing a mathematical model for locating license plate reading cameras on Iran's intercity roads to cover the origin-destination routes of vehicle fleets. *Quarterly Journal of Transportation Engineering*, 11, 97-118.

14. Momayezi F, Chaharsooghi, S.K, Sepehri M.M, **Hussein-zadeh Kashan A** (2019). Single allocation hub location problem under hub failure possibility: Modeling and a solution algorithm. *Sharif Journal of Industrial Engineering and Management*, 35, 119-133.
15. Alimoradi M.R, **Hussein-zadeh Kashan A** (2019). Extracting Stock Multi-order Rules via Employing a Network Structure and Backward Q-Learning. *Journal of Investment Knowledge*, 8, 115-138.
16. **Hussein-zadeh Kashan A**, Rahmani A, Ostadi B (2018). Revenue Management under Variable Resource Capacity Requirements and Importance Factor for Patient Classes in Hospitals. *Journal of Modeling in Engineering*. 16, 54, 257-265.
17. Motamedi O, Ostadi B, **Hussein-zadeh Kashan A** (2018). Prediction Model for Iran's Electricity Market Clearing Prices: Improved SVM Algorithm. *Quarterly Journal of Energy Policy and Planning Research*, 4 (2), 7-34.
18. Motamedi O, Ostadi B, **Hussein-zadeh Kashan A**, Amin Naseri M. R (2018). Estimated Cost Function of Energy Generation in Ardebil Combined Cycle Power Plant by Artificial Intelligence Algorithms. *Iranian Energy Economics*, 27, 135-157.
19. Motamedi O, Ostadi B, **Hussein-zadeh Kashan A**, Amin Naseri M. R (2018). Market clearing price prediction using improved neural network with genetic algorithm in Iranian day ahead market for competitiveness clustering's, *Iranian Electric Industry Journal of Quality and Productivity*, 7, 84-92.
20. Aghdaee E, **Hussein-zadeh Kashan A** (2018). An approach based on League Championship Algorithm (LCA) and Kalman Filter for multi-objective project scheduling problem and predicting the time progress. *Journal of Decisions and Operations Research*, 3, 99-113
21. Ostadi B, Khazayi S, **Hussein-zadeh Kashan A** (2018). Operational Risk Assessment Using Bayesian Inference with Regard to the Composition of Data Sources and the Assumption of Dependence between Experts and Internal Loss Data. *Journal of Financial Management Strategy*, 20, 53-72.
22. Kahe Z, Baradaran Kazemzadeh R, Masehian E, **Hussein-zadeh Kashan A** (2018). Developing a bi-level programming model for procurement management and a hybrid algorithm for its solution. *Sharif Journal of Industrial Engineering and Management*, 33, 21-33.
23. Ebrahimi Fard S, Nahavandi N, **Hussein-zadeh Kashan A** (2017). 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, 375-387C
24. Asadi S, Albadavi A, **Hussein-zadeh Kashan A** (2017). Determining Capital Requirement for Market Risk in the Solvency Assessment Model of Insurance Companies . *Iranian Journal of Insurance Research*, 6, 83-102.
25. Mostafavi S. M, Albadvi A, **Hussein-zadeh Kashan A** (2017). Supply Chain Configuration Design (Case study in a production company). *Sharif Journal of Industrial Engineering and Management*, 32, 15-25.
26. Seyfi Sarigaye M, Chaharsooghi SK, **Hussein-zadeh Kashan A** (2017). Developing a model-based DSS for integrating project performance evaluation and risk management (construction investment project). *Sharif Journal of Industrial Engineering and Management*, 33, 129-139.
27. Mafakheri Z, Skeikhmohammady M, **Hussein-zadeh Kashan A** (2017). Employing Multi-Objective Simulated Annealing Algorithm to Solve the Developed Model for Determining the

Size of Freight Cars in Rail Transportation Industry. *Quarterly Journal of Transportation Engineering*, 8, 501-515.

