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h-index (Scopus):

17

Citations (Scopus):

1061

**Supervised PhD Theses**

#	Thesis title	By	Date
1	Numerical methods for optimal control problems governed by fractional ordinary and partial differential equation	Mushtaq Salih Ali & S.Ali Mirhassani	February 2019

**Supervised MSc Theses**

#	Thesis title	By	Date
1	Sensor location problem on transportation network to recognize traffic flow	Fatemeh Vahdat Darband & S.Ali Mirhassani	October 2021
2	Optimum portfolio based on index tracking	Shima Azartoosi & S.Ali Mirhassani	October 2021
3	Perspective Function: Properties, and its application in optimization	Saba Ghasemi Naraghi & S.Ali Mirhassani	October 2021
4	Emergency evacuation from building : model and algorithm	Zahra Zare & S.Ali Mirhassani	January 2021
5	Optimal design and planning in water distribution network: model and algorithm	Mahsa Jamalian & S.Ali Mirhassani	October 2020
6	Stochastic programming with probabilistic constraints in relief network design	Fatemeh Garmroudi & S.Ali Mirhassani	October 2020

7	Natural gas network expansion under uncertainty	Aida Farshidvard & S.Ali Mirhassani	October 2019
8	surrogate constraint optimization	Parisa Vaghfi Mohebbi & S.Ali Mirhassani	October 2019
9	Locating contaminant detection sensors in water distribution network : model and algorithm	Fatemeh Amerehi & S.Ali Mirhassani	September 2019
10	Operational planning for natural gas distribution network	Maryam Bayat & S.Ali Mirhassani	September 2019
11	Optimization of fuel consumption in shipping lines	Milad Nazari & S.Ali Mirhassani	December 2018
12	Improved Benders decomposition algorithm and its application in disaster management	Hoda Ashrafi & S.Ali Mirhassani	October 2018
13	Lagrangian decomposition and its application in refinery planning	Najme Benvari & S.Ali Mirhassani	October 2018
14	detection of critical nodes and arcs in graphs: models and algorithm	Fatemeh Mirarab Razi & S.Ali Mirhassani	October 2018
15	A MIP model to location hybrid wind-photovoltaic systems	Seyedeh Faegheh Seyed Jebreili & S.Ali Mirhassani	February 2018
16	Hybridizes column generation and decomposition method for production planning	Fatemeh Rabie Kashanaki & S.Ali Mirhassani	February 2018
17	Natural gas transportation network under uncertainty	Shirin Fath Alizadeh Kalkhoran & S.Ali Mirhassani	February 2018
18	Modified Benders Decomposition For MIP	Mohammadnasir Yar Ahmadi & S.Ali Mirhassani	February 2018
19	Development of infrastructure networks for AFV	Azin Khaleghi & S.Ali Mirhassani	February 2018
20	Solving MIP Problem Using Combinatorial Cuts	Fateme Ramezanpoor & S.Ali Mirhassani	January 2017
21	Generation power expansion planning under uncertainty	Samira Samanifar & S.Ali Mirhassani	December 2016
22	Algorithms for determining minimal infeasible subsets (MIS)	Vahid Zeinodin & S.Ali Mirhassani	October 2016
23	Solving MIP problem Using Pareto-Optimal cuts	Mobina Dastmardi & S.Ali Mirhassani	October 2016
24	Mixed- Integer, Quadratic Programming(MIQP)	Amin Yarahmadi & S.Ali Mirhassani	February 2016
25	solving competitive facility location problem	Malihe Shojaa & S.Ali Mirhassani	February 2016
26	vehicle routing problem under disruption	Sepideh Sheikholeslami & S.Ali Mirhassani	October 2015
27	Solution methods for ring-star problem	Farideh Saremi & S.Ali Mirhassani	February 2015
28	bus terminals location in the integrated networks	Ali Monemi & S.Ali Mirhassani	October 2014

