



**Amirkabir University of Technology**  
**(Tehran Polytechnic)**



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**BEHROOZ KARIMI**

**Professor**

**Department of Industrial Engineering &  
Management Systems  
System & Productivity Management**

**Scientific & Industrial Experience**

#	Responsibilities Titles	Name of Organization	Starting Date	Termination Date
1	Dean of School of Management and Industrial Engineering	Amirkabir University of Technology (Tehran Polytechnic)	2018	---
2	Head of Department of Management, Science and Technology	Amirkabir University of Technology (Tehran Polytechnic)	2017	2018
3	Head of Department of Industrial Engineering	Amirkabir University of Technology (Tehran Polytechnic)	2013	2017
4	Head of Project Management Office	Amirkabir University of Technology (Tehran Polytechnic)	2012	2014
5	Head of International Campus	Amirkabir University of Technology (Tehran Polytechnic)	2009	2012
6	Head of Department of Industrial Engineering	Amirkabir University of Technology (Tehran Polytechnic)	2007	2009
7	Member of Managerial Board of Iran Logistics Society	Iran Logistics Society	2007	2013
8	Member of Expert Board of Industrial Engineering	Iran Ministry of Science, Research and Technology	2007	2018
9	Research Director of Department of Industrial Engineering	Amirkabir University of Technology (Tehran Polytechnic)	2006	2007

10 Educational Director of Department of Industrial Engineering	Amirkabir University of Technology (Tehran Polytechnic)	2003	2005
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### Research Interests

#	Title	Start date
1	Supply Chain Management	
2	Mathematical Programming	
3	Simulation	

### Supervised MSc Theses

#	Thesis title	By	Date
1	Location-Allocation-Routing for emergency shelters based on GIS (case study: earthquake occurrence in the mosha fault)	Sepide Aghaie & Behrooz Karimi	April 2021
2	Optimization of inventory control of cord blood stem cells in public banks	Mahdi Haghbayan & Behrooz Karimi	April 2021
3	An integrated model for Berth, quay crane and container yard allocation in Shahid Rajaei port	Mohammadali Ebrahimijorjafki & Behrooz Karimi	February 2021
4	Recycling pricing and contract design of dual-channel closed-loop supply chain	Pouya Dehghanpour Amniyeh & Behrooz Karimi	July 2020
5	Developing a pricing model for innovative business in passenger transportation market	Sajed Khandani & Behrooz Karimi	February 2020
6	Production routing problem by considering time window, transshipment and demand uncertainty	Pedram Farghadani Chaharsooghi & Behrooz Karimi	January 2020
7	Development of a model for location, inventory and pollution routing problem (LIPRP) in a two echelon supply chain network	Sahar Jamali & Behrooz Karimi	October 2019
8	Multi-Commodity supply chain design with pricing policy under uncertainty in fast moving consumer goods (FMCG) environment with correlated demands	Mohammad Kalantari Khalilabad & Behrooz Karimi	May 2019
9	Designing a Crisis Logistic System for Tall Building of Tehran (Case Study of Plasco Building)	Mohammad Reza Baqeri Kazem Abad & Behrooz Karimi	February 2019
10	A facility location model for global closed - loop supply chain network design by taking sustainability factors	Najme Roghani Langarudi & Behrooz Karimi	October 2018
11	Locating Railway Stations in GIS Environment-by Using an Artificial Neural Network	Soode Vaezinejad & Behrooz Karimi	July 2018
12	A Pricing Model for Service Providers and Network Providers in Competitive Markets	Mehdi Mohamadi & Behrooz Karimi	July 2018

