

VAHID HAJIPOUR

ASSISTANT PROFESSOR OF INDUSTRIAL ENGINEERING

TWO BOOKS AND MORE THAN 60 PAPERS WITH 831 CITATIONS

+12 YEARS OF EXPERIENCE IN INDUSTRIES & +13 YEARS OF EXPERIENCE IN TEACHING

PERSONAL INFORMATION

Date of Birth: 21 September, 1986
Home Address: No. 8, Dashtestan 3, Pardis City, Tehran, IRAN, 1659138886.
Work Address: Ashrafi Esfahani Highway, Faculty of Engineering, West Tehran Branch, Azad University, Tehran, IRAN
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Websites: [Home Page](#) [Google Scholar](#) [ORCID](#) [ResearchGate](#)
Skype: vhajipour

ACADEMIC EXPERIENCES

- Sept. 2016 – Now **Assistant Professor (tenured)**
Department of Industrial Engineering, Azad University, Tehran, IRAN
- Courses: Facilities Planning, Combinational Optimization, Simulation Modelling, Queuing Theory, Research Methodology, and Fuzzy Sets Theory.
- Feb. 2016 – Now **Visiting Lecturer**
Department of Industrial Engineering, Kharazmi University, Tehran, IRAN
- Courses: Supply Chain Network Design, Supply Chain Network Design, Logistic Systems Analysis and Design, and Supply Chain Configuration.
- Feb. 2016 – Sept. 2018 **Visiting Lecturer**
Department of Industrial Engineering, Alzahra University, Tehran, IRAN
- Courses: Facilities Planning and Simulation Modelling.
- Feb. 2013 – Feb. 2016 **Teaching Fellow**
Department of Industrial Engineering, Bu Ali Sina University, Hamadan, IRAN
- Courses: Simulation Modelling and Inventory Planning.
- Sept. 2012 – Sept. 2013 **Teaching Fellow**
Department of Industrial Engineering, Azad University, Qazvin, IRAN
- Courses: Facilities Planning, Decision Analysis, and Production Planning.
- Feb. 2011 – Sept. 2012 **Graduate Research Assistant**
Department of Industrial Engineering, Azad University, Qazvin, IRAN
- Courses: Computational Intelligence and Fuzzy Sets Theory.
- Feb. 2007 – Feb. 2011 **Graduate Teaching Assistant**
Department of Industrial Engineering, Azad University, Qazvin, IRAN
- Courses: Operations Research, Probability Theory, Statistical Engineering, and Inventory Control and Planning.

JOB EXPERIENCES

- Jun. 2019 – Now **Head of Research Center**
FANAP Co., Tehran, IRAN
- Dec. 2014 – Jun. 2020 **Business Analyst**
FANAP Co., Tehran, IRAN

- ERP total solution development to be deployed for MIDHCO Holding in mining industry.
- Business analysis for the interaction between 36 modules and 211 processes
- Product Owner of Safety System, Environment System, Quality Control System, and Performance Management System.

Mar. 2010 – Dec. 2014

Quality Planning Representative*MillangSazan Co., Tehran, IRAN*

- Survey plan approval from Peugeot, French automotive manufacturer for producing crankshaft.

Dec. 2008 – Dec. 2009

Production Planner*Tehran ARNEG Co., Qazvin, IRAN*

- MRP-II implementation for production and operation management

EDUCATIONS

June 2019 – October 2020

Post Doctorial of Industrial Engineering*Sharif University of Technology, Tehran, IRAN* [Link](#)

- Project: Healthcare Sustainable Chain Network Design
- Advisers: Prof. Niaki

Sept. 2012 – Apr. 2016

Ph.D. of Industrial Engineering*Bu-Ali Sina University, Hamadan, IRAN* [Link](#)

- Dissertation: Optimization of Reliable Restricted Facility Location Problems
- Advisers: Drs. Fattahi & Zanjirani Farahani
- GPA: 18.05 out of 20 [Ranked 1 among 3 graduates]

Sept. 2009 – Sept. 2011

M.Sc. of Industrial Engineering*Azad University, Qazvin, IRAN* [Link](#)

- Thesis: Multi-objective Facility Location Problem with Different Queue Rules
- Advisers: Drs. Pasandideh & Seifbarghy & Niaki
- GPA: 19.37 out of 20 [Ranked 1 among 37 graduates]

Sept. 2005 – Feb. 2009

B.Sc. of Industrial Engineering*Azad University, Qazvin, IRAN* [Link](#)