29	Methods to solve Two Dimensional Irregular Cutting Stock Problem	Alireza Jalaiean Bashirzadeh & S.Ali Mirhassani	October 2014
30	Modeling of Two Dimensional Irregular Cutting Stock Problem	Shirin Hamidian & S.Ali Mirhassani	October 2014
31	bus scheduling in integrated network	Javad Zamani Kafshani & S.Ali Mirhassani	October 2014
32	MIP Problems and DNA Computing	Mercedeh Dodge & S.Ali Mirhassani	September 2014
33	Robust Network flow Optimization and its application in transportation	Fateme Yazdanifar & S.Ali Mirhassani	January 2014
34	multi-parametric programming and its application in solving Bi-level problem	Marziyh Izadi & S.Ali Mirhassani	October 2013
35	model of facility location and network design	Soha Tabatabaei & S.Ali Mirhassani	October 2013
36	Applying reformulation linearization technique onMIP problems	Seyede Mahshad Mirhadi Tafreshi & S.Ali Mirhassani	October 2013
37	solving vehicle routing problem under capacity and time window constraints	Simin Mohammadyari & S.Ali Mirhassani	October 2013
38	application of particle swarm optimization algorithm for solving bi-level programming problem	Samaneh Raeisi Khonche & S.Ali Mirhassani	October 2013
39	The vehicle routing VRP in product distribution system	Kamran Yahyaie & S.Ali Mirhassani	January 2013
40	Operational scheduling of petraleum products via pipeline	Neda Beheshti Asl & S.Ali Mirhassani	November 2012
41	Multi compartment vihcle routing problem programming	Aazam Dolatnejad & S.Ali Mirhassani	November 2012
42	solutions of integrated public transit network design problem	Maryam Hoseini & S.Ali Mirhassani	October 2012
43	the models of integrated and hierarchical network design problem	Atieh Namazi & S.Ali Mirhassani	October 2012
44	Airport gate assignments under uncertainty	Hamed Ghafari & S.Ali Mirhassani	June 2012
45	Operational scheduling of refined products pipeline network with simultaneous batch injection	Hossein Mostafaei & S.Ali Mirhassani	October 2011
46	Siting fuel stations using the flow refueling location model	Roozbeh Ebrazi & S.Ali Mirhassani	October 2011
47	Study of heuristic algorithms for constructing exam timetables	Zahra Yazdaniyan & S.Ali Mirhassani	October 2011
48	Development of optimization algorithm for intelligent wells	Morteza Hassan Abadi & S.Ali Mirhassani	September 2011
49	Rescheduling multiproduct pipeline with inventory management	Nemat-Allah Taghi-Nezhad & S.Ali Mirhassani	January 2011
50	The scheduling of multiproduct oil distribution system using huristic procedures	Sajad Moradi & S.Ali Mirhassani	January 2011

51	Heterogeneous fixed fleet vehicle routing problem	Zahra Saadati & S.Ali Mirhassani	November 2010
52	Bounds for a capacitated plant location problem	Farnaz Hooshmand Khaligh & S.Ali Mirhassani	September 2010
53	petrol station replenishment problems PSRP	Saeedeh Assadzadeh Maleky & S.Ali Mirhassani	July 2010
54	Aparticle swarm obtimization for vehicle routing problem	Narges Abolghasemi & S.Ali Mirhassani	January 2010
55	Dynamic scheduling of multiproduct pipelines with multiple delivery due dates	Mokhtar Abbasi & S.Ali Mirhassani	January 2010
56	CFLP with application in oil industry	Arsalan Rahmani & S.Ali Mirhassani	September 2009
57	The open vehicle rou ting problem: algorithms large scale test problems and computational results	Ahmad Mahmoodjanloo & S.Ali Mirhassani	July 2009
58	A branch -and-price algorithm for the capacitated facility location problem	Tayebeh Sobhani & S.Ali Mirhassani	June 2009
59	Anovel continuous time representation for the scheduling of pipeline systems with pumping yield rate constraints	Hamed Fani Jahromi & S.Ali Mirhassani	November 2008
60	A lagrangean relaxation and decomposition algorithm for the video placement and routing problem	Meysam Hoseini & S.Ali Mirhassani	November 2008
61	Moleling framework for oil product transformation and distribution optimization	Reza Noori & S.Ali Mirhassani	August 2008
62	Optimal scheduling of multi- product systems for oil industry	Maryam Ghorbanalizadeh & S.Ali Mirhassani	December 2007

## Books

#	Title	Author(s)	Publisher country	publication date	version
<b>Portal Records</b>					
1	Data Envelopment Analysis	S.Ali Mirhassani	Iran (Islamic Republic of)	September 2008	1
2	Stochastic Programming	S.Ali Mirhassani, Farnaz Hooshmand Khaligh	Iran (Islamic Republic of)	October 2014	1
3	Methods in Mathematical Modeling	S.Ali Mirhassani, Farnaz Hooshmand Khaligh	Iran (Islamic Republic of)	November 2018	1
4	Introduction to Stochastic Optimization Methods	S.Ali Mirhassani, Farnaz Hooshmand Khaligh	Iran (Islamic Republic of)	June 2021	1
5	Model Building in Mathematical Programming	S.Ali Mirhassani	Iran (Islamic Republic of)	February 2007	0
6	Operations Research:Applications and Algorithms	S.Ali Mirhassani	Iran (Islamic Republic of)	February 2005	1
7	Linear Algebra and Its Applications	S.Ali Mirhassani	Iran (Islamic Republic of)	February 2004	1