13	Joint dynamic production/pricing/advertising in a closed loop supply chain	Marzieh Nemati & Behrooz Karimi	February 2018
14	Designing a multi-echelon supply chain distribution network with pricing policy under uncertainty	Hadi Deymeh & Behrooz Karimi	February 2018
15	Dynamic supply chain network design for minimize losses after math of disaster	Mohammad Ali Rostami & Behrooz Karimi	January 2018
16	Supply chain modeling considering sustainable value	Mobina Amirian Ghiyasi & Behrooz Karimi	October 2017
17	combination of vehicle routing problem and dock door assignment problem	Younes Fathi & Behrooz Karimi	July 2017
18	Dynamic supply chain network design for minimize losses after math of disaster	Mohammad Ali Rostami & Behrooz Karimi	July 2017
19	A closed-loop supply chain model considering environmental factors and globalization trends	Mohammadamin Edalatpour & Behrooz Karimi	February 2017
20	A robust optimization model to capacitated hub location problem under uncertain conditions	Sina Tarighi & Behrooz Karimi	February 2017
21	performance evaluation of supply chain by using supply chain operation reference and analytical hierarchy process and topsis	Kazem Rahmaty & Behrooz Karimi	October 2016
22	developing a novel extracting customer behavior model to enhance marketing efficiency	Fahimeh Kheradmand & Behrooz Karimi	October 2015
23	developing an intelligent approach based on neural network models for demand forecasting in a multi-echelon supply chain	Mina Nezam Abadi & Behrooz Karimi	October 2015
24	Designing a transportation system for an industrial park	Abdolrasoul Radmanesh & Behrooz Karimi	September 2015
25	Development of a financial modeling for multi- echelon supply chain considering demand and pricing strategy	Mehran Poursoltani & Behrooz Karimi	December 2014
26	modeling and solving vehicle routing problem with cross dock and direct shipment in supply chain management	Maede Mokhtarinejad & Behrooz Karimi	October 2014
27	studding the bullwhip effect in reverse logistic considering warranty	Sepide Kordestani & Behrooz Karimi	October 2014
28	Hub location – routing problem considering fixed setup cost	Ehsan Rezaei Sadrabadi & Behrooz Karimi	June 2014
29	Coordinated 3- stage supply chain scheduling with multiple assembly centers	Shahab Afsharkohan & Behrooz Karimi	February 2014
30	A multi- objective stochastic model for a forward /reverse logistic network design considering direct shipment	Sina Salimi Amlashi & Behrooz Karimi	October 2013
31	Developing new model for locating Hub in distribution network of wheat export	Marziyeh Mahmoodinia & Behrooz Karimi	February 2013
32	Developing new model for locating cross- docks in Iran khodro supply chain network	Farzin Khaleghian & Behrooz Karimi	February 2013

33	Multi echelon inventory management using reinforcement learning	Zahra Saberi & Behrooz Karimi	November 2012
34	Developing a model for expanding public transportation using data mining approaches	Seyed Omid Hasanpour Jesri & Behrooz Karimi	October 2012
35	An inventory model for deteriorating items with uncertainty in demand and price	Majid Damercheli & Behrooz Karimi	March 2012
36	Development of abj- objective model solution method for production planning If multi level supply chain aiming to minimize the cost and maximize supply from high quality grade suppliers	Zohre Moattaarhosseni & Behrooz Karimi	January 2012
37	Multiple- part types, multistage cyclic hybrid flow shop scheduling problem with limited buffer and machine eligibility constraints	Seyedabolfazl Soltani & Behrooz Karimi	November 2011
38	Cross-Dock Location Modeling for ETKA Chain Stores Network	Heshmatallah Rezaallah & Behrooz Karimi	October 2011
39	Computer Simulation for KANABAN System in AIDCO PRESS CO	Maziar Gholamian Moghadam & Behrooz Karimi	May 2011
40	Mixed Intereger Programming Model and a Solution for Multi- floor Facility Layout Design using Flexible Bays	Forough Enayaty Ahangar & Behrooz Karimi	February 2011
41	A multi product distribution model for perishable products in the supply chain If a foodstuff distribution company	Ebrahim Mortaz & Behrooz Karimi	December 2010
42	A model for petroleum products supply- Demand Long term planning	Elnaz Fotoohi & Behrooz Karimi	December 2010
43	Designing a model for location routing problem with deliveries and selective pick ups	Rozhin Doroudi & Behrooz Karimi	November 2010
44	Developing a bankruptcy prediction model for specific industry s firms of Tehran Stock Exchange	Tayebeh Zanganeh & Behrooz Karimi	October 2010
45	Buyer- Supplier Multi- Product Model in a Two- Echelon Supply Chain with Cooperative Games	Ali Naimi-Sadigh & Behrooz Karimi	June 2010
46	Designing a model for Transportation Dynamic pricing in Multi- modal freight Network	Sajede Tafazoli & Behrooz Karimi	June 2010
47	Supply chain network design with intra competition	Nooshin Heidari & Behrooz Karimi	June 2010
48	Designing a model for pricing and advertising in a retailer – manufacturer supply chain	Sara Bastani & Behrooz Karimi	June 2010
49	Designing a model for configuration of one-way roads in city network Design with the concept of reserve capacity and user equilibrium	Zohreh Khooban & Behrooz Karimi	January 2010
50	Designing a Model for pricing in a freight Transportation Network with Collaboration Between the agents	Marzieh Mozafari & Behrooz Karimi	January 2010
51	Counteracting the bullwhip effect with decentralized negotiations	Mahdieh Sedghi & Behrooz Karimi	January 2010
52	A Buyer- seller relationship model with price dependent, where shortages are per	Hamed Fallahroshanghalb & Behrooz Karimi	January 2010

