

Reza Ramezani

Assistant Professor in Industrial Engineering Department

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Educational Information

Doctor of Philosophy (PhD) in Industrial Engineering, Iran University of Science & Technology (IUST), 2013.

Master of Science (M.Sc.) in Industrial Engineering, Iran University of Science & Technology (IUST), 2009.

Bachelor of Science (B.Sc.) in Industrial Engineering, Iran University of Science & Technology (IUST), 2007.

Research Interests

Applied Operations Research and Optimization

Production Planning and Scheduling

Stochastic and Robust Optimization (Linear and Nonlinear)

Competitive Systems (specially Location Problems)

Multiple Criteria Decision Making (MADM and specially MODM)

Computational Intelligence and Meta-Heuristics

Publications

- **Accepted/Published Papers**

1	R. Ramezani , M. Saidi-Mehrabad, P. Fattahi, MIP formulation and heuristics for multi-stage capacitated lot-sizing and scheduling problem with availability constraints, <i>Journal of Manufacturing Systems</i> , 2013, 32: 392–401. (ISI)
2	R. Ramezani , M. Saidi-Mehrabad, Hybrid simulated annealing and MIP-based heuristics for stochastic lot-sizing and scheduling problem in capacitated multi-stage production system, <i>Applied Mathematical Modelling</i> , 2013, 37: 5134–5147. (ISI)
3	D. Rahmani, R. Ramezani , P. Fattahi, M. Heydari, A robust optimization model for multi-product two-stage capacitated production planning under uncertainty, <i>Applied Mathematical Modelling</i> , 2013, 37(20–21): 8957–8971. (ISI)
4	R. Ramezani , M. Saidi-Mehrabad, P. Fattahi, Integrated lot-sizing and scheduling with overlapping for multi-level capacitated production system, <i>International Journal of Computer Integrated Manufacturing</i> , 2013, 26(7): 681-695. (ISI)

5	R. Ramezani , M. Saidi-Mehrabad, E. Teimoury, A mathematical model for integrating lot-sizing and scheduling problem in capacitated flow shop environments, <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 66: 347–361. (ISI)
6	R. Ramezani , M. Saidi-Mehrabad, Multi-product unrelated parallel machines scheduling problem with rework processes, <i>Scientia Iranica E</i> , 2012, 19 (6): 1887–1893. (ISI)
7	R. Ramezani , D. Rahmani, F. Barzinpour, An aggregate production planning model for two phase production systems: solving with genetic algorithm and tabu search, <i>Expert Systems with Applications</i> , 2012, 39: 1256–1263. (ISI)
8	B. Vahedi Nouri, P. Fattahi, R. Ramezani , Hybrid Firefly-Simulated Annealing Algorithm for the Flow Shop Problem with Learning Effects and Flexible Maintenance Activities, <i>International Journal of Production Research</i> , 2013, 51 (12): 3501-3515. (ISI)
9	B. Vahedi Nouri, P. Fattahi, R. Ramezani , Minimizing total flow time for the non-permutation flow shop scheduling problem with learning effects and availability constraints, <i>Journal of Manufacturing Systems</i> , 2013, 32: 167– 173. (ISI)
10	R. Ramezani , M. Saidi-Mehrabad, D. Rahmani, A. Makui, A novel mathematical programming model for posteriori ELECTRE TRI, <i>Mathematical Problem in Engineering</i> , 2012, (Accepted for Publish). (ISI)
11	M. Gorji-Ashtiani, A. Makui, R. Ramezani , A robust model for a leader–follower competitive facility location problem in a discrete space, <i>Applied Mathematical Modelling</i> , 2013, 37 (1-2): 62-71. (ISI)
12	R. Ramezani , A. Karamouzian, Comments on "Scheduling jobs on a k-stage flexible flowshop", <i>Annals of Operations Research</i> , 2009, 172(1): 459-462. (ISI)
13	D. Rahmani, R. Ramezani , M. Saidi-Mehrabad, Mathematical model for multi-objective flow shop scheduling problems with stochastic parameters: Fuzzy goal programming approach, <i>International Journal of Operational Research</i> , 2012.
14	R. Ramezani , M. Saidi-Mehrabad, Capacitated Production Planning Problem Considering the Detailed Scheduling Constraints in a Flow Shop Environment, <i>International Journal of Management Science and Engineering Management</i> , 2012, 7(4): 293-302.
15	R. Ramezani , M. Saidi-Mehrabad, D. Rahmani, Flow Shop Scheduling Problem with Missing Operations: Genetic Algorithm and Tabu Search, <i>International Journal of Applied Operational Research</i> , 2011, 1(2): 21-30. (ISC)
16	R. Ramezani , M. Gorji-Ashtiani, Sequential competitive facility location problem in a discrete planar space, <i>International Journal of Applied Operational Research</i> , 2011, 1(2): 15-20. (ISC)
17	M. Gorji-Ashtiani, A. Makui, R. Ramezani , Huff-type competitive facility location model with foresight in a discrete space, <i>Management Science Letters</i> , 2011, 1: 1-12. (ISC)
18	R. Ramezani , M.B. Aryanezhad, M. Heydari, A mathematical programming model for flow shop scheduling problems for considering just in time production, <i>International Journal of Industrial Engineering & Production Research</i> , 2010, 21(2): 97-104. (ISC)
19	M.K. Sayadi, R. Ramezani , N. Ghaffari-Nasab, A discrete firefly meta-heuristic with local search for makespan minimization in permutation flow shop scheduling problems, <i>International Journal of Industrial Engineering Computations</i> , 2010, 1: 1-10. (ISC)
20	D. Rahmani, R. Ramezani , A new robust fuzzy approach for aggregate production planning, <i>Scientia Iranica</i> , 2014, (Accepted for Publish). (ISI)
21	B. Vahedi Nouri, P. Fattahi, R. Tavakkoli-Moghaddam, R. Ramezani , Scheduling the Non-Permutation Flow Shop with Learning Effects and Machine Availability Constraints, <i>International Journal of Advanced Manufacturing Technology</i> , 2013, (Minor Revision).