28. Kahe Z, **Husseinzadeh Kashan A** (2017). Developing a probabilistic two-stage model for hierarchical healthcare facility location by considering the service rate (A case study of Tehran heart center). *Journal of Hospital*, 15, 4, 21-38.
29. Vardi Chari M, **Husseinzadeh Kashan A** (2016). Air Cargo Revenue Management Under Variable Operating Conditions of Capacity, Considering the Possibility of OverBooking. *Journal of Industrial Engineering*, 50, 483-495.
30. Eskandari H, Anvary RAA, **Husseinzadeh kashan A** (2016). Risk hedging by use of hybrid future contracts indices (Case: Iran financial market). *Financial Engineering and Securities Management (Portfolio Management)*, 7, 55-72.
31. Mafakheri Z, **Husseinzadeh Kashan A**, Skeikhmohammady M (2016). A Dynamic Multi-objective Rail-car Fleet Sizing Problem Solved by Non-dominated Sorting Genetic Algorithm-II. *Journal of Industrial engineering*, 50, 95-107
32. Eskandari H, Anvary RAA, **Husseinzadeh kashan A** (2016). Optimum exchange rate cross hedging ratio using gold future contracts in Iran financial market. *Financial Engineering and Securities Management (Portfolio Management)*, 6, 21-40.
33. **Husseinzadeh Kashan A**, Karimi B (2012). New lower bounds for the optimal makespan on a single batch processing machine. *Amirkabir Journal of Mechanical Engineering*, 43, 2, 75-84.

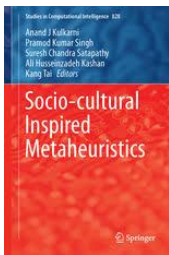
### **Refereed conference papers**

1. **Husseinzadeh Kashan A**, Abbasi-Poya A, Karimiyan S (2019). A Rig-Based Formulation and a League Championship Algorithm for Helicopter Routing in Offshore Transportation. *Second International Conference on Data Engineering and Communication Technology (ICDECT)*, Pune, India, 23-38.
2. Rezvani N, Zegordi SH, **Husseinzadeh Kashan A** (2015). Flexible job shop scheduling problem with preventive maintenance tasks and work in process constraint. *First International Conference on Industrial and Systems Engineering (ICISE 2015)*, Tehran, Iran.
3. Sajadi SM, **Husseinzadeh Kashan A**, Khaledan S (2014). A New approach for permutation flow-shop scheduling problem using league championship algorithm. *The Joint International Symposium on CIE44 and IMSS'14*, Istanbul, Turkey.
4. Ghadirnejad M, **Husseinzadeh Kashan A**, Rismanchian F (2013). A new competitive method for solving assembly line balancing problem. *1st International Conference on New Directions in Business, Management, Finance and Economics*, Famagusta, Cyprus.
5. **Husseinzadeh Kashan A**, Karimiyan S, Karimiyan M, Husseinzadeh Kashan H (2012). A modified League Championship Algorithm for numerical function optimization via artificial modeling of the "between two halves analysis". *The 6th International Conference on Soft Computing and Intelligent Systems and The 13th International Symposium on Advanced Intelligent Systems*, 1944-1949. Kube, Jappan.

6. S. H Yakhchali, **Husseinzadeh Kashan A** (2011). On possible and necessary optimality of schedules in the single machine scheduling problem with imprecise processing times and due dates. *WCE2011, World Congress on Engineering*, 1-5, London, UK.
7. **Husseinzadeh Kashan A**, Karimi B (2010). A new algorithm for constrained optimization inspired by the sport league championships. *WCCI 2010 IEEE World Congress on Computational Intelligence*, 487-494, Barcelona, Spain.
8. **Husseinzadeh Kashan A** (2009). League Championship Algorithm: a new algorithm for numerical function optimization. *SoCPaR 2009 IEEE International Conference of Soft Computing and Pattern Recognition*, 43-48, Kuala Lumpur, Malaysia.
9. **Husseinzadeh Kashan A**, Jenabi M, Husseinzadeh Kashan M (2009). A new solution approach for grouping problems based on evolution strategies. *SoCPaR 2009 IEEE International Conference of Soft Computing and Pattern Recognition*, 88-93, Kuala Lumpur, Malaysia.
10. **Husseinzadeh Kashan A**, Karimi B, Jolai F (2006). Bi-criteria scheduling on a batching machine with non-identical job sizes. *INCOM'2006 12<sup>th</sup> FAC Symposium on Information Control Problems in Manufacturing*, 727-732, Saint-Étienne, France.
11. **Husseinzadeh Kashan A**, Karimi B, Jolai F (2006). Minimizing makespan on a single batch processing machine with non-identical job sizes: a hybrid genetic approach. *EvoCOP 2006 Evolutionary Computation in Combinatorial Optimization: 6th European Conference*, Springer-Verlag, Lecture Notes in Computer Science, 135-146, Budapest, Hungary.

## Edited volumes, chapters, translations and handouts

### Edited books/proceedings



Kulkarni AJ, Singh PK, Satapathy SC, **Husseinzadeh Kashan A**, Tai K (Editors) (2019). *Socio-cultural Inspired Metaheuristics*. Studies in Computational Intelligence, Springer, Singapore (DOI: 10.1007/978-981-13-6569-0), (ISBN: 978-981-13-6569-0).