53	Configuration of one- way routes urban transportation networks in uncertainty conditions	Farzaneh Daneshzand & Behrooz Karimi	January 2010
54	Design of a Competitive Location Model for Retailers in supply Chains	Saeed Ghadimi & Behrooz Karimi	December 2009
55	The strategies evaluation of inventory control (VMI, CRP) in supply chain with analytical model	Ali Reza Ebrahimi Sadrabadi & Behrooz Karimi	July 2009
56	Development of evolutionary algorithms for grouping problems: applications on cell formation problem	Azadeh Noktehdan & Behrooz Karimi	January 2009
57	Effective solutions approaches for scheduling batch proessing machines	Neda Rafiee Parsa & Behrooz Karimi	December 2008
58	Developing solution methods for batch scheduling problem in supply chains	Zeinab Mohammadi & Behrooz Karimi	December 2008
59	Developing A Methodology for Competition Between Two Supply Chains with Game- Theoretic Approach	Mohammad Azari Khojasteh & Behrooz Karimi	September 2008
60	A METAHEURISTIC METHOD FOR REACTIVE JOB SHOP SCHEDULING WITH MACHINE BREAK-DOWNS AND STOCHASTIC PROCESS TIMES	Mahdi Morady Qohareh & Behrooz Karimi	February 2008
61	Multi Depot Location Routing Problem with Backhauls	Mahsa Oroojeni Mohamad Javad & Behrooz Karimi	December 2007
62	DESIGNING A BI-OBJECTIVE MODEL FOR LOCATION-ROUTING PROBLEM WITH CONSIDERING INVENTORY DECISIONS IN DISTRIBUTION NETWORK	Hossein Zolfagharinia & Behrooz Karimi	November 2007
63	GENERALIZATION OF THE GENERALIZED ASSIGNMENT PROBLEM	Nasim Seyedzadeh Sabounchi & Behrooz Karimi	November 2006
64	A DECISION MAKING MODEL FOR OUTSOURCING OF MAINTENANCE ACTIVITES IN AN IRANIAN MILITARY ORGANIZATION	Hadi Akrami & Behrooz Karimi	November 2006
65	DEVELOPING TECHNIQUES FOR MULTICRITERIA SCHEDULING MODELS WITH REJECTION BY META-HEURISTICS	Atefeh Moghaddam & Behrooz Karimi	November 2006
66	FEASIBILITY STUDY FOR VENDOR MANAGED INVENTORY IMPLEMENTATION IN SUPPLY CHAIN OF SHAHRVAND	Maryam Dehghan & Behrooz Karimi	October 2006

## Books

#	Title	Author(s)	Publisher country	publication date	version
<b>Portal Records</b>					
1	Logistics and supply chain excellence model	Behrooz Karimi, Mohsen Sheikh Sajadieh, [en-name N/A], Nazanin Foroozesh	Iran (Islamic Republic of)	November 2020	2
2	Production Planning and Inventory control (Vol. 1: Independent Demands)	Behrooz Karimi, Masoud Jenabi	Iran (Islamic Republic of)	May 2009	1