8	Statistical Methods for Engineers	S.Ali Mirhassani	Iran (Islamic Republic of)	February 2004	1
9	Methods and Models in Mathematical Programming	S.Ali Mirhassani, Farnaz Hooshmand Khaligh	Switzerland	December 2019	1

## Journal Papers

### Portal Records

- 1 Farnaz Hooshmand Khaligh, Mahsa Jamalian, S.Ali Mirhassani, "Efficient Two-Phase Algorithm to Solve Nonconvex MINLP Model of Pump Scheduling Problem", JOURNAL OF WATER RESOURCES PLANNING AND MANAGEMENT-ASCE, May 2021 Vol. 147, Num. 8, Page 1-15, May 2021,
- 2 Behrooz Farkiani, Bahador Bakhshi Saeskanrood, S.Ali Mirhassani, Tim Wauters, Bruno Volckaert, Filip De Turck, "Prioritized Deployment of Dynamic Service Function Chains", IEEE-ACM TRANSACTIONS ON NETWORKING, February 2021 Vol. 0, Num. 0, Page 0-0, February 2021,
- 3 S.Ali Mirhassani, Azin Khaleghi, Farnaz Hooshmand Khaligh, "Two-stage stochastic programming model to locate capacitated EV-charging stations in urban areas under demand uncertainty", EURO JOURNAL ON TRANSPORTATION AND LOGISTICS, November 2020 Vol. 0, Num. 0, Page 1-12, November 2020,
- 4 Javad Rezaei, Fatemeh Zare Mirakabad, S.Ali Mirhassani, Seyed Amir Marashii, "EIA-CNDP: An exact iterative algorithm for critical node detection problem", COMPUTERS & OPERATIONS RESEARCH, November 2020 Vol. 127, Num. 1, Page 105-138, November 2020,
- 5 Amirhossein Fani, Hamed Naseri, Amir Golroo, S.Ali Mirhassani, Amir H. Gandomi, "A progressive hedging approach for large-scale pavement maintenance scheduling under uncertainty", INTERNATIONAL JOURNAL OF PAVEMENT ENGINEERING, November 2020 Vol. 0, Num. 0, Page 1-13, November 2020,
- 6 Farnaz Hooshmand Khaligh, Fatemeh Amerehi, S.Ali Mirhassani, "Risk-Based Models for Optimal Sensor Location Problems in Water Networks", JOURNAL OF WATER RESOURCES PLANNING AND MANAGEMENT-ASCE, September 2020 Vol. 146, Num. 11, Page 1-12, September 2020,
- 7 Amirhossein Fani, Amir Golroo, S.Ali Mirhassani, Amir Hosein Gandomi, "Pavement maintenance and rehabilitation planning optimisation under budget and pavement deterioration uncertainty", INTERNATIONAL JOURNAL OF PAVEMENT ENGINEERING, April 2020 Vol. 0, Num. 0, Page 1-11, April 2020,
- 8 Mercedeh Dodge, S.Ali Mirhassani, Farnaz Hooshmand Khaligh, "Solving two-dimensional cutting stock problem via a DNA computing algorithm", Natural Computing, March 2020 Vol. 0, Num. 0, Page 1-15, March 2020,
- 9 Javad Zamani Kafshani, S.Ali Mirhassani, Farnaz Hooshmand Khaligh, "Adopting GRASP to solve a novel model for bus timetabling problem with minimum transfer and fruitless waiting times", AUT Journal of Mathematics and Computing, February 2020 Vol. 1, Num. 1, Page 125-134, February 2020,
- 10 Farnaz Hooshmand Khaligh, Fatemeh Amerehi, S.Ali Mirhassani, "Logic-based benders decomposition algorithm for contamination detection problem in water networks", COMPUTERS & OPERATIONS RESEARCH, November 2019 Vol. 115, Num. 0, Page 1-17, November 2019,
- 11 Behrooz Farkiani, Bahador Bakhshi Saeskanrood, S.Ali Mirhassani, "A Fast Near-Optimal Approach for Energy-Aware SFC Deployment", IEEE Transactions on Network and Service Management, September 2019 Vol. 0, Num. 0, Page 0-0, September 2019,
- 12 Sadjad Moradi, S.Ali Mirhassani, Farnaz Hooshmand Khaligh, "Efficient decomposition-ased algorithm to solve long-term peline scheduling problem", PETROLEUM SCIENCE, September 2019 Vol. 0, Num. 0, Page 0-0, September 2019,
- 13 Abdoli, S.Ali Mirhassani, Farnaz Hooshmand Khaligh, "On different formulations of green vehicle routing problems", Journal of Information and Optimization Sciences, May 2019 Vol. 0, Num. 0, Page 0-0, May 2019,
- 14 Farnaz Hooshmand Khaligh, Fatemeh Mirarab Razi, S.Ali Mirhassani, "Efficient Benders decomposition for distance-based critical node detection problem", OMEGA-INTERNATIONAL JOURNAL OF MANAGEMENT SCIENCE, February 2019 Vol. 0, Num. 0, Page 0-0, February 2019,

