

Reza Ramezani

Assistant Professor in Industrial Engineering Department

K.N. Toosi University of Technology (KNTU)

E-mail: Ramezani@kntu.ac.ir or Reza.Ramezani@gmail.com

Phone: +98-21-84063360

Fax: +98-21-88674808



Educational Information

Doctor of Philosophy (PhD) in Industrial Engineering, Iran University of Science & Technology (IUST), ۲۰۱۳.

Master of Science (M.Sc.) in Industrial Engineering, Iran University of Science & Technology (IUST), ۲۰۰۹.

Bachelor of Science (B.Sc.) in Industrial Engineering, Iran University of Science & Technology (IUST), ۲۰۰۷.

Research Interests

Applied Operations Research and Optimization

Production Planning and Scheduling

Stochastic and Robust Optimization

Competitive Systems (specially Location Problems)

Multiple Criteria Decision Making (MADM and specially MODM)

Computational Intelligence and Meta-Heuristics

Publications

- *Accepted/Published Papers*

۱	R. Ramezani , A. Ezzatpanah, Modeling and solving multi-objective mixed-model assembly line balancing and worker assignment problem, <i>Computers & Industrial Engineering</i> , ۲۰۱۵, ۸۷: ۷۴-۸۰. (ISI)
۲	D. Rahmani, A. Yousefli, R. Ramezani , A new robust fuzzy approach for aggregate production planning, <i>Scientia Iranica</i> , ۲۰۱۴, ۲۱(۶): ۲۳۰۷-۲۳۱۴. (ISI)
۳	B. Vahedi Nouri, P. Fattahi, R. Tavakkoli-Moghaddam, R. Ramezani , A general flow shop scheduling problem with consideration of position based learning effect and multiple availability constraints, <i>International Journal of Advanced Manufacturing Technology</i> , ۲۰۱۴, ۷۳(۵-۸): ۶۰۱-۶۱۱. (ISI)
۴	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> , ۲۰۱۳, ۳۲(۲): ۳۹۲- ۴۰۱. (ISI)

٥	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> , ٢٠١٣, ٣٧(٧): ٥١٣٤-٥١٤٧. (ISI)
٦	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> , ٢٠١٣, 37(20-21): 8957-8971. (ISI)
٧	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> , ٢٠١٣, ٢٦(٧): ٦٨١-٦٩٥. (ISI)
٨	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> , ٢٠١٣, ٦٦(١-٤): ٣٤٧-٣٦١. (ISI)
٩	R. Ramezani , M. Saidi-Mehrabad, Multi-product unrelated parallel machines scheduling problem with rework processes, <i>Scientia Iranica E</i> , ٢٠١٢, ١٩(٦): ١٨٨٧-١٨٩٣. (ISI)
١٠	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> , ٢٠١٢, ٣٩(١): ١٢٥٦-١٢٦٣. (ISI)
١١	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> , ٢٠١٣, ٥١(١٢): ٣٥٠١-٣٥١٥. (ISI)
١٢	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> , ٢٠١٣, ٣٢(١): ١٦٧-١٧٣. (ISI)
١٣	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> , ٢٠١٣, ٣٧(١-٢): ٦٢-٧١. (ISI)
١٤	R. Ramezani , A. Karamouzian, Comments on "Scheduling jobs on a k-stage flexible flowshop", <i>Annals of Operations Research</i> , ٢٠٠٩, ١٧٢(١): ٤٥٩-٤٦٢. (ISI)
١٥	Z. Zakaryaie Nejad, A. Ezzatpanah, R. Ramezani , Using an Imperialistic Competitive Algorithm in Global Polynomials Optimization (Case Study: ١D Geometric Correction of IKONOS and SPOT Imagery), <i>Journal of Geomatics Science and Technology</i> , (Accepted for publish). (ISC)
١٦	R. Ramezani , M. Shafiei-Nikabadi, S. Fallah, Particle swarm optimization algorithm for integrated lot-sizing and scheduling in the flow shop production environment, <i>Journal of Industrial Engineering (University of Tehran)</i> ٤٨(٢): ٢١٥-٢٢٨. (ISC)
١٧	D. Rahmani, R. Ramezani , M. Saidi-Mehrabad, Multi-objective flow shop scheduling problem with stochastic parameters: fuzzy goal programming approach, <i>International Journal of Operational Research</i> , ٢٠١٤, ٢١(٣), ٣٢٢ - ٣٤٠.
١٨	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> , ٢٠١٢, ٧(٤): ٢٩٣-٣٠٢.
١٩	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> , ٢٠١١, ١(٢): ٢١-٣٠. (ISC)
٢٠	R. Ramezani , M. Gorji-Ashtiani, Sequential competitive facility location problem in a discrete planar space, <i>International Journal of Applied Operational Research</i> , ٢٠١١, ١(٢): ١٥-٢٠. (ISC)