Kulkarni AJ, Satapathy SC, Tai K, **Husseinzadeh Kashan A**, (Editors) (2019). *Proceedings of the 2nd International Conference on Data Engineering and Communication Technology*. Studies in Computational Intelligence, Springer, Singapore (DOI: 10.1007/978-981-13-1610-4), (ISBN: 978-981-13-1610-4).

### Book Chapters

1. **Husseinzadeh Kashan A**, Karimiyan N, Khodaei Anaraki S, Farahani M (2022). Multi-objective optimization of ventilated brake disc based on finite element simulation. In Kulkarni AJ, Ed. *Optimization Methods for Product and System Design*, Springer (To be published).

2. **Husseinzadeh Kashan A**, Balavand A, Karimiyan S, Fariba Soleimani F (2021). The League Championship Algorithm: Applications and Extensions. In Kulkarni AJ and Siarry P, Eds. Handbook of AI-based Metaheuristics, Springer.
3. Balavand A, **Husseinzadeh Kashan A** (2020). A Package Including Pre-processing, Feature Extraction, Feature Reduction, and Classification for MRI Classification. Optimization in Machine Learning and Applications. In Kulkarni AJ and Satapathy SC, Eds. Optimization in Machine Learning and Applications, Algorithms for Intelligent Systems, Springer.
4. **Husseinzadeh Kashan A**, Jalili S, Karimiyan S (2019). Premier League Championship Algorithm: a multi-population-based algorithm and its application on structural design optimization. In Kulkarni AJ, Singh PK, Satapathy SC, Husseinzadeh Kashan A, Tang K, Eds. Socio Cultural Inspired Metaheuristics, Studies in Computational Intelligence, Springer.

### Translated books



Muattar Hussein SM, **Husseinzadeh Kashan A** (2014). Operations Strategy. Amirkabir University of Technology Press (A Persian translation of Slack N, Lewis M (2011). Operations Strategy, Financial Times: Prentice Hall.)



Muattar Hussein SM, **Husseinzadeh Kashan A** (2009). Operations Strategy. Amirkabir University of Technology Press (A Persian translation of Slack N, Lewis M (2001). Operations Strategy, Financial Times: Prentice Hall.)

✱ The book has been deserved to appreciate in Iranian 12th Book of the Season Award together with 38 books, among 5887 books published during the season.

### Handouts

1. **Husseinzadeh Kashan** (2017). Principles of supply chain management (electronic document). Faculty of Industrial and Systems Engineering, Tarbiat Modares University (in Persian).
2. **Husseinzadeh Kashan** (2015). Linear Programming (electronic document). Faculty of Industrial and Systems Engineering, Tarbiat Modares University (in Persian).

### FUNDED RESEARCH/INDUSTRIAL/ORGANIZATIONAL PROJECTS

1. **Husseinzadeh Kashan A** (2022). Performance assessment of the airport city logistics. Role: Principal Investigator.
2. **Husseinzadeh Kashan A** (2021). Developing an intelligent warehouse management system and mechanized warehouse document system. Role: Principal Investigator.
3. **Husseinzadeh Kashan A** (2018). Optimization of the forward-backward part-pallet distribution network of an automotive supply chain. Role: Principal Investigator.
4. **Husseinzadeh Kashan A** (2021). Identification of the export advantages of the Alborz province and the target markets. Role: Principal Investigator.
5. **Husseinzadeh Kashan A** (2019). A study on the knowledge management system for the Plan & Budget Organization of the Alborz province. Role: Principal Investigator.
6. **Husseinzadeh Kashan A** (2017). Designing an integrated optimal logistics network consisting the milk-run distribution system. Role: Principal Investigator.

7. **Husseinzadeh Kashan A** (2020). Identification, classification and study of the target markets for exporting date palm and codification of the entrance strategies into the export markets. Role: Principal Investigator.
8. **Husseinzadeh Kashan A** (2017). Designing a comparative system to evaluate the effectiveness of technical, credit and renovation aids dedicated to SMEs. Role: Principal Investigator.
9. **Husseinzadeh Kashan A**, Akbari A (2015). Providing an effective solution method for optimization of the grouping type problems and its application in solving the bin packing problem. Financially supported by Azad University, South Branch of Tehran. Role: Co-Investigator.
10. Karimi B, **Husseinzadeh Kashan A**, Rafiee Parsa N (2009). Mathematical models and solution methods for the operations scheduling. Financially supported by Iran National Science Foundation. Role: Team member.
11. Member of the project entitled “Strategic planning and codification” at Tarbiat Modares University”, 2016.

