



Mohammadreza Nematollahi
nematollahi@alumni.iust.ac.ir
mrn.iust@gmail.com

Education

B.Sc., Industrial Engineering – Iran University of Science and Technology, 2010.
(Overall average grade: 18.27 out of 20)

M.Sc., Industrial Engineering – Iran University of Science and Technology, 2012.
(Overall average grade: 19.15 out of 20)

Ph.D., Industrial Engineering – Iran University of Science and Technology, 2017.
(Overall average grade: 19.05 out of 20)

Research Interests

Pharmaceutical supply chain management
Supply chain coordination
Game theory
Sustainable supply chain management
Inventory models in supply chain

Refereed Journal Papers

1. "Coordination of social responsibility and order quantity in a two-echelon supply chain: A collaborative decision making perspective", (with S. M. Hosseini-Motlagh and J. Heydari), *International Journal of Production Economics*, 2017, 184, 107-121. **(ISI)**.
2. "Economic and social collaborative decision-making on visit intervals and service level in a two-echelon pharmaceutical supply chain", (with S. M. Hosseini-Motlagh and J. Heydari), *Journal of Cleaner Production*, 2017, 142 (4), 3956-3969. **(ISI)**.
3. "An inventory control problem for deteriorating items with back-ordering and financial considerations", (with AA Taleizadeh), *Applied Mathematical Modelling*, 2014, 38(1), 93-109. **(ISI)**.
4. "Simultaneous coordination of review period and order-up-to-level in a manufacturer-retailer chain", (with S. M. Hosseini-Motlagh and M. Johari), *Journal of Industrial and System Engineering*, 2017, 10 (SI: Production and Inventory), 1-17. **(ISC)**.
5. "Coordination and profit sharing in a two-level supply chain under periodic review inventory policy with delay in payment contract", (with S. Hojati, S. M. Seyedhosseini and S. M. Hosseini-Motlagh,), *Journal of Industrial and Systems Engineering*, 2017, 10 (SI: Production and Inventory), 109-131. **(ISC)**
6. "Supply chain coordination using different modes of transportation considering stochastic price-dependent demand", (With S. M. Hosseini-Motlagh and M. Johari), *International Journal of Transportation Engineering*, 2017, 5(2), 137-165. **(ISC)**.
7. "Coordinating pricing and periodic review replenishment decisions in a two-echelon supply chain using quantity discount contract"(With S. M. Hosseini-Motlagh and M. Johari), *Journal of Industrial Engineering and Management Studies*,, 2016, 3(2), 58-87. **(ISC)**.
8. "An inventory control model for deteriorating products with backordering and delayed payment." (with M. Heydari and AA Taleizadeh), *International Journal of Industrial Engineering and Production Management*, 2015, 26(1), 99-115. **(ISC)**.

9. "Minimizing total weighted tardiness for the single machine scheduling problem with dependent setup time and precedence constraints", (with H. Haddad), *Management Science Letters*, 2012, 2.2, 517-524. **(ISC)**.
10. "A mathematical model for coordinating corporate social responsibility and order quantity in pharmaceutical supply chain", (with S. M. Hosseini-Motlagh and J. Heydari), *Journal of Modeling in Engineering*, 2016. **(ISC, Accepted)**.
11. "Order quantity optimization in a two-level pharmaceutical supply chain", (With S. Yaghoubi, S. M. Hosseini-Motlagh and S. Foladi-Mahani), *Journal of Industrial and Systems Engineering*, **(ISC, Accepted)**.
12. "A mathematical model for coordinating a socially responsible pharmaceutical supply chain under periodic review replenishment policies", (with S. M. Hosseini-Motlagh, J. Ignatius and M. Goh). **(ISI, Under review)**.
13. "Supply chain coordination and benefit sharing under periodic review inventory system using quantity discount contract", (With S. M. Hosseini-Motlagh and M. Johari and J. Ignatius). **(ISI, Under review)**.
14. "Supply chain coordination and profit sharing in a distributor-retailer chain with stochastic demand and shelf-life considerations ", (with S. M. Hosseini-Motlagh), **(ISI, Under review)**.
15. " Proposing a delay in payment contract for coordinating a two-echelon periodic review supply chain with stochastic promotional effort dependent demand ", (With S. M. Hosseini-Motlagh and S. Ebrahimi), **(ISI, Under review)**.
16. " Coordination of promotional efforts and periodic review replenishment decisions in a two-echelon supply chain using a discount contract ", (With S. M. Hosseini-Motlagh and M. Nouri), **(ISI, Under review)**.
17. " Coordinating a two-echelon sustainable supply chain with stochastic multi-factor-dependent demand and cap-and-trade regulation ", (With S. M. Hosseini-Motlagh and S. Ebrahimi), **(ISI, Under review)**.
18. " Coordinating manufacturer's innovation and retailers' promotion and replenishment using a compensation-based wholesale price contract ", (With S. M. Hosseini-Motlagh and M. Nouri), **(ISI, Under review)**.
19. " Coordination of pricing and periodic review inventory decisions in a supplier-retailer chain with stochastic price-dependent demand ", (With S. M. Hosseini-Motlagh and M. Johari), **(ISI, Under review)**.
20. "Supply chain coordination under periodic review replenishment system and stochastic price sensitive demand: A delay in payment contract approach", (with S. M. Hosseini-Motlagh, M. Jazinaninejad and S. M. Seyedhosseini), **(ISI, Under review)**.
21. "Designing a coordination model in a two-echelon decentralized supply chain using delay in payments contract under periodic review inventory system and stochastic demand", (with S. M. Hosseini-Motlagh, M. Jazinaninejad and S. M. Seyedhosseini), **(ISC, Under Review)**.
22. "A mathematical model for coordination of review period and order-up-to level in a decentralized two level supply chain with delay in payments", (With S. M. Hosseini-Motlagh and S. Ebrahimi), **(ISC, Under Review)**.
23. "Proposing a mathematical model for coordinating decisions in periodic review inventory systems and sharing the profit in a two-echelon decentralized supply chain, by considering quantity discount contract", (With S. M. Hosseini-Motlagh and M. Nouri), **(ISC, Under review)**.
24. " Bi-level credit period coordination for periodic review inventory system with price-credit dependent demand under time value of money", (With S. M. Hosseini-Motlagh and M. Johari and J. Ignatius). **(ISI, Submitted)**.
25. "Proposing a coordination model for determining optimal order quantity and social responsibility investment in a two-echelon pharmaceutical supply chain ", (with S. M. Hosseini-Motlagh and H.R. Rasekh), **(ISI, Submitted)**.