- 15 Neda Beheshti Asl, S.Ali Mirhassani, "Benders decomposition with integer sub-problem applied to pipeline scheduling problem under flow rate uncertainty", *COMPUTERS & CHEMICAL ENGINEERING*, January 2019 Vol. 0, Num. 0, Page 0-0, January 2019,
- 16 Vahid Nikbin, Majid Ataee Pour, Kourosh Shahriar, Yashar Pourrahimian, S.Ali Mirhassani, "Stope boundary optimization: A mathematical model and efficient heuristics", *RESOURCES POLICY*, November 2018 Vol. 0, Num. 0, Page 1-12, November 2018,
- 17 Behrooz Farkiani, Bahador Bakhshi Saeskanrood, S.Ali Mirhassani, "Stochastic virtual network embedding via accelerated Benders decomposition", *FUTURE GENERATION COMPUTER SYSTEMS-THE INTERNATIONAL JOURNAL OF ESCIENCE*, November 2018 Vol. 0, Num. 0, Page 0-0, November 2018,
- 18 Farnaz Hooshmand Khaligh, S.Ali Mirhassani, "An Effective Bilevel Programming Approach for the Evasive Flow Capturing Location Problem", *NETWORKS & SPATIAL ECONOMICS*, August 2018 Vol. 0, Num. 0, Page 0-0, August 2018,
- 19 Neda Beheshti Asl, S.Ali Mirhassani, "Accelerating benders decomposition: multiple cuts via multiple solutions", *JOURNAL OF COMBINATORIAL OPTIMIZATION*, June 2018 Vol. 0, Num. 0, Page 0-0, June 2018,
- 20 Rahmani, S.Ali Mirhassani, "An Improved Multi-parametric Method for Solving MIBLPP", *Journal of Information and Optimization Sciences*, June 2018 Vol. 0, Num. 0, Page 0-0, June 2018,
- 21 Behrooz Abdoli, S.Ali Mirhassani, Farnaz Hooshmand Khaligh, "Green Vehicle Routing Problem and Emissions Minimization", , April 2018 Vol. 54, Num. 0, Page 215-239, April 2018,
- 22 Farnaz Hooshmand Khaligh, S.Ali Mirhassani, "Time dependent green VRP with alternative fuel powered vehicles", *Energy Systems-Optimization Modeling Simulation and Economic Aspects*, March 2018 Vol. 0, Num. 0, Page 1-36, March 2018,
- 23 Farnaz Hooshmand Khaligh, S.Ali Mirhassani, Alireza Akhavein, "Adapting GA to solve a novel model for operating room scheduling problem with endogenous uncertainty", *Operations Research for Health Care*, March 2018 Vol. 19, Num. 0, Page 26-43, March 2018,
- 24 Farnaz Hooshmand Khaligh, S.Ali Mirhassani, "Vehicle Routing Problem under Endogenous Demand Uncertainty", *Industrial Engineering & Management Sharif*, December 2017 Vol. 33-1, Num. 0, Page 77-84, December 2017,
- 25 Farnaz Hooshmand Khaligh, S.Ali Mirhassani, Alireza Akhavein, "A scenario-based approach for master surgery scheduling under uncertainty", *International Journal of Healthcare Technology and Management*, December 2017 Vol. 16, Num. 0, Page 177-203, December 2017,
- 26 Behrooz Abdoli, S.Ali Mirhassani, Farnaz Hooshmand Khaligh, "Model and algorithm for bi-fuel vehicle routing problem to reduce GHG emissions", *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH*, July 2017 Vol. 0, Num. 0, Page 0-0, July 2017,
- 27 Meysam Hosseini, S.Ali Mirhassani, Farnaz Hooshmand Khaligh, "Deviation-flow refueling location problem with capacitated facilities: Model and algorithm", *TRANSPORTATION RESEARCH PART D-TRANSPORT AND ENVIRONMENT*, June 2017 Vol. 54, Num. 0, Page 269-281, June 2017,
- 28 Farnaz Hooshmand Khaligh, S.Ali Mirhassani, "Reduction of nonanticipativity constraints in multistage stochastic programming problems with endogenous and exogenous uncertainty", *MATHEMATICAL METHODS OF OPERATIONS RESEARCH*, June 2017 Vol. 0, Num. 0, Page 0-0, June 2017,
- 29 S.Ali Mirhassani, Amin Yarahmadi, "Wind farm layout optimization under uncertainty", *RENEWABLE ENERGY*, February 2017 Vol. 0, Num. 0, Page 0-0, February 2017,
- 30 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,
- 31 Sadjad Moradi, S.Ali Mirhassani, "Robust scheduling for multi-product pipelines under demand uncertainty", *INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY*, April 2016 Vol. 0, Num. 0, Page 0-0, April 2016,
- 32 Meysam Hosseini, S.Ali Mirhassani, "Refueling-station location problem under uncertainty", *TRANSPORTATION RESEARCH PART E-LOGISTICS AND TRANSPORTATION REVIEW*, November 2015 Vol. 0, Num. 0, Page 0-0, November 2015,