3	The quintessence of supply chain management: what you really need to know to manage your processes in procurement, manufacturing, warehousing and logistics	Behrooz Karimi, Zahra Mohammadian Behbahani	Iran (Islamic Republic of)	March 2021	1
4	Green Transportation and New Advances in Vehicle Routing Problems:Chapter1:A Robust Optimization for a Home Healthcare Routing and Scheduling Problem Considering Greenhouse Gas Emissions and Stochastic Travel and Service Times	Amir Mohammad Fathollahifard, Abbas Ahmadi, Behrooz Karimi	Switzerland	December 2020	1

## Journal Papers

### Portal Records

- 1 Nadia Pourmohammad Zia, Behrooz Karimi, [en-name N/A], "Food supply chain coordination for growing items: A trade-off between market coverage and cost-efficiency", INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS, December 2021 Vol. 242, Num. 1, Page 1-20, December 2021,
- 2 Amir Mohammad Fathollahifard, Abbas Ahmadi, Behrooz Karimi, "Multi-Objective Optimization of Home Healthcare with Working-Time Balancing and Care Continuity", Sustainability, November 2021 Vol. 13, Num. 22, Page 1-33, November 2021,
- 3 Neda Rafiee Parsa, [en-name N/A], Behrooz Karimi, S.Mohammad Moattar Husseini, "A hybrid neural network approach to minimize total completion time on a single batch processing machine", International Transactions in Operational Research, November 2021 Vol. 28, Num. 28, Page 2867-2899, November 2021,
- 4 Nadia Pourmohammad Zia, Behrooz Karimi, [en-name N/A], "Dynamic pricing and inventory control policies in a food supply chain of growing and deteriorating items", ANNALS OF OPERATIONS RESEARCH, September 2021 Vol. 305, Num. 0, Page 1-40, September 2021,
- 5 [en-name N/A], Hadi Deymeh, Behrooz Karimi, [en-name N/A], "Incorporating sales and marketing considerations into a competitive multi-echelon distribution network design problem with pricing strategy in a stochastic environment", Journal of Retailing and Consumer Services, June 2021 Vol. 62, Num. 62, Page 1-15, June 2021,
- 6 Sina Keyhanian, Abbas Ahmadi, Behrooz Karimi, "On pricing and bundling decisions for stackelberg games in parallel channels of substitutable composites", RAIRO-OPERATIONS RESEARCH, March 2021 Vol. 55, Num. 0, Page 1657-1704, March 2021,
- 7 G. Reza Nasiri, Mohammad Kalantari Khalilabad, Behrooz Karimi, "Fast-moving consumer goods network design with pricing policy in an uncertain environment with correlated demands", COMPUTERS & INDUSTRIAL ENGINEERING, February 2021 Vol. 153, Num. 106997, Page 1-15, February 2021,
- 8 Nazanin Foroozesh, Fariborz Jolai, Seyed Meysam Mousavi, Behrooz Karimi, "A new fuzzy-stochastic compromise ratio approach for green supplier selection problem with interval-valued possibilistic statistical information", NEURAL COMPUTING & APPLICATIONS, January 2021 Vol. Jan. 2 2021, Num. 0, Page 1-21, January 2021,
- 9 Mehdi Abdollahi Kamran, Behrooz Karimi, "Investigating and Analysis of Hospital Performance Using Discrete Event Simulation", AUT Journal of Modeling and Simulation, December 2020 Vol. 52, Num. 2, Page 1-19, December 2020,
- 10 Seyyed Mohammad Taghi Fatemi Ghomi, Behrooz Karimi, Javad Behnamian, Jelveh Firoozbakht, "A multi-objective particle swarm optimization based on pareto archive for integrated production and distribution planning in a green supply chain", APPLIED ARTIFICIAL INTELLIGENCE, November 2020 Vol. 0, Num. 0, Page 0-0, November 2020,
- 11 Mehdi A. Kamran, Behrooz Karimi, Nico Dellaert, "A column-generation-heuristic-based benders' decomposition for solving adaptive allocation scheduling of patients in operating rooms", COMPUTERS & INDUSTRIAL ENGINEERING, October 2020 Vol. 148, Num. 0, Page 0-0, October 2020,
- 12 Meysam Naderi, Ehsan Khamehchi, Behrooz Karimi, "A rigorous approach to uncertain production optimization using a hybrid algorithm: Combination of a meta-heuristic and a Quasi-Newton method", JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, September 2020 Vol. 195, Num. 12, Page 0-0, September 2020,