- Thesis: A Feasibility Study in Crankshaft Manufacturing
- Adviser: Dr. Mehdizadeh
- GPA: 17.87 out of 20 [Ranked 2 among 91 graduates]

VISITING POSITIONS

Jun. 2015 – Aug. 2015

Researcher*Kingeston University London, Surrey, England*

- Joint Research on Supply Chain Risk Management
- Managed by Dr. Reza Zanjirani Farahani

RESEARCH INTEREST

- **Management Science/ Operations Research/ Operations Management**: Supply Chain management; Sustainability; Facility Location; Healthcare operations; Disaster and risk management.
- **Techniques**: Mathematical modeling; Exact methods; Heuristics and Meta-heuristics; Stochastic Process (Markov chains, queuing theory, etc.); Graph theory and network models; Game theory; Risk and uncertainty; Data-driven optimization/ Modeling; Uncertainty Techniques.

AWARDS AND HONORS

- Dec. 2019 **Distinguished Researcher Award**
- Azad University, West Tehran Branch, IRAN.
- May 2018 **Certificate of Outstanding Contributions in Reviewing**
- *Measurement*
- Oct. 2017 **Certificate of Excellence Reviewing**
- *European Journal of Operational Research (EJOR)*
- Oct. 2017 **Certificate of Outstanding Contributions in Reviewing**
- *Computers and Operations Research (COR)*
- Aug. 2017 **Certificate of Excellence Reviewing**
- *Simulation Modelling Practice and Theory (SMPT)*
- Mar. 2017 **Certificate of Excellence Reviewing**
- *Computers and Operations Research (COR)*
- Dec. 2016 **Distinguished Researcher Award**
- Azad University, West Tehran Branch, IRAN.
- Sept. 2016 **Distinguished Researcher Award**
- Bu Ali University, Hamadan, IRAN.
- Aug. 2016 **Certificate of Excellence Reviewing**
- *Computers and Industrial Engineering (CAIE)*
- Apr. 2016 **Top Ph.D. Graduate**
- Ranked 1st among three PhD of Industrial Engineering Students
 - Bu Ali Sina University, Hamadan, IRAN.
- Nov. 2015 **Certificate of Excellence Reviewing**
- *International Journal of Electrical Power and Energy Systems (IJEPES)*
- Nov. 2011 **Distinguished Young Researcher and NODET Award**
- Azad University, Qazvin, IRAN.
- Nov. 2012 **Distinguished Young Researcher and NODET Award**
- Azad University, Qazvin, IRAN.
- Nov. 2014 **Distinguished Young Researcher and NODET Award**
- Azad University, Qazvin, IRAN.
- Aug. 2014 **Certificate of Excellence Reviewing**
- *Applied Soft Computing Journal (ASOC)*
- Sept. 2011 **Top M.Sc. Graduate**
- Ranked 1st among 37 Master of Industrial Engineering Students
 - Azad University, Qazvin, IRAN.
- Feb. 2009 **Top B.Sc. Graduate**

- Ranked 2nd among the Bachelor of Industrial Engineering Students
- Azad University, Qazvin, IRAN.

SELECTED JOURNAL PUBLICATIONS

ABS / AJG2018 3*

1. Zaretalab A., **Hajipour V.**, Tavana M., "Redundancy Allocation Problem with Multi-State Component Systems and Reliable Supplier Selection", *Reliability Engineering and System Safety*, Vol. 193, 106629, 2020. [Link](#)
2. **Hajipour V.**, Zanjirani Farahani R., Fattahi P., "Bi-objective Vibration Damping Optimization for Congested Location-pricing Problem", *Computers & Operations Research*, Vol. 70, pp. 87-100, **2016**. [Link](#)
3. **Hajipour V.**, Khodakarami V., Tavana M., "The Redundancy Queuing-Location-Allocation Problem: A Novel Approach", *IEEE Transactions on Engineering Management*, Vol. 61, No. 3, pp. 534-544, **2014**. [Link](#)

ABS / AJG2018 2*

4. Tavakkoli-Moghaddam R., Noshafagh S.V., Taleizadeh A.A., **Hajipour V.**, Mahmoudi A., "Pricing and Location Decisions in Multi-objective Facility Location Problem with M/M/m/k Queuing Systems", *Engineering Optimization*, Vol. 49(1), pp. 136-160, **2017**. [Link](#)
5. Zaretalab A., **Hajipour V.**, Sharifi M., Shahriari M.R., "A Knowledge-based Archive Multi-objective Simulated Annealing Algorithm to Optimize Series-parallel System with Choice of Redundancy Strategies", *Computers and Industrial Engineering*, Vol. 80, pp. 33-44, **2015**. [Link](#)
6. **Hajipour V.**, Rahmati S.H.A., Pasandideh S.H.R., Niaki S.T.A., "A Multi-Objective Harmony Search Algorithm to Optimize Multi-Server Location-Allocation Problem in Congested Systems", *Computers and Industrial Engineering*, Vol. 72, pp. 187-197, **2014**. [Link](#)

