

Curriculum Vitae

Ali Shirzadeh Chaleshtari

Lecturer

Operations & Information Management, Isenberg School of Management
University of Massachusetts Amherst
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[Google Scholar](#)

Research Interests

- Supply Chain Management
- Project Scheduling and Management
- Marketing Strategy
- Product Pricing and Return

Appointments

Lecturer

Sep 2022 – Present

Operations and Information Management, Isenberg School of Management, University of Massachusetts Amherst, USA

- Teaching business and information management courses

Adjunct Lecturer

Sep 2021 – May 2022

Supply Chain & Information Management Group, D'Amore-McKim School of Business, Northeastern University, USA

Teaching “Business Statistics” course

Adjunct Lecturer

Jan 2022 – May 2022

Math & Science Division, Babson College, USA

- Teaching “Predictive Data Analytics” course

Visiting Scholar

Oct 2021 – Sep 2022

Supply Chain Management Group, College of Business, University of Rhode Island, USA

- Conducting research on Product Return Management strategies under the conditions of pandemics and post-pandemics
- Developing analytical frameworks of modeling and experimenting consumers’ behavior

Visiting Scholar

Apr 2019 – Oct 2021

Department of Management Science and Information Systems, College of Management, University of Massachusetts Boston, USA

- Conducting research on Marketing Strategies, Product Pricing, and Product Return Management
- Developing analytical frameworks of modeling and experimenting consumers’ behavior

Assistant Professor

Jan 2015- Mar 2019

Department of Industrial Engineering, Islamic Azad University, Tehran-Gharb Branch, Iran

- Advising numerous theses, directing seminars and internship programs, and teaching courses including:

Graduate Courses

- ✓ *Queuing Theory*
- ✓ *Scheduling*
- ✓ *Graduate Seminar*

Undergraduate Courses

- ✓ *Project Planning and Control*
- ✓ *Production Planning*
- ✓ *Probability Theory*

Adjunct Assistant Professor**Jan 2014- Dec 2014***Department of Industrial Engineering, Islamic Azad University, Tehran-Gharb Branch, Iran*

- Courses taught:

Graduate Course✓ *Scheduling*Undergraduate Course✓ *Production Planning***Adjunct Professor****Jan 2013- Dec 2013***Department of Industrial Engineering, Islamic Azad University, Shiraz Branch, Iran*

- Courses taught:

Undergraduate Courses✓ *Project Planning and Control*✓ *Production Planning*✓ *Operations Research***Visiting Scholar****Jan 2012- Jun 2012***Edward P. Fitts Department of Industrial and Systems Engineering, North Carolina State University, USA*

- Focused on Project Scheduling, working with Dr. Yahya Fathi

Research Assistant**Jan 2011- Jan 2012***Department of Industrial Engineering, Sharif University of Technology, Iran*

- Focused on Project Scheduling

Teaching Assistant**Sep 2008- Jul 2010***Department of Industrial Engineering, Sharif University of Technology, Iran*

- Courses assisted:

Graduate Courses✓ *"Fuzzy Theory" by Dr. Hassan Shavandi*✓ *"Pricing and Revenue Management" by Dr. Hassan Shavandi*Undergraduate Courses✓ *"Probability Theory" by Dr. Seyyed Taghi Akhavan Niaki***Education****Ph.D. in Industrial Engineering****Sep 2008 – Aug 2014***Sharif University of Technology, Tehran, Iran*Dissertation: *"Project Scheduling subject to Nonrenewable Resources with Prescheduled Procurement"*, supervised by Dr. Shahram Shadrokh

GPA: 17.89 / 20

M.Sc. in Industrial Engineering**Sep 2006 – Sep 2008***Sharif University of Technology, Tehran, Iran*Dissertation: *"Customization of an Organizational Project Management Maturity Model for Construction Industry"*, supervised by Dr. Alireza Haji

GPA: 17.57 / 20

B.Sc. in Industrial Engineering**Sep 2002 – Sep 2006***Sharif University of Technology, Tehran, Iran*Dissertation: *"Feasibility Study based on UNIDO method and Layout Design of the Production Plant of Water-based Air-conditioner Motors"*, supervised by Prof Mohammad Reza Safaieh