- 13 Meysam Naderi, Ehsan Khamehchi, Behrooz Karimi, "Production Optimization Based on Integrated Modeling and Gradient Methods", *Biointerface Research in Applied Chemistry-OPEN*, July 2020 Vol. 11, Num. 1, Page 7665-7676, July 2020,
- 14 Nadia Pourmohammad Zia, Behrooz Karimi, "Optimal Replenishment and Breeding Policies for Growing Items", *ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING*, June 2020 Vol. 45, Num. 0, Page 7005-7015, June 2020,
- 15 Sina Keyhanian, Abbas Ahmadi, Behrooz Karimi, "A Study on Pricing under a Coopetitive and Duopolistic Market of Vertically Differentiated Products", *INDUSTRIAL ENGINEERING AND MANAGEMENT SYSTEMS*, December 2019 Vol. 18, Num. 4, Page 776-793, December 2019,
- 16 Mehdi A. Kamran, Behrooz Karimi, Nico Dellaert, Erik Demeulemeester, "Adaptive operating rooms planning and scheduling: A rolling horizon approach", *Operations Research for Health Care*, September 2019 Vol. 22, Num. 0, Page 0-0, September 2019,
- 17 Masoud Ebrahimi Vostakolaei, Seyyed Mohammad Taghi Fatemi Ghomi, Behrooz Karimi, "APPLICATION OF THE PREVENTIVE MAINTENANCE SCHEDULING TO INCREASE THE EQUIPMENT RELIABILITY: CASE STUDY- BAG FILTERS IN CEMENT FACTORY", *JOURNAL OF INDUSTRIAL AND MANAGEMENT OPTIMIZATION*, January 2019 Vol. 0, Num. 0, Page 0-0, January 2019,
- 18 Seyed Habibollah Rahmati, Abbas Ahmadi, Behrooz Karimi, "Developing simulation based optimization mechanism for a novel stochastic reliability centered maintenance problem", *SCIENTIA IRANICA TRANSACTION E-INDUSTRIAL ENGINEERING*, October 2018 Vol. 25, Num. 5, Page 2788-2806, October 2018,
- 19 Ehsan Khamehchi, Meysam Naderi, Behrooz Karimi, "Novel statistical forecasting models for crude oil price, gas price, and interest rate based on meta-heuristic bat algorithm", *JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING*, September 2018 Vol. 172, Num. 0, Page 13-22, September 2018,
- 20 Mehdi Abdollahi Kamran, Behrooz Karimi, Nico Dellaert, "Uncertainty in advance scheduling problem in operating room planning", *COMPUTERS & INDUSTRIAL ENGINEERING*, September 2018 Vol. 126, Num. 0, Page 252-268, September 2018,
- 21 Mohammadhosein Vaghefzadeh, Behrooz Karimi, "Demand management using time series regression models in the context of mobile value-added services", , September 2018 Vol. 8, Num. 30, Page 9-30, September 2018,
- 22 Seyed Habibollah Rahmati, Abbas Ahmadi, Behrooz Karimi, "Multi-objective evolutionary simulation based optimization mechanism for a novel stochastic reliability centered maintenance problem", *Swarm and Evolutionary Computation*, March 2018 Vol. 0, Num. 0, Page 1-17, March 2018,
- 23 Mahdi Rezaei, Mohsen Akbarpour Shirazi, Behrooz Karimi, "A multi objective SCOR-Based Decision Alignment for Supply Chain Performance Management", *SCIENTIA IRANICA TRANSACTION E-INDUSTRIAL ENGINEERING*, January 2018 Vol. 0, Num. 0, Page 0-0, January 2018,
- 24 Vahid Kayvanfar, Mohsen Sheikh Sajadieh, S.Mohammad Moattar Hussein, Behrooz Karimi, "Analysis of a multi-echelon supply chain problem using revised multi-choice goal programming approach", *KYBERNETES*, December 2017 Vol. 0, Num. 0, Page 0-0, December 2017,
- 25 Vahid Kayvanfar, S.Mohammad Moattar Hussein, Behrooz Karimi, Mohsen Sheikh Sajadieh, "Supply-demand hub in industrial clusters: a stochastic approach", *ENGINEERING OPTIMIZATION*, December 2017 Vol. 0, Num. 0, Page 0-0, December 2017,
- 26 Vahid Kayvanfar, S.Mohammad Moattar Hussein, Mohsen Sheikh Sajadieh, Behrooz Karimi, "A multi-echelon multi-product stochastic model to supply chain of small-and-medium enterprises in industrial clusters", *COMPUTERS & INDUSTRIAL ENGINEERING*, November 2017 Vol. 115, Num. 0, Page 69-79, November 2017,
- 27 Somaye Torkaman, Seyyed Mohammad Taghi Fatemi Ghomi, Behrooz Karimi, "Hybrid simulated annealing and genetic approach for solving a multi-stage production planning with sequence-dependent setups in a closed-loop supply chain", *APPLIED SOFT COMPUTING*, November 2017 Vol. 0, Num. 0, Page 0-0, November 2017,
- 28 Somaye Torkaman, Seyyed Mohammad Taghi Fatemi Ghomi, Behrooz Karimi, "Multi-stage multi-product multi-period production planning with sequence-dependent setups in closed-loop supply chain", *COMPUTERS & INDUSTRIAL ENGINEERING*, October 2017 Vol. 113, Num. 0, Page 602-613, October 2017,
- 29 Mohammadamin Edalatpour, Seyed Mohammad Javad Mirzapour Alehashem, Behrooz Karimi, Bouchaib Bahli, "Investigation on a novel sustainable model for waste management in megacities: A case study in Tehran municipality", *Sustainable Cities and Society*, October 2017 Vol. 36, Num. 0, Page 286-301, October 2017,