- 33 Meysam Hosseini, S.Ali Mirhassani, "A heuristic algorithm for optimal location of flow-refueling capacitated stations", *International Transactions in Operational Research*, October 2015 Vol. 0, Num. 0, Page 0-0, October 2015,
- 34 Farnaz Hooshmand Khaligh, S.Ali Mirhassani, "Efficient constraint reduction in multistage stochastic programming problems with endogenous uncertainty", *OPTIMIZATION METHODS & SOFTWARE*, September 2015 Vol. 0, Num. 0, Page 0-0, September 2015,
- 35 Farnaz Hooshmand Khaligh, S.Ali Mirhassani, "A mathematical model for vehicle routing problem under endogenous uncertainty", *INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH*, June 2015 Vol. 0, Num. 0, Page 0-0, June 2015,
- 36 S.Ali Mirhassani, Seyede Mahshad Mirhadi Tafreshi, Arsalan Rahmani, "A Computational approach to Convex Hull of Zero-one MIP problems with special structure", *Journal of Information and Optimization Sciences*, May 2015 Vol. 36, Num. 3, Page 197-230, May 2015,
- 37 S.Ali Mirhassani, Alireza Jalaeian Bashirzadeh, "A GRASP meta-heuristic for two-dimensional irregular cutting stock problem", *INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY*, May 2015 Vol. 78, Num. 5, Page 0-0, May 2015,
- 38 Sadjad Moradi, S.Ali Mirhassani, "Transportation planning of petroleum products and integrated inventory management", *APPLIED MATHEMATICAL MODELLING*, May 2015 Vol. 0, Num. 0, Page 0-0, May 2015,
- 39 Aazam Dolatnejad, S.Ali Mirhassani, Yousefi, "Solving the heterogeneous fixed fleet VRP by a column generation", *Journal of Transportation Engineering*, May 2015 Vol. 11, Num. 4, Page 307-320, May 2015,
- 40 Meysam Hosseini, S.Ali Mirhassani, "Selecting Optimal Location for Electric Recharging Stations with Queue", *KSCE JOURNAL OF CIVIL ENGINEERING*, January 2015 Vol. 0, Num. 0, Page 0-0, January 2015,
- 41 S.Ali Mirhassani, Samaneh Raeisi Khonche, A. Rahmani, "QBPSO Based Algorithm for Solving a Class of Bi-level Competitive Facility Location Problems", *OPTIMIZATION METHODS & SOFTWARE*, October 2014 Vol. 0, Num. 0, Page 0-0, October 2014,
- 42 S.Ali Mirhassani, Zahra Saadati, "A reactive adaptive memory metaheuristic for solving HFFVRP", *Production & Manufacturing Research*, October 2014 Vol. 2, Num. 1, Page 805-830, October 2014,
- 43 S.Ali Mirhassani, Simin Mohammadyari, "Reduction of carbon emissions in VRP by gravitational search algorithm", *Management of Environmental Quality: An International Journal*, September 2014 Vol. 25, Num. 6, Page 766-782, September 2014,
- 44 S.Ali Mirhassani, Atieh Namazi, Namazi, "Designing an efficient transit network for large cities", *International Journal of Management Science and Engineering Management*, June 2014 Vol. 9, Num. 4, Page 286-298, June 2014,
- 45 Arsalan Rahmani, S.Ali Mirhassani, "A Hybrid Firefly-Genetic Algorithm for the Capacitated Facility Location Problem", *INFORMATION SCIENCES*, June 2014 Vol. 283, Num. 0, Page 70-79, June 2014,
- 46 Arsalan Rahmani, S.Ali Mirhassani, "Lagrangean Relaxation-Based Algorithm for Bi-Level Problems", *OPTIMIZATION METHODS & SOFTWARE*, January 2014 Vol. 0, Num. 0, Page 0-0, January 2014,
- 47 S.Ali Mirhassani, Neda Beheshti Asl, "A Heuristic Batch Sequencing for Multiproduct Pipelines", *COMPUTERS & CHEMICAL ENGINEERING*, May 2013 Vol. 0, Num. 0, Page 0-0, May 2013,
- 48 S.Ali Mirhassani, Morteza Hassan Abadi, S. M. Motahhary, A. A. Asgari, "Smart wells optimum production plan by DOE", *Petroleum Research*, March 2013 Vol. 22, Num. 71, Page 38-57, March 2013,
- 49 Ezzeddin Bakhtavar, Kourosh Shahriar, S.Ali Mirhassani, "Optimization of the transition from open-pit to underground operation", *JOURNAL OF THE SOUTH AFRICAN INSTITUTE OF MINING AND METALLURGY*, December 2012 Vol. 112, Num. 0, Page 1059-1064, December 2012,
- 50 S.Ali Mirhassani, Mokhtar Abbasi, Sadjad Moradi, "Operational Scheduling of Refined Product Pipeline with Dual Purpose Depots", *APPLIED MATHEMATICAL MODELLING*, December 2012 Vol. 0, Num. 0, Page 0-0, December 2012,
- 51 S.Ali Mirhassani, Roozbeh Ebrazi, "A Flexible Reformulation of the Refueling-Station Location Problem", *TRANSPORTATION SCIENCE*, June 2012 Vol. 0, Num. 0, Page 0-0, June 2012,