GPA: 15.64 / 20

Accolades

- **Session Chair and Invited Keynote Speaker**, 838th International Conference on Science, Technology, Engineering and Management (ICSTEM), 16th-17th Jan, 2021 at Boston, USA
- Member of Iran's National Elites Foundation, 2015
- **Outstanding Ph.D. Graduate Award**, Sharif University of Technology, Industrial Engineering Department, 2014
- **Best Paper Award** in 9th International Industrial Engineering Conference, Jan 20th-21st, 2013, Tehran, Iran
- **Graduate Research Assistantship Award**, Sharif University of Technology, Industrial Engineering Department, 2011 and 2012
- **Ranked 1st** in Sharif University of Technology, Industrial Engineering Ph.D. program entrance exam, 2007
- **Ranked top 0.3%** among more than 4,000 countrywide participants of Sharif University of Technology, Industrial Engineering M.Sc. program entrance exam, 2006
- **Ranked top 0.6%** among around 4,000 countrywide participants of Sharif University of Technology, Industrial Engineering M.Sc. program, minor in Economic and Social Systems entrance exam, 2006
- **Ranked top 0.9%** among around 4,000 countrywide participants of Sharif University of Technology, Industrial Engineering M.Sc. program, minor in System and Productivity Administration, 2006
- **Ranked top 0.1%** among around 400,000 countrywide participants of national universities entrance exam for B.Sc. programs, 2002

Publications¹

- **Shirzadeh, A.**, Elahi, E., Ebrahimpour, M., "Product Salvage Values to Reform Return Management Strategies", *Reverse Logistics Magazine*, Edition 119, May 2022.
- **Shirzadeh, A.**, Elahi, E., Fathi, M., Khakifirooz, M., "Profit and Social Impact of Return Leniency: a Numerical Study", *Computers & Industrial Engineering*, Vol. 169, 2022, 108-149.
- **Shirzadeh, A.**, Elahi, E., Fathi, M., Khakifirooz, M., Ebrahimpour, M., "Impact of Transformative Marketing and Operations Management on Customers' Behavior", Production and Operations Management Society Conference (POMS 2022), Apr 21st-25th, 2022.
- **Shirzadeh, A.**, Elahi, E., "Product Return Management Strategies", *Reverse Logistics Magazine*, Edition 117, Jan 2022.
- **Shirzadeh, A.**, Elahi, E., "An Investigation of the Benefit of Optimal Refund over the Full Refund Strategy in Retail Market, a Numerical Study", *Cyrus Global Business Perspectives*, Vol. 6, No. 1, Dec. 2021.
- **Shirzadeh, A.**, Elahi, E., "Socially Optimal Retail Return Strategies under the Influence of Endowment Effect", Production and Operations Management Society Lima Virtual Conference (POMS Lima 2021), Dec 2nd – 4th, 2021.
- **Shirzadeh, A.**, Elahi, E., "Investigating the Profit and Social Impact of Product Return Leniency", INFORMS Annual Meeting, Oct 24th-27th, 2021.
- **Shirzadeh, A.**, Elahi, E., "An Investigation of the Benefit of Optimal Refund over the Full Refund Strategy in Retail Market, a Numerical Study", CIK conference 2021, Oct 20th-22nd, 2021.
- **Shirzadeh, A.**, Elahi, E., "Product Information Strategies to Soothe E-Commerce Returns", *Reverse Logistics Magazine*, Edition 114, 15(3), Jun 2021.
- **Shirzadeh, A.**, Elahi, E., "Investigation of the Impact of Loss Aversion on the Optimal Return Strategies", Production and Operations Management Society 31st Annual Conference (POMS 2021), 30th Apr – 5th May 2021.
- **Shirzadeh, A.**, "Wisely Breaking the Industrial Dam", *Small Business Today Magazine*, Feb-Mar 2021.
- **Shirzadeh, A.**, Elahi, E., "Impact of Information Provision on Optimal Return Strategies", International Conference on Science, Technology, Engineering and Management (ICSTEM), Jan 16th-17th, 2021, Boston, USA.
- **Shirzadeh, A.**, Elahi, E., "Optimal Return Strategies under the Influence of Endowment Effect", International Conference on Science, Technology, Engineering and Management (ICSTEM), Jan 16th-17th, 2021, Boston, USA.
- **Shirzadeh, A.**, Shadrokh, Sh., Khakifirooz, M., Fathi, M., Pardalos, P. M., "A hybrid Genetic and Lagrangian relaxation algorithm for Resource-Constrained Project Scheduling under Nonrenewable Resources", *Applied Soft Computing*, vol. 94, Sep 2020, 106482.
- **Shirzadeh, A.**, "Explore Your Business Cube", *Small Business Today Magazine (Online)*, Aug 2020.
- **Shirzadeh, A.**, "Resource Tardiness Weighted Cost Minimization in Project Scheduling", *Advances in Operations Research*, Volume 2017 (2017), Article ID 1308704, 11 pages.