- 30 Reza Maihami, Behrooz Karimi, Seyyed Mohammad Taghi Fatemi Ghomi, "Pricing and Inventory Control in a Supply Chain of Deteriorating Items: A Non-cooperative Strategy with Probabilistic Parameters", *International Journal of Applied and Computational Mathematics*, September 2017 Vol. 3, Num. 3, Page 2477-2499, September 2017,
- 31 Hamidreza Dezfoolian, Abbas Afraze, Behrooz Karimi, "A new model to optimize the knowledge exchange in industrial cluster: A case study of Semnan plaster production industrial cluster", *Scientia Iranica*, May 2017 Vol. 24, Num. 2, Page 834-846, May 2017,
- 32 Vahid Kayvanfar, S.Mohammad Moattar Hussein, Behrooz Karimi, Mohsen Sheikh Sajadieh, "Bi-objective intelligent water drops algorithm to a practical multi-echelon supply chain optimization problem", *JOURNAL OF MANUFACTURING SYSTEMS*, May 2017 Vol. 44, Num. 0, Page 93-114, May 2017,
- 33 Mahdi Rezaei, Mohsen Akbarpour Shirazi, Behrooz Karimi, "IoT based framework for performance measurement", *INDUSTRIAL MANAGEMENT & DATA SYSTEMS*, May 2017 Vol. 117, Num. 4, Page 688-712, May 2017,
- 34 J. Behnamian, Seyyed Mohammad Taghi Fatemi Ghomi, Behrooz Karimi, Marzieh Fadaei Moloudi, "A Markovian approach for multi-level multi-product multi-period capacitated lot-sizing problem with uncertainty in levels", *INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH*, April 2017 Vol. 0, Num. 0, Page 0-0, April 2017,
- 35 [en-name N/A], Behrooz Karimi, "A simulated annealing algorithm for solving multi-depot location routing problem with backhaul", *International Journal of Industrial and Systems Engineering*, February 2017 Vol. 25, Num. 4, Page 460-477, February 2017,
- 36 Neda Rafiee Parsa, Behrooz Karimi, S.Mohammad Moattar Hussein, "Exact and heuristic algorithms for the just-in-time scheduling problem in a batch processing system", *COMPUTERS & OPERATIONS RESEARCH*, December 2016 Vol. 80, Num. 0, Page 173-183, December 2016,
- 37 Ehsan Arabzadeh, Seyyed Mohammad Taghi Fatemi Ghomi, Behrooz Karimi, "A new mathematical model for multi period multi depot home health care routing scheduling problem", *Nursing Practice Today-OPEN*, December 2016 Vol. 3, Num. 4, Page 140-151, December 2016,
- 38 Mehdi Abdollahi Kamran, Behrooz Karimi, Hamidreza Bakhtiari, Sina Masoom Zadeh, "A resource allocation model in a healthcare emergency center using goal programming", *Journal of Engineering Research*, December 2016 Vol. 4, Num. 4, Page 81-97, December 2016,
