

Shabnam Rezapour

Engineering Management

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## Education

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- PhD. Industrial and Systems Engineering. The University of Oklahoma, 2017 (received Honorable Mention for the Provost's Dissertation Prize).
- MSc. Industrial Engineering. Amirkabir University of Technology, 2006.
- BSc. Industrial Engineering. Amirkabir University of Technology, 2004.

## Professional Appointments

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- Assistant Professor, Enterprise and Logistics Engineering, Florida International University, Fall 2017 - now.
- Graduate Research Assistant, School of Industrial and Systems Engineering, University of Oklahoma, Fall 2012 - Spring 2017.
- Instructor, Department of Industrial Engineering, Urmia University of Technology, Fall 2010 - Spring 2012.
- Researcher, Logistics and Supply Chain Management Research Group, Institute of Trade Studies and Researches (ITSR), Iran Ministry of Commerce, Fall 2006 - Spring 2010.

## Research Interests

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- Resilient Network Infrastructure and Supply Chain Management
- Commercial, Healthcare, and Humanitarian Logistics
- Disaster Management
- Healthcare Operations in Disasters
- Ecological Infrastructure

## Articles in Peer-Reviewed Journals

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1. Zamani Sabzi H, Rezapour S, Fovargue R, Moreno H, Neeson TM (2019). Strategic Allocation of Water Conservation Incentives to Boost Environmental Flows and Societal Outcomes. *Ecological Engineering*, 127; 160-169.
2. Rezapour S, Naderi N, Moshedlou N, Rezapourbehnagh S (2018). Optimal Deployment of Emergency Resources in Sudden Onset Disasters. *International Journal of Production Economics*, 204; 365-382.

3. Rezapour S, Srinivasan R, Tew J, Allen JK, Mistree F (2018). Correlation Between Supply Networks' Strategic and Operational Risk Mitigation Strategies. *International Journal of Production Economics*; 201; 225-248.
4. Rezapour S, Allen JK, Mistree F (2017). Reliable Flow in Stochastic Supply Networks Servicing Pre- and After-sales Markets. *Artificial Intelligence for Engineering Design, Analysis and Manufacturing*; 31; 120-142.
5. Rezapour S, Farahani RZ, Pourakbar M (2017). Resilient Supply Chain Network Design under Competition: A Case Study. *European Journal of Operational Research*; 259; 1017-1035.
6. Mohammaddust F, Rezapour S, Farahani RZ, Mofidfar M, Hill A (2017). Developing Lean and Responsive Supply Chains: A Robust Model for Alternative Risk Mitigation Strategies in Supply Chains Design. *International Journal of Production Economics*; 183; 632-653.
7. Rezapour S, Allen JK, Mistree F (2016). Reliable Product-Service Supply Chains for Repairable Products. *Transportation Research Part E*; 95; 299-321.
8. Rezapour S, Allen JK, Mistree F (2016). Reliable Flow in Forward and After-sales Supply Chains Considering Propagated Uncertainty. *Transportation Research Part E*; 93; 409-436.
9. Rezapour S, Farahani RZ (2015). Concurrent Design of Product Family and Supply Chain Network Considering Quality and Price. *Transportation Research Part E*; 81; 18-35.
10. Rezapour S, Farahani RZ, Fahimnia B, Govindan K, Mansouri Y (2015). Competitive Closed-Loop Supply Chain Network Design with Price-dependent Demands. *Journal of Cleaner Production*; 93; 251-272.
11. Rezapour S, Allen JK, Mistree F (2015). Uncertainty Propagation in a Supply Chain or Supply Network. *Transportation Research Part E*; 73; 185-206.
12. Farahani RZ, Rezapour S, Drezner T, Moharerhayeh Esfahani A, Amiri-Aref M (2015). Locating and Capacity Planning for Retailers of a New Supply Chain to Compete on the Plane. *Journal of the Operations Research Society*; 66; 1182-1205.
13. Rezapour S, Farahani RZ, Dullaert W, Borger BD (2014). Designing a New Supply Chain for Competition against an Existing Supply Chain. *Transportation Research Part E*; 67; 124-140.
14. Rezapour S, Farahani RZ, Zhang D, Mohammaddust F (2014). Strategic Design of Competing Supply Chain Network for Markets with Deterministic Demands. *IMA Journal of Management Mathematics*; 1-33 (selected by the editors as the best paper of 2016).
15. Rezapour S, Farahani RZ (2014). Supply Chain Network Design under Oligopolistic Price and Service Level Competition with Foresight. *Computers and Industrial Engineering*; 72; 129-142.
16. Farahani RZ, Rezapour S, Drezner T, Fallah S (2014). Competitive Supply Chain Network Design: An Overview of Classifications, Models and Applications. *Omega: International Journal of Management Science*; 45; 92-118.
17. Baghalian A, Rezapour S, Farahani RZ (2013). Robust Supply Chain Network Design with Service Level against Disruptions and Demand Uncertainties: A Real-Life Case. *European Journal of Operational research*; 227; 199-215.
18. Abginechi S, Farahani RZ, Rezapour S (2013). A Mathematical Model for Order Splitting in a Multiple Supplier Single-Item Inventory System. *Journal of Manufacturing Systems*; 32(1); 55-67.

