Curriculum Vitae

Hadi Mokhtari, PhD

Assistant Professor of Industrial Engineering, Faculty of Engineering, University of Kashan, Kashan, Ravand Blvd. P.O. Box 51167-87317, Iran.

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Professional Experiences

Fields of Specialization

- Scheduling Theory
- Logistics and Supply Chain Planning
- Production and Operations Management
- Manufacturing Systems

Research Interests

- Coordination and Integration Issues in Supply Chain
- Joint Production and Routing Scheduling
- Applied Mathematical Programming and Decision Theory
- Integer Programming
- Bio and Nature Inspired Algorithms
- Computational and Intelligent Optimization

Academic Background

Ph.D. in Industrial Engineering

Tarbiat Modares University, Tehran, Iran 2009 - 2013

Ph.D. Thesis: "Coordination in Operational Supply Chain: Mathematical Programming and Solution Algorithms", Supervisor: Professor Nakhai Kamal Abadi GPA 19.02 / 20

M. Sc. in Industrial Engineering

K.N. Toosi University of Technology, Tehran, Iran
2006 - 2008
M. Sc. Dissertation: "Stochastic Time-Cost Tradeoff Analysis in PERT Networks"

GPA 17.37 / 20

B. Sc. in Industrial Engineering

K.N. Toosi University of Technology, Tehran, Iran2002 - 2004B. Sc. Project: "Feasibility Study of Steel Plant Construction"GPA 17.10 / 20

Achievements and Honors

- Ranked First B.Sc. in the Industrial Engineering department, K.N. Toosi University of Technology, Iran, 2005.
- Ranked First in Ph.D. examination among all students at Industrial Engineering department, Tarbiat Modares University, Iran, 2011.
- Ranked First Ph.D. in the Industrial Engineering department, Tarbiat Modares University, Iran, 2012.
- Member of Iranian National Elites Foundation
- Member of Young Researchers Club

Journal Papers

- Fallahi, A., Mousavian Anaraki, S. A., Mokhtari, H., & Niaki, S. T. A. (2024). Blood plasma supply chain planning to respond COVID-19 pandemic: a case study. Environment, Development and Sustainability, 26(1), 1965-2016.
- Salmasnia, A., & Mokhtari, H. (2023). Pareto efficient correlated multi-response optimisation by considering customer satisfaction. International Journal of Quality Engineering and Technology, 9(1), 34-74.
- Ghandibidgoli, S., & Mokhtari, H. (2022). Automatic Control and Guidance of Mobile Robot using Machine Learning Methods. Journal of AI and Data Mining, 10(3), 385-400.
- Mokhtari, H., Salmasnia, A., & Fallahi, A. (2022). Economic production quantity under possible substitution: A scenario analysis approach. International Journal of Industrial Engineering, 33(1), 1-17.
- Asadkhani, J., Fallahi, A., & Mokhtari, H. (2022). A sustainable supply chain under VMI-CS agreement with withdrawal policies for imperfect items. Journal of Cleaner Production, 376, 134098.
- Asadkhani, J., Mokhtari, H., & Tahmasebpoor, S. (2022). Optimal lot-sizing under learning effect in inspection errors with different types of imperfect quality items. Operational Research, 22(3), 2631-2665.
- **H. Mokhtari** and A. Salmasnia "A Monte Carlo Simulation based Chaotic Differential Evolution Algorithm for Scheduling a Stochastic Parallel Processor System", Accepted by journal of "Expert Systems with Applications", Database: Elsevier (<u>ISI-indexed</u>).
- **H. Mokhtari** and M. Dadgar "Scheduling Optimization of a Stochastic Flexible Job-Shop System with Time-Varying Machine Failure Rate", Accepted by journal of "*Computers & Operations Research*", Database: Elsevier (<u>ISI-indexed</u>).
- H. Mokhtari "Designing an Efficient Bi-Criteria Iterated Greedy Heuristic for Simultaneous Order Scheduling and Resource Allocation: Balance between Cost and Lateness Measures", Accepted by Journal of "*Neural Computing and Applications*", Database: Springer (<u>ISI-indexed</u>).
- K. Shahanaghi, H. Shah-Moradi, A. Noroozi and H. Mokhtari "A Robust Modeling and Optimization Framework for a Batch Processing Flow Shop Production System in the Presence of Uncertainties", Accepted by Journal of "International Journal of Computer Integrated Manufacturing", Database: Taylor & Francis (ISI-indexed).
- Y.Z. Mehrjerdi, A. Yazdekhasti, A. Salmasnia, and H. Mokhtari "A Desirability Functionbased Approach for Optimizing Generalized Queuing Networks", Accepted by "International Journal of Applied Management Science", Database: Inderscience (Scopus-indexed).