ABS / AJG2018 1*

7. Nobari A., Kheirkhah A.S., **Hajipour V.**, "A Pareto-based Approach to Optimize Reliable Aggregate Production Planning Problem", *International Journal of Services and Operations Management*, Vol. 29(1), pp. 59-84, **2018**. [Link](#)
8. Pasandideh S.H.R., Niaki S.T.A., **Hajipour V.**, "A Multi-Objective Facility Location Model with Batch Arrivals: Two Parametric-Tuned Meta-heuristic Algorithms", *Journal of Intelligent Manufacturing*, Vol. 24, pp. 331-348, **2013**. [Link](#)

Others (ABS / AJG2018 -*)

9. **Hajipour V.**, Tavana M., Di Caprio D., Jabbari Y., Akhgar M., "An Optimization Model for Traceable Closed-Loop Supply Chain Networks", *Applied Mathematical Modelling*, Vol. 71, pp. 673-699, **2019**. [Link](#)
10. Alaghebandha M., **Hajipour V.**, Hemmati M., "Optimizing Multi-Objective Sequencing Problem in Mixed-Model Assembly Line on Just-in-time: A Particle Swarm Optimization Algorithm", *International Journal of Management Science and Engineering Management*, Vol. 12(4), pp. 288-298, **2017**. [Link](#)
11. **Hajipour V.**, Fattahi P., Tavana M., Di Caprio D. "Multi-Objective Multi-Layer Congested Facility Location-Allocation Problem Optimization with Pareto-based Meta-heuristics", *Applied Mathematical Modelling*, Vol. 40, Issues 7-8, pp. 4948-4969, **2016**. [Link](#)
12. Mehdizadeh E., **Hajipour V.**, Mohammadzadeh M.R., "A bi-objective multi-item capacitated lot-sizing model: Two Pareto-based meta-heuristic algorithms", *International Journal of Management Science and Engineering Management*, Vol. 11(4), pp. 279-293, **2016**. [Link](#)
13. **Hajipour V.**, Kheirkhah A.S., Tavana M., Absi N., "Novel Pareto-based Meta-heuristics for Solving Multi-objective Multi-item Capacitated Lot-sizing Problems", *International Journal of Advanced Manufacturing Technology*, Vol. 80, pp. 31-45, **2015**. [Link](#)
14. Fattahi P., **Hajipour V.**, Nobari A., "A Bi-objective Continuous Review Inventory Control Model: Pareto-based Meta-heuristic Algorithms", *Applied Soft Computing*, Vol. 32, pp. 211-223, **2015**. [Link](#)
15. Alaghebandha M., **Hajipour V.**, "A Soft Computing-based Approach to Optimize Queuing-Inventory Control Problem", *International Journal of System Science*, Vol. 46, No. 6, **2015**. [Link](#)

16. Mousavi M., **Hajipour V.**, Niaki S.T.A., Aalikar N., "A multi-product multi-period inventory control problem under inflation and discount: a parameter-tuned particle swarm optimization algorithm", *International Journal of Advanced Manufacturing Technology*, Vol. 70, pp. 1739-1756, **2014**. [Link](#)
17. **Hajipour V.**, Mehdizadeh E., Tavakkoli-Moghaddam R., "A Novel Pareto-based Multi-objective Vibration Damping Optimization Algorithm to Solve Multi-objective Optimization Problems", *Scientia Iranica: Transaction E*, Vol. 21, No. 6, pp. 2368-2378, **2014**. [Link](#)
18. Hatami-Marbini A., Tavana M., **Hajipour V.**, Kangi F., Kazemi A., "An Extended Compromise Ratio Method for Fuzzy Multi-Attribute Group Decision Making Problem with SWOT Analysis", *Applied Soft Computing*, Vol. 13, No. 8, 3459-3472, **2013**. [Link](#)
19. **Hajipour V.**, Kazemi A., Mousavi M., "A Fuzzy Expert System to Increase Accuracy and Precision in Measurement System Analysis", *Measurement*, Vol. 46, No. 8, 2770-2780, **2013**. [Link](#)
20. Rahmati S.H.A., **Hajipour V.**, Niaki S.T.A., "A Soft-computing Pareto-based Meta-Heuristic Algorithm for a Multi-Objective Multi-Server Facility Location Problem", *Applied Soft Computing*, 13, 1728–1740, **2013**. [Link](#)
21. Mousavi M., **Hajipour V.**, Niaki S.T.A., Aalikar N., "Optimizing Multi-item Multi-period Inventory Control System with Discounted Cash Flow and Inflation Approaches: Two Calibrated Meta-heuristic Algorithms", *Applied Mathematical Modelling*, Vol. 37, No. 4, pp. 2241-2256, **2013**. [Link](#)