19. Saraee M, Moosavi V, Rezapour S (2011). Application of Self Organizing Map to Model a machining System. *Journal of Manufacturing Technology Management*; 22(6); 818-830.
20. Rezapour S, Farahani RZ, Miandabchi E (2011). A Machine to Loop Assignment and Layout Design Methodology for Tandem AGV Systems with Single Load Vehicles. *International Journal of Production Research*; 49(12); 3605-3633.
21. Rezapour S, Farahani RZ, Ghodsipour SH, Abdollahzadeh S (2011). Strategic Design of Competing Supply Chain Networks with Foresight. *Advances in Engineering Software*; 42; 130-141.
22. Rezapour S, Farahani RZ, Drezner T (2011). Strategic Design of Competing Supply Chain Networks for Inelastic Demand. *Journal of the Operations Research Society*; 62(10); 1784-1795.
23. Rezapour S, Farahani RZ (2010). Strategic Design of Competing Centralized Supply Chain Networks for Markets with Deterministic Demands. *Advances in Engineering Software*; 41(5); 810-822.
24. Torfi F, Farahani RZ, Rezapour S (2010). Fuzzy AHP to Determine the Relative Weights of Evaluation Criteria and Fuzzy TOPSIS to Rank the Alternatives. *Applied Soft Computing*; 10(2); 520-528.
25. Fazel Zarandi MH, Rezapour S (2009). A Fuzzy Signal Controller for Isolated Intersections. *Uncertain Systems*; 3(3); 174-182.

#### Papers under Review and Working Papers

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26. Inventory Dispersion, Stock Mobilizing Speed, and Fortification in Humanitarian Operations. With R.Z. Farahani and A.J. Pedraza-Martinez (submitted to *Production and Operations Management*).
27. Search, Rescue, and Medical Teams' Deployment in Multi-Site Sudden Onset Disasters. With Farahani RZ, Morshedlou N, and Rezapour S (submitted to *Omega: International Journal of Management Science*).

#### Books

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1. Rezapour S, Khosrojerdi A, Rasoulifar G, Allen JK, Panchal JH, Sirinivasan RS, Tew JD, Mistree F. (Eds.) Architecting Fail-safe Supply Networks, *CRC Press*, Taylor & Francis Group, USA, 2018, 358 pages, ISBN 9781138504264.
2. Farahani RZ, Rezapour S, Kardar L. (Eds.), Logistics Systems: Concepts, Models and Applications, *Elsevier*, London, U.K., 2011, 486 pages, ISBN 9780123852021.
3. Farahani RZ, Rezapour S, Kardar L. (Eds.), Supply Chain Sustainability and Raw Material Management: Concepts and Processes, *IGI Global*, Hershey, USA, 2011, 367 pages, ISBN 9781613505045.

#### Presentation in Academic Conferences

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1. Rezapour S, Farzaneh MA (2019) Drone-aided road recovery and relief distribution in disasters. 2019 POMS 30th Annual Conference, Washington D.C., WA.

2. Rezapour S, Farahani RZ, Pedraza-Martinez AJ (2019) Controlled decentralization is the best locating strategy in disaster preparedness. 2019 POMS 30th Annual Conference, Washington D.C., WA.
3. Zamani Sabzi H, Moreno H, Rezapour S, Fovargue R, Gill K, Neeson T (2018) Decision support tools for allocating water conservation incentives in the Red River. Oklahoma Governor's Water Conference, Oklahoma City, OK.
4. Fovargue R, Zamani Sabzi H, Rezapour S, Moreno H, Neeson T (2018) Balancing conflicting water usages under a changing climate by optimizing a network of reservoirs in the Red River Basin of the South, USA. American Geophysical Union annual meeting, Washington, D.C.
5. Zamani Sabzi H, Fovargue R, Rezapour S, Moreno H, Neeson T (2018) Strategic distribution of water conservation incentives under drought-prone conditions: A case study in the Red River basin, USA. American Geophysical Union annual meeting, Washington, D.C.
6. Rezapour S, Farahani RZ, Pedraza-Martinez AJ (2017). Interactions Among Mitigation, Preparedness, and Response in Disaster Management. POMS 28th Annual Conference, Houston, USA.
7. Rezapour S, Farahani RZ, Pedraza-Martinez AJ (2017). Interactions Among Mitigation, Preparedness, and Response in Disaster Management. INFORMS 2017 Annual Meeting, Houston, USA.
8. Rezapour S, Farahani RZ, Pedraza-Martinez AJ (2016). Inventory Dispersion, Stock Mobilizing Speed, and Fortification in Humanitarian Operations. POMS 27th Annual Conference, Orlando, USA.
9. Rezapour S, Farahani RZ, Pedraza-Martinez AJ (2016). Inventory Fortification, Decentralization, and Speed for Disaster Cycle Management. INFORMS 2016 Annual Meeting, Nashville, USA.
10. Rezapour S, Allen JK, Mistree F (2016). Correlations between Strategic and Operational Risk Management Strategies. INFORMS 2016 Annual Meeting, Nashville, USA.
11. Rezapour S, Allen JK, Mistree F (2015). Architecting Fail-safe Supply Networks. INFORMS 2015 Annual Meeting, Philadelphia, USA.
12. Rezapour S, Allen JK, Mistree F (2015). Stochastic Supply Networks Servicing Pre- and After-sales Markets. ASME International Design Engineering Technical Conferences, Boston, USA.
13. Rezapour S, Allen JK, Mistree F (2014). Concurrent Planning of Forward and After-sale Supply Chains against Demand and Supply - side Uncertainty. INFORMS 2014 Annual Meeting, San Francisco, USA.
14. Khosrojerdi A, Rezapour S, Allen JK, Mistree F (2014). Five Steps for Crafting a Doctoral Research Proposal in Engineering Design. ASME International Design Engineering Technical Conferences, Buffalo, USA.
15. Rezapour S, Allen JK, Mistree F (2014). Uncertainty Propagation in a Supply Chain / Network with Uncertain Facility Performances. ASME International Design Engineering Technical Conferences, Buffalo, USA.
16. Khosrojerdi A, Rezapour S, Allen JK, Mistree F (2013). Designing a System of Plug-in Hybrid Electronic Vehicle Charging Stations. INFORMS 2013 Annual Meeting, Minneapolis, USA.