## RESEARCH STUDENTS

### PhD students

- 5 Completed
- 8 Ongoing

### MSc students

- 60 Completed (approximate)
- 12 Ongoing

### Supervised PhD Thesis

1. Morteza Farhadi (2022). A new integrated mathematical model and a solution for optimization the multi period order picking system with constraint of limited access to order pickers of different types. Azad University, Ghazvin Branch.
2. Masoum Najafian (2022). Mathematical models and solution methods for Milkran logistics system in automotive supply chain taking into account the loading considerations. Azad University, South Tehran Branch.
3. Afsahi M (2019). Integrating pricing, warranty optimization and spare part inventory management for under and out of warranty products. Faculty of Industrial and Systems Engineering, Tarbiat Modares University.
4. Ranjbaran F (2019). A MIP model and a solution method for the milk-run logistics system under forward-backward pallet distribution. Department of Industrial Engineering, Azad University, Ghazvin Branch.
5. Balavand A (2018). A new metaheuristic algorithm and an automatic clustering method based on data envelopment analysis for classification of brain tumors in MRI images. Department of Industrial Engineering, Azad University, Science and Research Branch.

## REVIEW SERVICES

- Total number of reviews in peer reviewed journals: 65 reviews
- Total number of reviews in peer reviewed conferences: 53 reviews



- Total number of book proposal reviews: 5 reviews (one for Springer International Publishing and four for domestic publishers).

### **List of peer reviewed journals**

- IEEE Transactions on Evolutionary Computations (Impact Factor: 16.497)
- Swarm and Evolutionary Computations (Impact Factor: 10.267)
- Chaos, Solitons & Fractals (Impact Factor: 9.922)
- Omega, the International Journal of Management Science (Impact Factor: 8.673)
- Expert Systems with Applications (Impact Factor: 8.665)
- International Journal of Production Research (Impact Factor: 8.568)
- Information Sciences (Impact Factor: 8.233)
- Applied Soft Computing (Impact Factor: 8.263)
- Advanced Engineering Informatics (Impact Factor: 7.862)
- Complex and Intelligent Systems (Impact Factor: 6.7)
- Computers & Operations Research (Impact Factor: 5.159)
- International Journal of Disaster Risk Reduction (Impact Factor: 4.842)
- Ecological Informatics (Impact Factor: 4.498)
- International Journal of Computer Integrated Manufacturing (Impact Factor: 4.42)
- Advances in Engineering Software (Impact Factor: 4.255)
- Soft Computing (Impact Factor: 3.732)
- Computer Aided Design (Impact Factor: 3.652)
- Economic Research (Impact Factor: 3.08)
- Journal of Computational and Applied Mathematics (Impact Factor: 2.872)
- Rairo Operations Research (Impact Factor: 2.526)
- Engineering optimization (Impact Factor: 2.5)
- Journal of Scheduling (Impact Factor: 2.13)
- Optimal control, Applications and Methods (Impact Factor: 1.955)
- Scientia Iranica (Impact Factor: 1.416)
- SADHANA-academy proceedings in engineering sciences (Impact Factor: 1.214)
- SN Applied Sciences
- Decision Analytics
- International Journal of Industrial Engineering & Production Research
- Advances in Mathematical Finance and Applications
- Journal of Quality Engineering and Production Optimization
- Journal of AI and Data mining
- AUT Journal of Modeling and Simulation

- Journal of Applied Research on Industrial Engineering
- Sharif Journal of Industrial Engineering and Management (In Persian)
- Human and Environment (In Persian)
- Journal of Decisions and Operations Research (In Persian)
- Industrial Engineering Researches in Production Research (In Persian)

### **List of peer reviewed book proposals**

- Constraint Handling in Metaheuristics and Applications, Springer, 2020
- Modeling and solution methods in discrete optimization (with examples of scheduling problems), Semnan University Press, Iran, 2021.
- Selected Topics in Supply Chain Management, Amirkabir University of Technology Press, Iran, 2019.
- Basic concepts and techniques in operations management, University Publishing Center, Iran, 2016.
- Ant colony Optimization and its applications in healthcare, Tarbiat Modares University Press, Iran, 2018.