- 52 S.Ali Mirhassani, Sajad Moradi, Nemat-Allah Taghi-Nezhad, "An Algorithm for Long-Term Scheduling of Multi-Product Pipelines", *INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH*, November 2011 Vol. 0, Num. 0, Page 0-0, November 2011,
- 53 S.Ali Mirhassani, Narges Abolghasemi, "A Particle Swarm Optimization Algorithm for Open Vehicle Routing Problem", *EXPERT SYSTEMS WITH APPLICATIONS*, September 2011 Vol. 38, Num. 9, Page 11547-11551, September 2011,
- 54 S.Ali Mirhassani, Fatemeh Habibi, "Solution Approaches to the Course Timetabling Problem", *ARTIFICIAL INTELLIGENCE REVIEW*, May 2011 Vol. 0, Num. 0, Page 0-0, May 2011,
- 55 S.Ali Mirhassani, Reza Noori, "Implications of Capacity Expansion Under Uncertainty in Oil Industry", *JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING*, March 2011 Vol. 77, Num. 2, Page 194-199, March 2011,
- 56 S.Ali Mirhassani, Hamed Fani Jahromi, "Scheduling Multi-Product Tree-Structure Pipelines", *Computers and Chemical Engineering*, April 2010 Vol. 0, Num. 0, Page 0-0, April 2010,
- 57 S.Ali Mirhassani, Maryam Ghorbanalizadeh, "The Multi-Product Pipeline Scheduling System", , August 2008 Vol. 0, Num. 56, Page 0-0, August 2008,
- 58 S.Ali Mirhassani, "An Operational Planning Model for Petroleum Products Logistics Under Uncertainty", , March 2008 Vol. 0, Num. 196, Page 0-0, March 2008,
- 59 S.Ali Mirhassani, [en-name N/A], "The DEA Process to The Planning of Well -Drilling Operations", *Amirkabir Journal of Science & Technology*, July 2007 Vol. 0, Num. 0, Page 0-0, July 2007,
- 60 S.Ali Mirhassani, "Improving Paper Spread in Examination Timetables Using Integer Programming", , January 2006 Vol. 0, Num. 0, Page 0-0, January 2006,
- 61 [en-name N/A], S.Ali Mirhassani, "A Layer DEA Model for Measuring and Improving The Efficiency in The Presence of Special Decision Making Units", , January 2006 Vol. , Num. 3, Page 0-0, January 2006,
- 62 S.Ali Mirhassani, "A Computational Approach to Enhancing Course Timetabling with Integer Programming", , January 2006 Vol. 0, Num. 0, Page 0-0, January 2006,
- 63 S.Ali Mirhassani, "The Development of Timetables for a Signal-Track Two Directions Railway", *International Journal of Engineering Science*, January 2005 Vol. 0, Num. 0, Page 0-0, January 2005,
- 64 S.Ali Mirhassani, "An Efficient Approach for Computing Non-Archimedean & in DEA Based on Integrated Models", , January 2005 Vol. 0, Num. 0, Page 0-0, January 2005,