¹ graduate student advisee names are marked by *

- Mirzaei, H.*, **Shirzadeh, A.**, Zeinalnezhad, M., “Vehicle Routing Robust Modeling subject to Simultaneous Pickups and Deliveries, Time Windows, and Labors Allocation”, 3rd International Conference on Industrial Engineering and Management, Dec 28th-29th, 2017, Tehran, Iran.
- Mirzaei, H.*, **Shirzadeh, A.**, Zeinalnezhad, M., “The Design of Hybrid Meta-heuristic for Vehicle Routing Problem with Consideration of Labors Cooperation”, 3rd International Conference on Industrial Engineering and Management, Dec 28th-29th, 2017, Tehran, Iran.
- **Shirzadeh, A.**, Yousefi Saleh, L.*, Amoozad Khalili, H., “Solving Project Scheduling Problem subject to Nonrenewable Resources with Prescheduled Procurement using Particle Swarm Optimization Algorithm”, 295th International Conferences on Engineering and Natural Sciences, Nov 26th-27th, 2017, Vienna, Austria
- Yousefi Saleh, L.*, **Shirzadeh, A.**, Amoozad Khalili, H., “Solving Project Scheduling Problem Subject to Nonrenewable Resources with Prescheduled Procurement using Metaheuristic Algorithm of Scatter Search”, 3rd International Conference on Industrial and Systems Engineering, Sep 13th-14th, 2017, Mashhad, Iran.
- **Shirzadeh, A.**, “Resource Tardiness Weighted Cost Minimization in Project Scheduling”, 11th International Industrial Engineering Conference, Jan 7th-8th, 2015, Tehran, Iran.
- **Shirzadeh, A.**, Shadrokh, Sh., “A Branch and Cut Algorithm for Resource Constrained Project Scheduling Problem subject to Nonrenewable Resources with Prescheduled Procurement”, *Arabian Journal for Science and Engineering*, 2014, doi. 10.1007/s13369-014-1319-9.
- **Shirzadeh, A.**, Shadrokh, Sh., Fathi, Y., “Branch and Bound Algorithms for Resource Constrained Project Scheduling Problem Subject to Nonrenewable Resources with Prescheduled Procurement”, *Mathematical Problems in Engineering*, Volume 2014 (2014), Article ID 634649, 15 pages.
- **Shirzadeh, A.**, Shadrokh, Sh., “Resource Constrained Project Scheduling Problem subject to Cumulative Resources”, *International Journal of Mining, Metallurgy & Mechanical Engineering (IJMMME)*, vol. 1 (1), 2013, pp. 38-47.
- **Shirzadeh, A.**, Shadrokh, Sh., “Branch and Cut Algorithm for Resource Constrained Project Scheduling Problem subject to Nonrenewable Resources with Pre-scheduled Procurement”, 6th International Conference of Iranian Operations Research Society, May 8th-9th, 2013, Tehran, Iran.
- **Shirzadeh, A.**, Shadrokh, Sh., “Minimal Delaying Alternatives Algorithm for Solving Resource Constrained Project Scheduling Problem subject to Nonrenewable Resources with Prescheduled Plan”, 9th International Industrial Engineering Conference, Jan 20th-21st, 2013, Tehran, Iran.
- Khalilzadeh, M., Kianfar, F., **Shirzadeh, A.**, Shadrokh, Sh., Ranjbar, M., “A Modified PSO Algorithm for Minimizing the Total Cost of Resources in MRCPSP”, *Mathematical Problems in Engineering*, Volume 2012 (2012), Article ID 365697, 18 pages.
- **Shirzadeh, A.**, Shadrokh, Sh., “Resource Constrained Project Scheduling Problem subject to Cumulative Resources, a Genetic Algorithm”, International Scientific Academy of Engineering and Technology (ISAET), Dec 29th-30th, 2012, Kuala Lumpur, Malaysia.
- **Shirzadeh, A.**, Shadrokh, Sh., “A Branch and Bound Algorithm for Resource Constrained Project Scheduling Problem subject to Cumulative Resources”, *International Journal of Industrial and Manufacturing Engineering*, vol. 6, no. 2, 2012, pp. 376-381.
- **Shirzadeh, A.**, Shadrokh, Sh., “Solving Resource Constrained Project Scheduling Problem subject to Nonrenewable Resources with Prescheduled Procurement”, 10th International Management Conference, Nov 29th, 2012, Tehran, Iran.
- **Shirzadeh, A.**, Shadrokh, Sh., “A Branch and Bound Algorithm for Resource Constrained Project Scheduling Problem subject to Cumulative Resources”, International Conference on Manufacturing Engineering (ICME), Feb 19th-21st, 2012, Kuala Lumpur, Malaysia.
- **Shirzadeh, A.**, Shadrokh, Sh., “Branch and Bound Algorithms for Resource Constrained Project Scheduling Problem subject to Cumulative Resources”, International Conference on Information Management, Innovation Management and Industrial Engineering, Nov 26th-27th, 2011, Shenzhen, China, vol. 1, pp. 147-152.