### **Peer reviewed conferences**

- 4 papers for 17th International Conference on Industrial Engineering (IIIEC 2021), Mashhad, Iran.
  - 2 papers for 1st National Conference on Optimization and New Solution Methods 2021, Hamedan, Iran.
  - 2 papers for 14th International Conference of Iranian Operations Research Society (ICORS 2021), Mashhad, Iran.
  - 5 papers for International Conference of Industrial and Systems Engineering (ICISE 2015), Mashhad, Iran.
  - 40 papers for 12th International Conference on Industrial Engineering (IIEC 2015), Tehran, Iran.
- As a member of the Expertise Group of Industrial Engineering and Technology management of Khwarizmi Award (a prestigious international award), I served as a reviewer of nominee plans from 2010 to 2013.
- External referee of more than 40 domestic Ph.D dissertations.
- External referee of more than 150 domestic MSc thesis.
- External referee of one foreign Ph.D dissertation.

## **COURSES TAUGHT AND WORKSHOPS**

### **Courses taught**

- Combinatorial Optimization and Metaheuristic Algorithms (graduate)
- Logistics and Supply Chain Management (graduate)
- Optimization Models in Transportation (graduate)

- Stochastic Processes (graduate)
- Production Planning and Scheduling (under graduate)
- Discrete-Event System Simulation (graduate)
- Revenue Management and Pricing (graduate)
- Integer Programming (graduate)
- Nonlinear Programming (graduate)
- Linear Programming (under graduate)
- Mathematical Programming (graduate)
- Queuing Theory (graduate)
- Probability Theory (under graduate)
- Inventory Planning and Control (under graduate)
- General Mathematics (under graduate)
- English for IE students (under graduate)

<b>APPOINTMENTS IN/FORMING ACADEMIC/DOMESTIC/UNIVERSITY EVENTS</b>
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- Member of the editorial board of the *Journal of Applied Research on Industrial Engineering* (Since 2019).
- Member of the editorial board of the *Journal of Decisions and Operations Research* (Since 2018).
- Technical Program Committee Member of the 2nd International Conference on Intelligent Systems and Applications (ICISA), Institute of Artificial Intelligence, MIT World Peace University, Pune, MH, India, May 3-5, 2023.
- Technical Program Committee Member of the 1st International Conference on Intelligent Systems and Applications (ICISA), Institute of Artificial Intelligence, MIT World Peace University, Pune, MH, India, May 4-6, 2022.
- Expert talk on ‘Sports Inspired Metaheuristic Algorithms’ in the five days Faculty Development Program (FDP) entitled ‘AI for ALL’ organized by the Institute of Artificial Intelligence of MIT World Peace University, Pune, India from November 22 to 26, 2021.
- Expert session: in the One-Week Online Short Term Training Program (STTP) on “Emerging Optimization Techniques for Engineering Applications” organized by Department of Mechanical Engineering, Rajarambapu Institute of Technology, during 27th September to 1st October 2021.
- Organizing Chair and Session Chair of the 2nd International Conference on Data Engineering and Communication Technology (ICDECT) Symbiosis Institute of Technology, Symbiosis International University, Pune, India, December 15 & 16, 2017.
- Keynote Speech: “Optimization in logistics operations with case studies”. The 2nd International Conference on Data Engineering and Communication Technology,

(ICDECT) Symbiosis Institute of Technology, Symbiosis International University, Pune, India, December 15 & 16, 2017.

- Scientific Committee Member of 5<sup>th</sup> Iran Industry International Conference (IAIIC), 2018, Tehran, Iran.
- Scientific Committee and Panel member of the 1st National Conference on Optimization and New Solution Methods 2021, Hamedan, Iran.
- Organizing Committee Member of 11<sup>th</sup> International Conference on Industrial Engineering (IIEC 2015), Tehran, Iran.
- Scientific Committee Member of 11<sup>th</sup> International Conference on Industrial Engineering (IIEC 2015), Tehran, Iran.
- Member of the Expertise Group of Industrial Engineering and Technology management, Young Khwarizmi Award (2010 to 2013).

#### **COURSES TRAINED**

- Quality Management Systems Auditor/Lead Auditor Training Course (Based on ISO 9001:2008). Nigel Bauer & Associates in conjunction with TUV Academy, 11-15 September 2011, Tehran, Iran.
- Designing and Planning Training. TUV Academy, Dec 6-7, 2010, Tehran, Iran.
- Evaluating Training Outcome. TUV Academy, Jan 1-2, 2011, Tehran, Iran.

#### **PROGRAMMING SKILLS**

- Matlab programming (professional knowledge)
- GAMS optimization software (professional knowledge)
- Arena Simulation Software (professional knowledge)
- Python Programming (professional knowledge)