## Conference Papers

### Portal Records








- 1 Fatemeh Vahdat Darband, Farnaz Hooshmand Khaligh, S.Ali Mirhassani, "A novel multi-objective model for sensor location problem to recognize traffic flow in transportation networks ", 17th Iranian International Industrial Engineering Conference, February 2021
- 2 Fatemeh Garmroudi, S.Ali Mirhassani, Farnaz Hooshmand Khaligh, "Using stochastic programming in relief network design ", 1st National Conference on Optimization of Production and Service Systems, November 2020
- 3 Zahra Zare, Farnaz Hooshmand Khaligh, S.Ali Mirhassani, "A network-based model for emergency evacuation of building ", 1st National Conference on Optimization of Production and Service Systems, November 2020
- 4 Parisa Vaghfi Mohebbi, S.Ali Mirhassani, "Combinatorial Optimization: The Surrogate Constraint Approach ", 13th International Conference of Iranian Operations Research Society, September 2020
- 5 Mahsa Jamalian, Farnaz Hooshmand Khaligh, S.Ali Mirhassani, "MINLP model and McCormick Relaxation based Algorithm for Pump Scheduling Problem ", 13th International Conference of Iranian Operations Research Society, September 2020



- 6 Fatemeh Amerehi, Farnaz Hooshmand Khaligh, S.Ali Mirhassani, "Sensor Location Problem on Water Networks under Conditional-Value-at-Risk Measure ", 16th Iranian International Industrial Engineering Conference, January 2020
- 7 S.Ali Mirhassani, Parisa Vaghfi Mohebbi, "Cuts aggregation in Benders decomposition ", 16th Iranian International Industrial Engineering Conference, January 2020
- 8 Jerico Moeyersons, Behrooz Farkiani, Bahador Bakhshi Saeskanrood, S.Ali Mirhassani, Tim Wauters, Bruno Volckaert, Filip De Turck, "Enabling Emergency Flow Prioritization in SDN Networks ", International Conference on Network and Service Management, October 2019
- 9 Mohammad Nasir Yarahmadi, S.Ali Mirhassani, Farnaz Hooshmand Khaligh, "A piecewise linear approximation – based method for portfolio optimization problem with mean, variance and skewness criteria ", 12th International Conference of Iranian Operations Research Society, May 2019
- 10 Fatemeh Amerehi, S.Ali Mirhassani, Farnaz Hooshmand Khaligh, "A Novel Integer Programming Model for Sensor Location Problem in Water Distribution Networks with Budget Constraint ", 12th International Conference of Iranian Operations Research Society, May 2019
- 11 Fatemeh Mirarab Razi, Farnaz Hooshmand Khaligh, S.Ali Mirhassani, "Efficient algorithm to solve distance-based critical node detection problem ", 49th Annual Iranian Mathematics Conference, August 2018
- 12 S.Ali Mirhassani, Milad Nazari, "Planning and management of ships fuel consumption ", The 11th International Conference of Iranian Operations Research, May 2018
- 13 Fatemeh Mirarab Razi, Farnaz Hooshmand Khaligh, S.Ali Mirhassani, "A path based approach for critical node detection problem in graphs ", 14th International Industrial Engineering Conference, February 2018
- 14 S.Ali Mirhassani, Seyedeh Faegheh Seyed Jebreili, "A MILP Model for locating wind turbines and photovoltaic panels ", 10th International conference of Iranian Operations Research Society, May 2017
- 15 Amin Yarahmadi, S.Ali Mirhassani, "Wind farm layout optimization with non-homogeneous turbines ", 4rd Iran Wind Energy Conference, July 2016
- 16 Malihe Shojaa, S.Ali Mirhassani, "Solving Bi-level MIP problem by Benders decomposition method ", 12th International Conference on Industrial Engineering, January 2016
- 17 Farnaz Hooshmand Khaligh, S.Ali Mirhassani, "Integration of scheduling and rescheduling under endogenous uncertainty ", The 8th International Conference of Iranian Operations Research Society, May 2015
- 18 S.Ali Mirhassani, Farnaz Hooshmand Khaligh, "Vehicle Routing Problem under Endogenous Uncertainty ", 11th International Industrial Engineering Conference, January 2015
- 19 Farnaz Hooshmand Khaligh, S.Ali Mirhassani, "Traveling salesman problem under endogenous uncertainty ", The 7th International Conference of Iranian Operations Research Society, May 2014
- 20 S.Ali Mirhassani, Mercedeh Dodge, "Solving Complex Problem with DNA Computing ", International Conference on Computer, Information Technology and Digital Media, February 2014
- 21 S.Ali Mirhassani, Simin Mohammadyari, "Solving FCR-VRP by Gravitational Search Algorithm ", 5th Iranian Conference on Applied Mathematics, September 2013
- 22 Samaneh Raeisi Khonche, S.Ali Mirhassani, Arsalan Rahmani, "QBPSO Based Algorithm for Solving Bi-Level Problems ", 6th International Conference of Iranian Operations Research Society, May 2013
- 23 S.Ali Mirhassani, Neda Beheshti Asl, Ehsan Allah Banifatemi, "Scheduling Multi-Product Petroleum Pipeline by Heuristic Algorithm ", 9th International Industrial Engineering Conference, January 2013
- 24 S.Ali Mirhassani, Neda Beheshti Asl, "Scheduling Multi-product Pipeline via Heuristic Method ", 4th Iranian Pipe & Pipeline Conference, September 2012
- 25 S.Ali Mirhassani, Zahra Yazdaniyan, "A Graph Base Heuristic Algorithm for Exam Timetabling Problem ", Fifth International conference of Iranian Operations Research Society (IORS2012), May 2012
- 26 S.Ali Mirhassani, Farnaz Hooshmand Khaligh, "A Hybrid Approach for CPLP with Multicommodity Flow ", the 2nd International Conference on Industrial Engineering and Operations Management, January 2011