- A. Noroozi and H. Mokhtari "Scheduling of Printed Circuit Board (PCB) Assembly Systems with Heterogeneous Processors Using Simulation based Intelligent Optimization Methods", Accepted by "Neural Computing and Applications", Database: Springer (ISI-indexed).
- H. Mokhtari "A Nature Inspired Intelligent Water Drops Evolutionary Algorithm for Parallel Processor Scheduling with Rejection", Accepted by Journal of "Applied Soft Computing", Database: Elsevier (ISI-indexed).
- H. Mokhtari "A Two Stage No-Wait Job Shop Scheduling Problem by using a Neuro-Evolutionary Variable Neighborhood Search", Accepted by "International Journal of Advanced Manufacturing Technology", Database: Springer (ISI-indexed).
- Mokhtari, H. and I. Nakhai Kamalabadi, "Scheduling with an Outsourcing Option on Both Manufacturer and Subcontractors", Accepted by "Computers & Operations Research", Elsevier (ISI-indexed).
- Salmasnia, A. Moeini, H. Mokhtari, and C. Mohebbi, "A Robust Posterior Preference Decision Making Approach to Multiple Response Process Design", Accepted by "International Journal of Applied Decision Sciences", Database: Indersciences.
- Noroozi, H. Mokhtari and I. Nakhai Kamalabadi, "Research on computational intelligence algorithms with adaptive learning approach for scheduling problems with batch processing machines", Accepted by journal of "*Neurocomputing*", Database: Elsevier (<u>ISI-indexed</u>).
- Naimi Sadigh, H. Mokhtari, M. Iranpoor, S.M.T. Fatemi Ghomi, "Cardinality Constrained Portfolio Optimization Using a Hybrid Approach based on Particle Swarm Optimization and Hopfield Neural Network", Accepted by the journal of "Advanced Science Letters" (ISIindexed).
- **H. Mokhtari**, A. Salmasnia and M. Bastan "Three Dimensional Time, Cost and Quality Tradeoff Optimization in Project Decision Making", Accepted by the Journal of "*Advanced Materials Research*", 2012.
- Keramati, F., H. Mokhtari., & Fallahi, A. (2022). Joint decisions on inventory classi7ication, supplier selection and production policy for a multi-item EPQ inventory system under uncertainty. Journal of Quality Engineering and Production Optimization, 7(2), 186-204.
- Ghadiri Sufi, E., Soltani-Mohammadi, S., & **H. Mokhtari**. (2022). Optimizing the exploratory drilling rig route based on the multi-objective multiple traveling salesman problem. International Journal of Mining and Geo-Engineering, 56(4), 331-337.
- Fallahi, A., H. Mokhtari & Niaki, S. T. A. (2021). Designing a closed-loop blood supply chain network considering transportation flow and quality aspects. Sustainable operations and computers, 2, 170-189.
- H. Mokhtari., Hasani, A., & Fallahi, A. (2021). Multi-product constrained economic production quantity models for imperfect quality items with rework. International Journal of Industiral Engineering & Producion Research, 32 (2), 1-23.
- **H. Mokhtari**., Hasani, A., & Dehnavi-Arani, S. (2021). Single and multi-stage manufacturing systems under imperfect quality items with random defective rate, rework and scrap. Scientia Iranica.
- Fallahi, A., Azimi-Dastgerdi, M., & H. Mokhtari. (2021). A sustainable production-inventory model joint with preventive maintenance and multiple shipments for imperfect quality items. Scientia Iranica.
- Hasani, A., H. Mokhtari, & Fattahi, M. (2021). A multi-objective optimization approach for green and resilient supply chain network design: a real-life Case Study. Journal of Cleaner Production, 278, 123199.
- H. Mokhtari, Salmasnia, A., & Asadkhani, J. (2020). A New Production-Inventory Planning Model for Joint Growing and Deteriorating Items. International Journal of Supply and Operations Management, 7(1), 1-16.