Manuscripts Under Review/Pending Revision

- **Shirzadeh, A.**, Elahi, E., Ebrahimpour, M., “Impact of Information Provision on E-Commerce Optimal Return Strategies under the Influence of Endowment Effect, a Numerical Study”, *Optimization*, under review.
- **Shirzadeh, A.**, Elahi, E., Fathi, M., Khakifirooz, M., Ebrahimpour, M., “Assessment of Return Strategies under the Influence of Endowment Effect”, *Production Planning & Control*, under review.
- **Shirzadeh, A.**, Elahi, E., Fathi, M., Khakifirooz, M., Ebrahimpour, M., “Impact of Increased Supply Chain Expenses on Retail Product Return Management”, *Computers & Industrial Engineering*, under review.

Professional Services

- **Editorial Board Member**
 - *Frontiers in Artificial Intelligence*
- **Reviewer**
 - *European Journal of Operational Research*
 - *OMEGA*
 - *Computers and Industrial Engineering*
 - *Journal of Interactive Marketing*
 - *Journal of Business Research*
 - *International Journal of Production Economics*
 - *Production Planning & Control*

Selected Reviews

- “*Handbook of Smart Energy Systems*”, Springer Nature, Under publications.
- “*Large Scale Optimization in Supply Chain and Smart Manufacturing: Theory and Applications*”, Springer, 2019.

Graduate Theses Advised

- Eslami, A., “Using M/M/c/K Queuing System for Locating Temporary Distribution Facilities for Emergency Response”, M.Sc. Thesis, Industrial Engineering Department, Islamic Azad University, Tehran-Gharb Branch, Tehran, Iran.
Advisor **Mar 2018 to Jan 2019**
- Salehi, P., “Reducing Production and Maintenance Operating Costs using an Integrated Production planning; Case study: Zarif Mosavar Production Group”, M.Sc. Thesis, Industrial Engineering Department, Islamic Azad University, Tehran-Gharb Branch, Tehran, Iran.
Advisor **Feb 2018 to Dec 2018**
- Mostaghimi, M., “Simultaneous Optimization of Project Scheduling and Material Procurement Planning”, M.Sc. Thesis, Industrial Engineering Department, Islamic Azad University, Tehran-Gharb Branch, Tehran, Iran.
Advisor **Sep 2017 to Jan 2019**
- Dehghani, S., “Vehicle Routing Problem subject to Simultaneous Pickups and Deliveries, aiming at Sustainable Development Goals (Case Study: Liquidity Management at Bank Branches)”, M.Sc. Thesis, Industrial Engineering Department, Islamic Azad University, Tehran-Gharb Branch, Tehran, Iran.
Co-Advisor **Mar 2017 to Sep 2018**
- Mirzaei, H., “Robust Mathematical Modeling of a Vehicle Routing Problem subject to Simultaneous Pickups and Deliveries, Time Windows, and Labor Allocations”, M.Sc. Thesis, Industrial Engineering Department, Islamic Azad University, Tehran-Gharb Branch, Tehran, Iran.
Advisor **Feb 2017 to Sep 2017**
- Dabaghi, M., “Performance Evaluation of Sustainable Supply Chain Management using DBSC”, M.Sc. Thesis, Industrial Engineering Department, Islamic Azad University, Tehran-Gharb Branch, Tehran, Iran.
Co-Advisor **Feb 2017 to Sep 2018**
- Kosari, E., “Bi-Objective Crew Scheduling Model for Train Drivers, considering personnel satisfaction (Case Study: Iran Railway Company)”, M.Sc. Thesis, Industrial Engineering Department, Islamic Azad University, Tehran-Gharb Branch, Tehran, Iran.
Co-Advisor **Feb 2017 to Sep 2018**
- Honari, Sh., “A Mathematical Model for Scheduling Oil, Gas, and Petrochemical Projects”, M.Sc. Thesis, Industrial Engineering Department, Islamic Azad University, Tehran-Gharb Branch, Tehran, Iran.
Advisor **Dec 2016 to Sep 2017**