۲۱	M. Gorji-Ashtiani, A. Makui, R. Ramezani , Huff-type competitive facility location model with foresight in a discrete space, <i>Management Science Letters</i> , ۲۰۱۱, ۱: ۱-۱۲. (ISC)
۲۲	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> , ۲۰۱۰, ۲۱(۲): ۹۷-۱۰۴. (ISC)
۲۳	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> , ۲۰۱۰, ۱: ۱-۱۰. (ISC)

• **Conferences Papers**

۱	R. Ramezani , M. Rahimi-Moghaddam, Modeling and solving of flowshop scheduling with batch delivery, <i>۱۱th International Industrial Engineering Conference</i> , ۲۰۱۰.
۲	R. Ramezani , Gh. Majidi, Integrating QFD technique and concurrent engineering in new product development strategy, based on the ۴P marketing mix model, <i>International Conference on Management Tools & Techniques</i> , ۲۰۱۰.
۳	R. Ramezani , I. Khanchezar, Performance Evaluation of Customer Relationship Management and ways to improve it, <i>International Conference on Management Tools & Techniques</i> , ۲۰۱۰.
۴	R. Ramezani , S. Ahaki, Ranking lean manufacturing tools to increase productivity by focusing on improving their waste (Case study: Iran Khodro), <i>International Conference on Business Development and Excellence Management and Economics</i> , ۲۰۱۴.
۵	R. Ramezani , F. Hashemi, Designing balance performance evaluation system of project management (PMBPAS) based on PMBOK standard by BSC model, <i>۱st International Conference on Economics, Management, Accounting and Social Sciences</i> , ۲۰۱۴.
۶	R. Ramezani , S. Azizian, The proposed overall model for the development of organizational innovation in the network organizations (with a focus on core and network structure), <i>۱st National Conference on Economics, Management and Accounting</i> , ۲۰۱۴.
۷	R. Ramezani , M. Saidi-Mehrabad, Multi-product multi-period capacitated lot-sizing and scheduling problem: Firefly algorithm, <i>۲nd world conference on soft computing</i> , ۲۰۱۲.
۸	B. Vahedi Nouri, R. Ramezani , P. Fattahi, R. Tavakkoli-Moghaddam, Scheduling Non-Permutation Flow Shop Problem with machine Availability Constraints and Learning Effects: Hybrid Meta-Heuristic, <i>۲nd world conference on soft computing</i> , ۲۰۱۲.
۹	R. Ramezani , M. Saidi-Mehrabad, Integrated Lot-sizing and Scheduling in Permutation Flow Shop Production Environment, <i>International Conference on Nonlinear Modeling & Optimization</i> , ۲۰۱۲.
۱۰	R. Ramezani , M. Saidi-Mehrabad, Flow Shop Scheduling Problem with Missing Operations: Using Genetic Algorithm and Tabu Search, <i>۲nd International Conference on Computer and Management, China</i> , ۲۰۱۲.
۱۱	R. Ramezani , A Novel Mathematical Programming Model for a <i>Posteriori</i> ELECTRE TRI Method, <i>۴th International Conference of Iranian Operations Research Society</i> , ۲۰۱۱.
۱۲	M. Saidi-Mehrabad, D. Rahmani, R. Ramezani , A Mixed Integer Linear Programming Model for Integrated Scheduling and Maintenance Problem, <i>۴th International Conference of Iranian Operations Research Society</i> , ۲۰۱۱.