- **H. Mokhtari** and J Asadkhani. (2020). "Extended economic production quantity models with preventive maintenance." Scientia Iranica 27, 3253-3264.
- Bakhshandeh Amnieh, H., Hakimiyan Bidgoli, M., H. Mokhtari., & Aghajani Bazzazi, A. (2019). Application of simulated annealing for optimization of blasting costs due to air overpressure constraints in open-pit mines. Journal of Mining and Environment, 10(4), 903-916.
- **H. Mokhtari** (2019). Optimal lot size in a manufacturing system with imperfect raw materials and defective 7inished products. Scientia Iranica, 26(4), 2561-2578.
- A. Salmasnia, M. Noori and **H. Mokhtari** (2018) "A multi-objective competitive location problem under queuing framework", Accepted by "International Journal of Systems Assurance Engineering and Management", (ESCI-indexed).
- A. Hasani and **H. Mokhtari**, (2019) "An Integrated Relief Network Design Model under Uncertainty: A Case of Iran" Accepted by "Safety Science", Elsevier, (ISI-indexed).
- H. Mokhtari S Kiani, S.S. Tahmasebpoor (2020) "Economic Evaluation of Investment Projects Under Uncertainty: A Probability Theory Perspective", Accepted by "Scientia Iranica", (ISI- indexed).
- H. Mokhtari (2018) "Joint Ordering and Reuse Policy for Reusable Items Inventory Management", Accepted by "Sustainable Production and Consumption", Elsevier, (ESCI-indexed).
- A. Cheraghalikhani, F. Khoshalhan and H. Mokhtari (2019) "Aggregate Production Planning: A Literature Review and Future Research Directions", Accepted by "International Journal of Industrial Engineering Computations", (Scopus & ISC indexed).
- **H. Mokhtari** (2018) "Economic Order Quantity for Joint Complementary and Substitutable Items", Accepted by "Mathematics and Computers in Simulation", Elsevier, (ISI-indexed).
- A. Salmasnia, M. Moosavi and H. Mokhtari (2018) "A multi-objective competitive location problem under queuing framework", Accepted by "International Journal of Supply and Operations Management", (ISC-indexed).
- **H. Mokhtari** (2019) "Optimal Lot Size in a Manufacturing System with Imperfect Raw Materials and Defective Finished Products", Accepted by "Scientia Iranica", (ISI-indexed).
- A. Salmasnia, H. Daliri, A. Ghorbanian and H. Mokhtari (2018) "A Statistical Analysis and Simulation
- based Approach to an Uncertain Supplier Selection Problem with Discount Option", Accepted by "International Journal of System Assurance Engineering and Management", Springer, (ESCI- indexed).
- H. Mokhtari, "Adapting a Heuristic Oriented Methodology for Achieving Minimum Number of Late Jobs with Identical Processing Machines", Accepted by the "Research Journal of Applied Science, Engineering and Technology" (ISI-indexed).
- A. Noroozi, H. Mokhtari and I. Nakhai Kamalabadi, "A Genetic Programming Guided Search Designed for Production Scheduling when Batch Processing Machines are Available", Accepted by the Journal of "Advanced Science Letters" (ISI-indexed).
- H. Mokhtari, A. Mozdgir, and I. Nakhai Kamalabadi, "A Reliability/Availability Approach to Joint Production and Maintenance Scheduling with Multiple Preventive Maintenance Services", Accepted by the "*International Journal of Production Research*", Database: Taylor & Francis (<u>ISI-indexed</u>).
- H. Mokhtari, I. Nakhai Kamalabadi and M.R. Amin-Naseri, "Production Scheduling with Outsourcing Scenarios: A Mixed Integer Programming and Efficient Solution Procedure", Accepted by the "International Journal of Production Research", Database: Taylor & Francis (ISI-indexed).
- A. Salmasnia, H. Mokhtari, and I. Nakhai Kamalabadi, "A robust scheduling of projects with time, cost and quality considerations", Accepted by the "International Journal of Advanced Manufacturing Technology", Database: Springer (ISI-indexed).