- Sadeghi, F., ‘Supplier Evaluation and Selection under a Combined MTS / MTO Supply Chain Strategy, considering the Order Penetration Point’, M.Sc. Thesis, Industrial Engineering Department, Islamic Azad University, Tehran-Gharb Branch, Tehran, Iran.
Co-Advisor **Dec 2016 to Sep 2017**
- Amini, S., “A Model for Analyzing the Risks of Construction Projects”, M.Sc. Thesis, Industrial Engineering Department, Islamic Azad University, Tehran-Gharb Branch, Tehran, Iran.
Advisor **Nov 2016 to Aug 2018**
- Dehghan, A., “An Integrated Model of Supply Chain Relief Logistics and Metaheuristic Solution Algorithms”, M.Sc. Thesis, Industrial Engineering Department, Islamic Azad University, Tehran-Gharb Branch, Tehran, Iran.
Co-Advisor **Aug 2016 to Sep 2017**
- Aliakbar Khani, S., “Project Scheduling subject to Renewable and Nonrenewable Resources with Prescheduled Procurement, aimed at Minimization of Resource Tardiness Cost”, M.Sc. Thesis, Industrial Engineering Department, Islamic Azad University, Tehran-Gharb Branch, Tehran, Iran.
Advisor **Aug 2016 to Feb 2017**
- Yousef Salehi, L., “Solving Project Scheduling Problem subject to Nonrenewable Resources with Prescheduled Procurement, using Heuristic and Metaheuristic Algorithms”, M.Sc. Thesis, Industrial Engineering Department, Islamic Azad University, Tehran-Gharb Branch, Tehran, Iran.
Advisor **Aug 2016 to Feb 2017**
- Hatefi, N., “New MIP Mathematical Model for Closed-Loop Supply Chain Optimization and Supplier Selection”, M.Sc. Thesis, Industrial Engineering Department, Islamic Azad University, Tehran-Gharb Branch, Tehran, Iran.
Advisor **Aug 2016 to Feb 2017**
- Hajaghaei, S.M., “Production Planning Model for Deteriorating Items in Supply Chain and Vibration Damping Optimization Algorithm”, M.Sc. Thesis, Industrial Engineering Department, Islamic Azad University, Tehran-Gharb Branch, Tehran, Iran.
Advisor **Aug 2016 to Feb 2017**

Society Memberships/Registrations

- The International Society of Global Optimization (iSoGO)
- Institute of Industrial and Systems Engineers (IISE)
- Society for Industrial and Applied Mathematics (SIAM)
- Institute for Operations Research and the Management Sciences (INFORMS)
- Project Management Institute (PMI)
- Association for Supply Chain Management
- Society of production and operations management
- Reverse logistics association (RLA)

Professional Experiences

- Polymershapes, Distribution and Manufacturing Company, Tyngsborough, MA, USA
Management Consultant Jun 2019-Sep 2019
- Modiran 21, Management Consulting Firm, Tehran, Iran
Senior Internal Management Consultant – Head of Project Management Office Oct 2015-Feb 2019
- Nilram Mana, ERP Provider, Tehran, Iran
Business Analysis Manager Dec 2014 – Oct 2015
- Nomatec Software Group, Management Systems Provider, Tehran
Business Analyst and Software Designer Jul 2013 – Dec 2014
- Iran-Khodro Card Company, Management Systems Provider, Tehran, Iran
Business Analysis Manager Jul 2006 – Sep 2009
- Yaas Arghavani Industrial Engineering Group, Management Consulting, Tehran, Iran
Research Analyst Feb 2009 – May 2009

Notable Skills

- Tableau/Power BI
- CPLEX/GAMS/LINGO
- SPSS/R/SAP Analytics Cloud/
Analytic Solver(XLMiner)
- UML/BPMN/Enterprise Architecture
- C#.NET/Visual Basic.NET
- MATLAB/MAPLE
- MS Office Suite
- VENSIM
- UNIDO COMFAR
- Shoptech/Microsoft
Dynamics/SAP S4 Hana