26. " A collaborative model for coordination of monopolistic manufacturer's promotional efforts and competing duopolistic retailers' trade credits ", (With S. M. Hosseini-Motlagh and M. Johari), **(ISI, Submitted)**.
27. "Proposing a delay in payment contract for coordinating a two-echelon pharmaceutical supply chain with shelf-life consideration", (with S. M. Hosseini-Motlagh, S. Hojati and S. M. Seyedhosseini). **(ISI, Working paper)**
28. "Proposing a scenario-based revenue-sharing contract for supply chain coordination with stochastic demand", (With S. M. Hosseini-Motlagh and A. Jokar), **(ISI, Working paper)**.
29. " Coordination and competition of duopolistic retailers' green warranty and manufacturer's eco-design strategies for substitutable products with environmental stewardship considerations", (With S. M. Hosseini-Motlagh and M. Nouri), **(ISI, Working paper)**.
30. " A three-echelon reverse supply chain coordination with green effort using revenue sharing contract", (With S. M. Hosseini-Motlagh and S. Rahmani and), **(ISI, Working paper)**.
31. " Environmental awareness efforts in a coordinated competitive reverse supply chain: A collaborative approach", (With S. M. Hosseini-Motlagh and M. Johari), **(ISI, Working paper)**.

Conference Papers

1. "Proposing a multi-item deterministic inventory-routing problem for pharmaceutical products", (with S. M. Hosseini-Motlagh, M. R. Gholamian and A. R. Jalali), 11th International Industrial Engineering Conference, 2015.
2. "Green inventory routing problem for pharmaceutical products distribution in multi-product mode", (with S. M. Hosseini-Motlagh, M. R. Gholamian and A. R. Jalali), 6th National and 4th International Logistics and Supply Chain Conference, 2015.

Honors and awards

1. Ranked 2th among all undergraduate students (with the same entrance as mine) in School of Industrial Engineering, Iran University of Science and Technology. (2010)
2. Ranked 3th among all MSc students (with the same entrance as mine) in School of Industrial Engineering, Iran University of Science and Technology. (2012)
3. Ranked 2th among all PhD students (with the same entrance as mine) in School of Industrial Engineering, Iran University of Science and Technology. (2017)
4. Selected as the best student among all BSc students in School of Industrial Engineering, Iran University of Science and Technology. (2008)
5. Selected as the best student among all BSc students in School of Industrial Engineering, Iran University of Science and Technology. (2009)

Computer Skills

MATLAB	level: intermediate (programming, optimization)
GAMS	level: intermediate (modeling, optimization)
LINGO	level: intermediate (modeling, optimization)
Minitab	level: intermediate (statistical test of hypothesis, descriptive statistics, ...)
MSP	level: intermediate (CPM analysis, WBS analysis, resource scheduling, ...)
MS office	level: advance (Excel, Word, Power point)

Language Skills

Persian	level: native
English	level: advance