- H. Mokhtari, I. Nakhai Kamalabadi, and S.H. Zegordi, "Production capacity planning and scheduling in a no-wait environment with controllable processing times: An integrated modeling approach", Accepted by the journal of "*Expert Systems with Applications*", 2011, Database: Elsevier (<u>ISI-indexed</u>).
- H. Mokhtari, I. Nakhai Kamalabadi, and A. Cheraghalikhani, "A multi-objective flow shop scheduling with resource-dependent processing times: Trade-off between makespan and cost of resources", Accepted by the "International Journal of Production Research", 2010, Database: Taylor & Francis (<u>ISI-indexed</u>).
- H. Mokhtari, R.B. Kazemzadeh, and A. Salmasnia, "Time-cost trade-off analysis in project management: An ant system approach", Accepted by Journal of "*IEEE Transactions on Engineering Management*", 2010, Database: IEEE (<u>ISI-indexed</u>).
- **H. Mokhtari**, A. Aghaie, J. Rahimi, and A. Mozdgir, "Project time-cost trade-off scheduling: a hybrid optimization approach", Accepted by the "*International Journal of Advanced Manufacturing Technology*", 2010, Database: Springer (<u>ISI-indexed</u>).
- **H. Mokhtari**, and A. Aghaie, "The effect of price discount on time-cost trade off problem using genetic algorithm", Accepted by the "*Engineering Journal*", 2009, Database: Scientific Research Publishing Journals, USA.
- Aghaie, and H. Mokhtari, "Ant colony optimization algorithm for stochastic project crashing problem in PERT networks using MC simulation", Accepted by the "International Journal of Advanced Manufacturing Technology", 2009, Database: Springer (ISI-indexed).
- M.R. Amin-Naseri, H. Mokhtari and I. Nakhai Kamalabadi. "A Hybrid Algorithm for Price Discount Based Project Scheduling with Parameter Setting by Using Stepwise Regression", (in Farsi) Published by "International Journal of Industrial Engineering and Production Management", 2012.
- H. Mokhtari, I. Nakhai Kamalabadi and S.H. Zegordi, "Upper Bound and Heuristic Solution Algorithm for Order Scheduling Problem with Machines Idle Time Minimization", (in Farsi) Accepted by journal of "*Production and Operations Management*", 2012.
- H. Mokhtari, I. Nakhai Kamalabadi and M.R. Amin-Naseri, "Modeling and Analytical Solution of Integrated Scheduling and Capacity Planning Problem: Design of a Neighborhood Search Algorithm Based on Lower Bounds and Branch & Bound Approach", (in Farsi) Accepted by "International Journal of Industrial Engineering and Production Management", 2012.
- M.R. Peyghami, A. Aghaie, and H. Mokhtari, "A New Mathematical Approach based on Conic Quadratic Programming for the Stochastic Time-Cost Tradeoff Problem in Project Management", Accepted by the "International Journal of Industrial Engineering and Production Research", 2012.