۱۳	R. Ramezani , M. Gorji-Ashtiani, Sequential Competitive Facility Location Problem in a Discrete Planar Space, <i>۴th International Conference of Iranian Operations Research Society</i> , ۲۰۱۱.
۱۴	M. Saidi-Mehrabad, R. Ramezani , D. Rahmani, Non-permutation flow shop scheduling problem with uncertain parameters, <i>۶th International of Industrial Engineering Conference</i> , ۲۰۱۰.
۱۵	R. Ramezani , N. Ghaffari-Nasab, A Mathematical Programming Model for Aggregate Production-Distribution Planning in Supply Chain, <i>۳rd International Conference of Iranian Operations Research Society</i> , ۲۰۱۰.
۱۶	R. Ramezani , M. Saidi-Mehrabad, D. Rahmani, Mixed-Integer Non-linear Programming Model for Hybrid Flow Shop Scheduling Problem with Unrelated machines and Release Time, <i>۳rd International Conference of Iranian Operations Research Society</i> , ۲۰۱۰.
۱۷	F. Barzinpour, D. Rahmani, R. Ramezani , A Robust Model for Aggregate Production Planning: Solving with Particle Swarm Optimization, <i>۳rd International Conference of Iranian Operations Research Society</i> , ۲۰۱۰.
۱۸	R. Ramezani , K. Shahanaghi, Selection of the Best Condition Based Maintenance Action using Group Fuzzy Analytical Hierarchy Process Technique, <i>۳th International Conference on Maintenance</i> , ۲۰۰۸.
۱۹	R. Ramezani , M.B.G. Aryanezhad, Mathematical model for multi-objective flow shop scheduling problem with bypass consideration and sequence-dependent setup time, <i>۳rd International Conference of Iranian Operations Research Society</i> , ۲۰۱۰.

- **Books**

“A complete solution to **Engineering Economy**”, Sepahan Publication, ISBN: ۹۷۸۹۶۴۲۵۴۱۰۸۹, (۲۰۰۷)

"**Principles of Engineering Economy and Economic Analysis of Industrial Projects**", Islamic Azad University – Publisher, ISBN: ۹۷۸-۹۶۴-۱۰-۳۲۹۲-۳, (۲۰۱۵).

Awards and Honors

Ranked ۳rd among the Industrial Engineering Ph.D. students of the department (۲۰۱۳)

Ranked ۳rd among the Industrial Engineering M.Sc. graduates of the department (۲۰۰۹)

Ranked ۵th among more than ۱۰,۰۰۰ participants in M.Sc. entrance exam, (۲۰۰۷)

Ranked ۳rd among the Industrial Engineering B.Sc. graduates of the department (۲۰۰۷)

Ranked ۷۲th among more than ۴۰۰,۰۰۰ participants in B.Sc. entrance exam, (۲۰۰۷)

Academic excellence student among the Industrial Engineering B.Sc. students of the department (۲۰۰۵)

Work Experiences and Practical Projects

Dean of Socio-Economic Systems Engineering in Industrial Engineering Department in K.N. Toosi University of Technology (KNTU)

Editorial member of

- Uncertain Supply Chain Management
-

Reviewer member of

- Computers & Operations Research (COR)
 - Computers & Industrial Engineering (CIE)
 - Applied Mathematical Modelling (AMM)
 - Journal of Industrial Engineering Research in Production Systems
 - Journal of Optimization in Industrial Engineering (JOIE)
 - ...
-

Board member of Iranian Ati Composite Corporation

Dean of Industrial Engineering Department in Behshahr University affiliation of IUST

Project Manager in the project "Design of integrated web-based system for evaluating and ranking of contractors in Organization of Tehran Beautification"

Head of industrial engineering team and consultant in the project "Design and implementation of maintenance intelligent management system for Tehran"

Head of industrial engineering team and consultant in the project "Design and implementation of automated system for permanent monitoring of the reliability and depression maintenance management in Mahshahr Petrochemical Special Economic Zone"

Head of industrial engineering team and consultant in the project " Study, development and implementation of a comprehensive system of automated workflow and project management in Technical and Civil Engineering Deputyship of Tehran Municipality"

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
-

Involved in Project Management Group in Construction Planning Office of IUST, (۲۰۰۸-۲۰۱۳)

Teaching Courses

Graduate

- Stochastic Optimization
 - Advanced Production Planning
 - Sequencing and Scheduling Theory
 - Advanced Engineering Economy
 - Multiple Criteria Decision Making (MCDM)
 - Strategic Planning and Management
 - Application of Statistical Methods in Management
-

Undergraduate

- Production Planning
 - Probability Theory and Engineering Statistics
 - Operations Research (I, II)
 - Engineering Economy
 - Time and Work Study
 - Facility Planning
 - Decision Analysis
-

Interest Topics for Future Study and Work

Disaster Management, Humanitarian Relief Chain Management and Humanitarian Logistics

Operation Research Application in Healthcare and Energy Management

Reliability Theory and Application