- 39 Neda Rafiee Parsa, Behrooz Karimi, S.Mohammad Moattar Hussein, "An improved memetic algorithm to minimize the earliness-tardiness on a single batch processing machine", *Journal of Industrial and Systems Engineering*, November 2016 Vol. 10, Num. 0, Page 57-72, November 2016,
- 40 Saeed Kamarian, Mahmoud Shakeri, Behrooz Karimi, Amin Pourasghar, "Free vibration analysis and design optimization of nanocomposite-laminated beams using various higher order beam theories and imperialist competitive algorithm", *POLYMER COMPOSITES*, August 2016 Vol. 37, Num. 8, Page 2442-2451, August 2016,
- 41 Neda Rafiee Parsa, Behrooz Karimi, S.Mohammad Moattar Hussein, "Minimizing total flow time on a batch processing machine using a hybrid max-min ant system", *COMPUTERS & INDUSTRIAL ENGINEERING*, June 2016 Vol. 0, Num. 0, Page 0-0, June 2016,
- 42 Maryam Khojaste Sarakhsi, Seyyed Mohammad Taghi Fatemi Ghomi, Behrooz Karimi, "Joint economic lot-sizing problem for a two-stage supply chain with price-sensitive demand", *SCIENTIA IRANICA TRANSACTION E-INDUSTRIAL ENGINEERING*, June 2016 Vol. 23, Num. 3, Page 1474-1487, June 2016,
- 43 Behrooz Karimi, Mohammad Mohajer Tabrizi, S.Ali Mirhassani, "A novel two-stage stochastic model for supply chain network design under uncertainty", *SCIENTIA IRANICA TRANSACTION E-INDUSTRIAL ENGINEERING*, May 2016 Vol. 23, Num. 6, Page 3046-3062, May 2016,
- 44 Reza Maihami, Behrooz Karimi, Seyyed Mohammad Taghi Fatemi Ghomi, "Effect of two-echelon trade credit on pricing-inventory policy of non-instantaneous deteriorating products with probabilistic demand and deterioration functions", *ANNALS OF OPERATIONS RESEARCH*, April 2016 Vol. 0, Num. 0, Page 0-0, April 2016,
- 45 Maryam Khojaste Sarakhsi, Seyyed Mohammad Taghi Fatemi Ghomi, Behrooz Karimi, "A new hybrid algorithm of scatter search and Nelder-Mead algorithms to optimize joint economic lot sizing problem", *JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS*, January 2016 Vol. 292, Num. 0, Page 387-401, January 2016,
- 46 Marzieh Mozafari, Behrooz Karimi, Masoud Mahootchi, "A differential Stackelberg game for pricing on a freight transportation network with one dominant shipper and multiple oligopolistic carriers", *SCIENTIA IRANICA TRANSACTION E-INDUSTRIAL ENGINEERING*, January 2016 Vol. 23, Num. 5, Page 2391-2406, January 2016,