SELECTED CONFERENCE PAPERS

1. Asgari N., **Hajipour V.**, Zanjirani Farahani R., Hill A. "Supply Chain Risks in Operations Management: A Review of Empirical Research", *Production and Operations Management Society (POMS) International Conference*, Granada, Spain, October 2018. [Link](#)
2. **Hajipour V.**, Salimian S. "Location and Inventory Decisions in Healthcare Systems Optimization in Crisis", In Proceeding of *11th International Conference on Operations Research*, Kermanshah, Iran, 2-3 May 2018. [Link](#)
3. Fattahi P., **Hajipour V.**, "Optimizing Reliable Network Location Problem for Congested Facilities", In Proceeding of *10th International Industrial Engineering Conference*, Tehran, Iran, 27-28 January 2014. [Link](#)
4. **Hajipour V.**, Noshafagh S.V., Tavakkoli-Moghaddam R., "A Novel Pareto-Based Meta-Heuristic Algorithm to Optimize Multi-Facility Location-Allocation Problem", *World Academy of Science, Engineering and Technology*, 79, In Proceeding of *International Conference on Industrial and Information Engineering*, Stockholm, 833-836, **2013**. [Link](#)
5. Chambari A.H., Rahmaty S.H., **Hajipour V.**, Karimi A., "A Bi-Objective Model for Location-Allocation Problem within Queuing Framework", *World Academy of Science, Engineering and Technology*, 78, In Proceedings of *International Conference on Industrial and Mechanical Engineering*, Amsterdam, pp. 138 – 145, 2011. [Link](#)

BOOKS

1. **Hajipour V.**, Nobari A., Hosseinzadeh S. "Optimization of Metaheuristics" (In Farsi)", Alzahra University Publishing, In Press.
2. Fattahi P., **Hajipour V.**, Nobari A., "Joint Optimization of Maintenance and Production Policies" (In Farsi)", Bu-Ali University Publishing, 2016.

RESEARCH PROJECTS

- A Fuzzy Expert System for Measurement System Analysis, *IAU*, Iran (Dec. 2014)
- Optimizing Multi-objective Location-Pricing-Queuing problems, *IAU*, Iran (Oct. 2014)
- Optimizing Multi-layer Congested Facility Location Problem: A Simulation Approach, *IAU*, Iran (Sep. 2014)
- A Novel Approach to Analyze Cost of Quality, Executer, *Young Researchers Club*, Iran (Sep. 2012)

TECHNICAL JOB PROJECTS

- ERP Solution, Fanap Co., Iran (Dec. 2014-Sep. 2017)
- Robotic Requirements of Industry Branches, Industrial State Company, Iran (Sep. 2013-May 2014)
- Feasibility Study Projects, Tehran Industrial State Company, Iran (May 2012-Feb. 2013)

- Energy Structure Improvement Projects, Industrial State Company, Iran (May 2011-May 2012)
- Survey Plan of TU5 Crankshaft Peugeot 206 from PSA Co. MLS Co., Iran (Oct. 2010-May 2011)
- Strategic Management by SWOT Analysis, IRIB, Iran (Sep. 2010- Oct. 2010)
- ISO 9001:2008 Implementation, Culture Office, Iran (Nov. 2009-Sep. 2010)
- MRP-II System Analysis, Sepehr Electric Co., Iran (Dec. 2008- Nov. 2009)
- Maintenance System Analysis, Nikan Khodro Co., Iran (May 2008-Dec. 2008)
- Sustainability Analysis, Erish Khodro Co., Iran (Sept. 2007-May 2008)

CERTIFICATES

- **HSE-MS: 2010 Certification**, IMQ Academy (Dec. 2015)
- **Business Process Management (BPM) Certification**, Fanap Co. (Dec. 2014)
- **ISO TS 16949:2009 Certification**, TUV, Academy Rheinland (May 2011)
- **Internal Audit Certification**, TUV, Academy Rheinland (May 2010)