17. Rezapour S, Allen JK, Trafalis TB, Mistree F (2013). Robust Supply Chain Network Design by Considering Demand-side Uncertainty and Supply-side Disruption. ASME International Design Engineering Technical Conferences, Portland, USA.
18. Mohammaddust F, Rezapour S (2012). Robust Supply Chain Network Design with Several Mitigation Strategies against Disruptions and Demand Uncertainties. 25th European Conference of Operational Research, Vilnius, Lithuania.
19. Rajablo G, Rezapour S, Soleimanpour M (2012). Designing a Robust Supply Chain for Competition against Existing Competitors in Retailer Level. 25th European Conference of Operational Research, Vilnius, Lithuania.
20. Rezapour S, Farahani RZ (2010). Supply Chain Network Design under Oligopolistic Competition with Foresight. 24th European Conference of Operational Research, Lisbon, Portugal.
21. Rezapour S, Farahani RZ (2009). Supply Chain Network Design with Foresight. 23th European Conference of Operational Research, Bonn, Germany.
22. Sarace M, Moosavi V, Rezapour S (2009). Application of Self Organizing Map to Model a Machining System. 4th European Conference on Intelligent Management Systems in Operations, Manchester City, UK.

### Teaching Experience

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- Florida International University
  - MSc. Applications of OR in Manufacturing. Fall 2017 and 2018 (on campus).
  - MSc. Applications of OR in Manufacturing. Fall 2017 and 2018 (online).
  - MSc. Stochastic Processes. Spring 2018 and 2019 (on campus)
- The University of Oklahoma
  - BSc. Deterministic Systems Model. Fall 2014.
  - MSc. Systems Optimization. Fall 2014.
- Urmia University of Technology
  - BSc. Engineering Statistics (Fall 2008-2011), Inventory Management (Fall 2008-2011), and Statistical Quality Control (Spring 2009-2012).
  - MSc. Queuing Systems (Spring 2009-2012), E-supply Chain Management (Spring 2012), and Design of Experiments (Fall 2008-2011).

### Graduate Student Supervision

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- 1) Mohammad Amin Farzaneh (2018). Data-driven Recovery of Disrupted Road Infrastructure Using UAVs. M.Sc. Thesis, Florida International University.
- 2) Mohammaddust F (2012). Developing Lean and Responsive Supply Chains: A Robust Model for Alternative Risk Mitigation Strategies in Supply Chains Design. M.Sc. Thesis, Urmia University of Technology.

- 3) Rajabloo G (2012). Resilient Supply Chain Network Design under Competition: A Case Study. M.Sc. Thesis, Urmia University of Technology.
- 4) Baghalian A (2011). Robust Supply Chain Network Design with Service Level against Disruptions and Demand Uncertainties: A Real-Life Case. M.Sc. Thesis, Urmia University of Technology.
- 5) Azarmehr M (2011). Sourcing and Pricing Strategies for Two Retailers in a Decentralized Supply Chain System under Supply Disruption. M.Sc. Thesis, Urmia University of Technology.

## Memberships

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- IISE
- POMS
- INFORMS
- ASME

## Referee for Journals

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- Production and Operations Management
- Omega: International Journal of Management Science
- European Journal of Operational Research
- Interfaces
- International Journal of Production Economics
- Transportation Research Part E
- International Journal of Production Research
- Expert Systems with Application