- 47 Mojtaba Hajian Heidary, Seyyed Mohammad Taghi Fatemi Ghomi, Behrooz Karimi, "Supply chain network design for deteriorating items with discount on transportation cost", SCIENTIA IRANICA TRANSACTION E-INDUSTRIAL ENGINEERING, December 2015 Vol. 22, Num. 6, Page 2634-2643, December 2015,
- 48 Marzieh Mozafari, Behrooz Karimi, Masoud Mahootchi, "Dynamic pricing and freight transportation planning in oligopolistic freight networks: A game theoretic approach", Transportmetrica A:Transport Science, October 2015 Vol. 11, Num. 10, Page 918-938, October 2015,
- 49 Majid Ramezani, Ali Mohammad Kimiagari, Behrooz Karimi, "interrelating physical and financial flows in a bi-objective closed-loop supply chain network problem with uncertainty", SCIENTIA IRANICA TRANSACTION E-INDUSTRIAL ENGINEERING, May 2015 Vol. 22, Num. 3, Page 1278-1293, May 2015,
- 50 Nima Hamta, Mohammad Fattahi , Mohsen Akbarpour Shirazi, Behrooz Karimi, "A Modified Benders Decomposition Algorithm for Supply Chain Network Design under Risk Consideration", Journal of Quality Engineering and Production Optimization, May 2015 Vol. 1, Num. 1, Page 0-0, May 2015,
- 51 Maede Mokhtarinejad, Abbas Ahmadi, Behrooz Karimi, Seyed Habibollah Rahmati, "A novel learning based approach for a new integrated location routing and scheduling problem within cross-docking considering direct shipment", APPLIED SOFT COMPUTING, May 2015 Vol. 0, Num. 0, Page 0-0, May 2015,
- 52 Majid Jaberipour, Esmale Khorram, Behrooz Karimi, "Random derivative- free algorithm for solving unconstrained or bound constrained continuously differentiable non-linear problems", OPTIMIZATION METHODS & SOFTWARE, March 2015 Vol. 0, Num. 0, Page 0-0, March 2015,
- 53 Rasoul Jamshidi, Seyyed Mohammad Taghi Fatemi Ghomi, Behrooz Karimi, "Flexible supply chain optimization with controllable lead time and shipping option", APPLIED SOFT COMPUTING, February 2015 Vol. 30, Num. 0, Page 26-35, February 2015,
- 54 Mohammad Mohajer Tabrizi, Behrooz Karimi, "supply chain network design under uncertainty with new insights from contracts", JOURNAL OF ZHEJIANG UNIVERSITY -SCIENCE C-COMPUTERS & ELECTRONICS, December 2014 Vol. 15, Num. 12, Page 1106-1122, December 2014,
- 55 Hanieh Rasouli Saadabad, Fariborz Rashidi, Behrooz Karimi, Ehsan Khomehchi, "A Surrogate Integrated Production Modeling Approach to Long-Term Gas-Lift Allocation Optimization", CHEMICAL ENGINEERING COMMUNICATIONS, December 2014 Vol. 202, Num. 5, Page 647-654, December 2014,
- 56 Reza Maihami, Behrooz Karimi, "Optimizing the pricing and replenishment policy for non-instantaneous deteriorating items with stochastic demand and promotional efforts", COMPUTERS & OPERATIONS RESEARCH, November 2014 Vol. 51, Num. 51, Page 302-312, November 2014,
- 57 Seyed Habibollah Rahmati, Abbas Ahmadi, Behrooz Karimi, "Facility Location and Inventory Balancing in a Multi-period Multiechelon Multi-objective Supply Chain: An MOEA Approach", Journal of Optimization in Industrial Engineering, November 2014 Vol. 16, Num. 0, Page 83-99, November 2014,
- 58 Zohre Moattarhosseni, Behrooz Karimi, S.Mohammad Moattar Hussein, S.Hassan Ghodsypour, "Multi-objective integrated production distribution planning concerning manufacturing partners", INTERNATIONAL JOURNAL OF COMPUTER INTEGRATED MANUFACTURING, October 2014 Vol. , Num. 0, Page 1-18, October 2014,
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## Journals Editorial Board

#	Magazine Title	Date of Cooperation & Explanations
1	Supply Chain Management (Iranian Journal)	Editor in Chief (from 2011)
2	Iranian Journal of Trade Studies (IJTS)	Editorial Board

## Taught Courses

#	Course title	Description	Headlines	Date
1	Introduction to Logistics & Supply Chain Management	This course is an introduction to logistics and supply chain management. Concepts and basic information about SCM will be discussed in this course.		Fall 2021
2	Inventory Planning & Control I	Introducing concepts of inventory control, demand forecasting methods and modeling inventory control problems		Fall 2021
3	Optimization I	In this course mathematical modeling and especially linear programming and methods for solving this kind of problems will be introduced to students		Spring 2021
4	Inventory Planning & Control I	Introducing concepts of inventory control, demand forecasting methods and modeling inventory control problems		Fall 2020
5	Introduction to Logistics & Supply Chain Management	This course is an introduction to logistics and supply chain management. Concepts and basic information about SCM will be discussed in this course.		Fall 2020