- **Conferences Papers**

1	R. Ramezani, Multi-product multi-period capacitated lot-sizing and scheduling problem: Firefly algorithm, <i>2nd world conference on soft computing</i> , 2012.
2	R. Ramezani, Scheduling Non-Permutation Flow Shop Problem with machine Availability Constraints and Learning Effects: Hybrid Meta-Heuristic, <i>2nd world conference on soft computing</i> , 2012.
3	R. Ramezani, Integrated Lot-sizing and Scheduling in Permutation Flow Shop Production Environment, <i>International Conference on Nonlinear Modeling & Optimization</i> , 2012.
4	R. Ramezani, Flow Shop Scheduling Problem with Missing Operations: Using Genetic Algorithm and Tabu Search, <i>2nd International Conference on Computer and Management, China</i> , 2012.
5	R. Ramezani, A Novel Mathematical Programming Model for a <i>Posteriori</i> ELECTRE TRI Method, <i>4th International Conference of Iranian Operations Research Society</i> , 2011.
6	R. Ramezani, A Mixed Integer Linear Programming Model for Integrated Scheduling and Maintenance Problem, <i>4th International Conference of Iranian Operations Research Society</i> , 2011.
7	R. Ramezani, Sequential Competitive Facility Location Problem in a Discrete Planar Space, <i>4th International Conference of Iranian Operations Research Society</i> , 2011.
8	R. Ramezani, Non-permutation flow shop scheduling problem with uncertain parameters, <i>7th International of Industrial Engineering Conference</i> , 2010.
9	R. Ramezani, A Mathematical Programming Model for Aggregate Production-Distribution Planning in Supply Chain, <i>3rd International Conference of Iranian Operations Research Society</i> , 2010.
10	R. Ramezani, Mixed-Integer Non-linear Programming Model for Hybrid Flow Shop Scheduling Problem with Unrelated machines and Release Time, <i>3rd International Conference of Iranian Operations Research Society</i> , 2010.
11	R. Ramezani, A Robust Model for Aggregate Production Planning: Solving with Particle Swarm Optimization, <i>3rd International Conference of Iranian Operations Research Society</i> , 2010.
12	R. Ramezani, Selection of the Best Condition Based Maintenance Action using Group Fuzzy Analytical Hierarchy Process Technique, <i>5th International Conference on Maintenance</i> , 2008.
13	R. Ramezani, Mathematical model for multi-objective flow shop scheduling problem with bypass consideration and sequence-dependent setup time, <i>2nd International Conference of Iranian Operations Research Society</i> , 2010.

- **Books and Working Books**

“A complete solution to **Engineering Economy**”, Sepahan Publication, ISBN: 9789642541089, (2007)

"**Principles of Engineering Economy and Economic Analysis of Industrial Projects**" under supervision of Prof. M. Saidi-Mehrabad, Islamic Azad University – Ghazvin Branch publisher, (Under review).

5. Awards and Honors

Ranked 2nd among the Industrial Engineering Ph.D. students of the department (2013)

Ranked 3rd among the Industrial Engineering M.Sc. graduates of the department (2009)

Ranked 54th among more than 10,000 participants in M.Sc. entrance exam, (2007)

Ranked 2nd among the Industrial Engineering B.Sc. graduates of the department (2007)

Ranked 720th among more than 400,000 participants in B.Sc. entrance exam, (2007)

Academic excellence student among the Industrial Engineering B.Sc. students of the department (2005)

6. Work Experiences

Editorial member of

- Uncertain Supply Chain Management
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Reviewer member of

- Computers & Operations Research (COR)
 - Applied Mathematical Modelling (AMM)
 - Journal of Industrial Engineering Research in Production Systems
 - Journal of Optimization in Industrial Engineering (JOIE)
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Board member of Iranian Ati Composite Corporation

Dean of Industrial Engineering Department in Behshahr University affiliation of IUST

Teaching in

- K.N. Toosi University of Technology (KNTU)
 - Iran University of Science and Technology (IUST),
 - Behshahr University affiliation of IUST,
 - Islamic Azad University,
 - Payam-Nur University,
 - Mehre-Alborz University
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Involved in Project Management Group in Construction Planning Office of IUST, (2008-2013)

7. Teaching Courses

Graduate

- Statistical Methods
 - Advanced Engineering Economy
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- Sequencing and Scheduling Theory
 - Multiple Criteria Decision Making (MCDM)
 - Management Information Systems
 - Strategic Planning and Management
 - Technology Management
 - Application of Statistical Methods in Management
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Undergraduate

- Probability Theory and Application
 - Engineering Statistics
 - Operations Research (I, II)
 - Engineering Economy
 - Time and Work Study
 - Facility Planning
 - Management Information Systems (MIS)
 - Multi-Criteria Decision Making
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8. Interest Topics for Future Study and Work

Disaster Management, Humanitarian Relief Chain Management and Humanitarian Logistics

Operation Research Application in Healthcare

Reliability Theory and Application