THESIS SUPERVISED

• **11 MSc. Theses in Industrial Engineering**

1. Nikmanesh F., "Design and Optimization of Sustainable Supply Chain Network with Congested and Reliable Facilities", Azad University, Science and Research Branch, Tehran, IRAN, March 2019- In progress.
2. Mardi F., "Optimizing Location-Pricing-Redundancy Problem with Congested and Green Service Facilities", Azad University, West Tehran Branch, Tehran, IRAN, March 2019- In progress.
3. Shariati M., "Sustainable Healthcare Supply Chain Network Design", Azad University, West Tehran Branch, Tehran, IRAN, March 2019- In progress.
4. Noormohammadi H., "Multi-objective Optimization of Reliable Remanufacturing Problem with M/M/m/k queues", Azad University, West Tehran Branch, Tehran, IRAN, July 2018- In progress.
5. Hosseinzadeh S., "Comparative Performance Analysis of the Computational Intelligence-Based Algorithms for Optimizing Competitive Facility Location Problems", Azad University, West Tehran Branch, Tehran, IRAN, March 2018- January 2019.
6. Eslami S., "Developing a Fuzzy Expert System for Location-Allocation of Relief Distribution and Victim Evacuation After a Natural Disaster", Azad University, West Tehran Branch, Tehran, IRAN, January 2018- In progress.
7. Sokout S.H., "Service-based Supply Chain Network Design with Congested Facilities", Azad University, West Tehran Branch, Tehran, IRAN, January 2018- In progress.
8. Salimian S., "Location and Inventory Decisions to Optimize Emergency Healthcare Systems with Traceability", Azad University, West Tehran Branch, Tehran, IRAN, January 2018- September 2018.
9. Mousavie M., "Joint Optimization of Maintenance and Production Planning Decisions with Choice of Green Manufacturing", Azad University, West Tehran Branch, Tehran, IRAN, November 2017- September 2018.
10. Rahbarjou M., "Cloud Computing-based Supply Chain Network Design", Azad University, West Tehran Branch, Tehran, IRAN, October 2017- September 2018.
11. Ghodszad H., "Design and Optimization of Congested Location-Routing Problem", Azad University, West Tehran Branch, Tehran, IRAN, March 2017- September 2018.

• **17 BSc. Theses in Industrial Engineering**

TECHNICAL SKILLS

- **Process Modelling Tool:** BPMN 2.0
- **Prototype Design Tool:** GUI Design Studio
- **Database:** SQL Server
- **Feasibility Study Software:** COMFAR
- **Statistical Analysis Software:** Minitab, SAS, and SPSS
- **Project Planning & Control Software:** P6 and MS Project
- **Programming Language:** MATLAB and C++
- **Optimization Software:** LINGO, GAMS, and CPLEX

- **Simulation Software:** AnyLogic, Enterprise Dynamic, Arena, and Vensim

MEMBERSHIP

- **Member of Alpha Iota Delta**, Michigan, USA, <http://alphaiotadelta.com/>.
- **Member of Young Researchers Club**, Tehran, Iran, <http://www.bpj.ir/>
- **Member of NODET**, National Organization for Development of Exceptional Talents, Iran, <http://www.bmn.ir/>

JOURNAL EDITORIAL BOARD

- **Editor-in-Chief** in Journal of Applied Intelligence Systems and Information Science, 2019-Now.
- **Lead Guest Editor** in Applied Computational Intelligence and Soft Computing of Operations Research (Special Issue on Advances in Multi-objective Optimization: Theory and Applications), Hindawi Publishing Corporation, 2016.

JOURNAL REVIEWERS

- **Elsevier Journals:** European Journal of Operational Research, Computers & Operations Research, Computers and Industrial Engineering, Applied Soft Computing, Measurement, Simulation Modeling Practice and Theory.
- **Springer Journals:** Journal of Intelligent Manufacturing, International Journal of Advanced Manufacturing Technology.
- **IEEE Journals:** IEEE Transactions on Engineering Management
- **Taylor & Francis Journals:** International Journal of System Science, International Journal of Production Research, International Journal of Management Science and Engineering Management, and International Journal of Computer Integrated Manufacturing.
- **Emerald Journals:** International Journal of Quality & Reliability Management, Kybernetes.
- **Inderscience Journals:** European Journal of Industrial Engineering, International Journal of Services and Operations Management.