- 27 S.Ali Mirhassani, Reza Noori, "Capacity expansion for petroleum products transformation and distribution network under uncertainty ", 6th International Industrial Engineering Conference, February 2009
- 28 S.Ali Mirhassani, "A Benders decomposition algorithm for video placement and routing problem ", 39rd Iranian Mathematics Conference, August 2008
- 29 S.Ali Mirhassani, "A MIP model for multi product pipeline scheduling ", 1st Conference of Iranian Operations Research Society, January 2008
- 30 S.Ali Mirhassani, "The Multi-product Y-shape pipeline scheduling system ", , March 2007
- 31 S.Ali Mirhassani, [en-name N/A], "Well drilling performance measurement using data envelopment analysis ", , December 2004
- 32 [en-name N/A], S.Ali Mirhassani, "From THE Data Envelopment Analysis (DEA) Technique to the development of a productivity system ", , December 2004
- 33 S.Ali Mirhassani, "Computational Accuracy and Non-Archimedean Infinitesimals in DEA using Integrated Models ", , February 2004
- 34 S.Ali Mirhassani, "Non-Archimedean Infinitesimal Epsilon Forms Or Two Phase Methods of DEA Models For Computational Accuracy ", , February 2004
- 35 S.Ali Mirhassani, "The Development of Timetables for a Single - Track Two Direction Railway ", , August 2002
- 36 S.Ali Mirhassani, "Efficiency assessment with Integrated models and general weights restrictions ", , June 2002
- 37 S.Ali Mirhassani, "A Layer Model of Measuring and Improving the Efficiency for the Abnormal Data ", , June 2002

## Taught Courses

#	Course title	Description	Headlines	Date
1	Advanced Linear Optimization 1	Modeling and solving large scale linear problem		Fall 2021
2	Nonlinear Optimization	Introduction to MIP and NLP		Fall 2021
3	Mine System Analysis	The aim is to introduce the modeling and optimization tools to students		Fall 2021
4	Stochastic Optimization	An Introduction to optimization under uncertainty		Spring 2021
5	Nonlinear Optimization	Introduction to MIP and NLP		Spring 2021
6	Nonlinear Optimization	Introduction to MIP and NLP		Fall 2020
7	Advanced Linear Optimization 1	Modeling and solving large scale linear problem		Fall 2020