

Amirhossein Moosavi

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Education

University of Ottawa	Sep 2019 – Present
<i>PhD in Management</i>	<i>Ontario, Canada</i>
Azad University	Sep 2014 – Feb 2017
<i>MSc in Industrial Engineering (Graduated with First Class Honors)</i>	<i>Tehran, Iran</i>
Azad University	Sep 2009 – Jun 2014
<i>BSc in Industrial Engineering</i>	<i>Tehran, Iran</i>

Research Interests

Healthcare management
Supply chain management
Applications of Advanced Analytics
Applications of Machine Learning

Awards & Honors

University of Ottawa	
PhD Engagement Award (\$5,000)	2022
International Ontario Graduate Scholarship (\$15,000)	2021
Admission Scholarship (\$18,000)	2021-2023
International Ontario Graduate Scholarship (\$15,000)	2020
Excellence Scholarship (\$10,000)	2020
International Doctoral Scholarship (\$60,000)	2019-2023
Azad University	
Publication Award (\$1,000)	2020
Publication Award (\$1,000)	2018
Exempted from the PhD university entrance exam (GPA: 19.63/ 20)	2017
Best Thesis Award (\$2,000)	2017
Selected as the best MSc student of the university out of more than 2000 MSc students	2016

Publications

Refereed Journal Articles

1. **Moosavi, A.**, Ozturk, O., & Patrick, J. (2022). Staff scheduling for residential care under pandemic conditions: The case of COVID-19. *Omega* [IF=8.673], 112, 102671. [DOI](#).
2. **Moosavi, A.**, & Ebrahimnejad, S. (2020). Robust surgery scheduling considering upstream and downstream units: A new two-stage heuristic algorithm. *Computers & Industrial Engineering* [IF=7.180]. [DOI](#).
3. Nikfarjam, A., & **Moosavi, A.** (2020). An integrated $(1, T)$ inventory policy and vehicle routing problem under uncertainty: An accelerated Benders decomposition algorithm. *Transportation Letters* [IF=2.844]. [DOI](#).
4. **Moosavi, A.**, & Nikfarjam, A. (2019). A multi-path routing-inventory problem for a closed-loop supply chain considering the heterogeneous fleet of vehicles. *International Journal of Sustainable Engineering*, 12(3), 174-188 [DOI](#).
5. Erfani, B., Ebrahimnejad, S., & **Moosavi, A.** (2019). An integrated dynamic facility layout and job shop scheduling problem: A hybrid NSGA-II and local search algorithm. *Journal of Industrial and Management Optimization* [IF=1.411], 1317-1336 [DOI](#).
6. Rezaei, N., Ebrahimnejad, S., **Moosavi, A.**, & Nikfarjam, A. (2019). A green vehicle routing problem with time windows considering the heterogeneous fleet of vehicles: Two metaheuristic algorithms. *European Journal of Industrial Engineering* [IF=1.217], 13(4), 507-535 [DOI](#).
7. Zanganeh, M., Ebrahimnejad, S., **Moosavi, A.**, & Tayebi, H. (2019). A bi-objective model for humanitarian logistics network design in response to post-disaster. *International Journal of Logistics Systems and Management*, 33(2), 256-279. [DOI](#).
8. **Moosavi, A.**, & Ebrahimnejad, S. (2018). Scheduling of elective patients considering upstream and downstream units and emergency demand using robust optimization. *Computers & Industrial Engineering* [IF=7.180], 120, 216-233. [DOI](#).
9. Ebrahimnejad, S., Rahimi, V., & **Moosavi, A.** (2018). A proposed grey fuzzy multi-objective programming model in supplier selection: a case study in the automotive parts industry. *International Journal of Logistics Systems and Management*, 29(4), 409-435. [DOI](#).

In-Progress Articles

1. **Moosavi, A.**, Blais-Amyot, S., Ozturk, O., & Forster, A. A decision support tool to construct scheduling templates in a medical day care unit: Evidence from a real case (Under review in *Operations Research for Health Care*).
2. **Moosavi, A.**, Ozturk, O., & Patrick, J. Dynamic distributed ambulatory care scheduling.

3. **Moosavi, A.**, Erfani, B., & Saure, A. Storage location assignment problem for heterogeneous customers.

Conference Articles

1. Nikfarjam, A., **Moosavi, A.**, Neumann, A., & Neumann, F. Computing High-Quality Solutions for the Patient Admission Scheduling Problem using Evolutionary Diversity Optimisation. *17th International Conference on Parallel Problem Solving from Nature*.
2. **Moosavi, A.**, Ozturk, O., & Patrick, J. Residential care scheduling under pandemic conditions. *2022 CORS/INFORMS International Conference*.
3. **Moosavi, A.** Entropy-based Evolutionary Diversity Optimization for the Patient Admission Scheduling Problem. *2022 CORS/INFORMS International Conference*.
4. **Moosavi, A.**, & Ebrahimnejad, S. (2017). Scheduling elective patients using robust optimization (in Persian). *First International Conference on Systems Optimization and Business Management*.
5. Nazeriani, M., Ebrahimnejad, S., & **Moosavi, A.** (2016). Scheduling operating rooms using Ant Colony Optimization algorithm (in Persian). *First International Conference on Industrial Engineering, Management, and Accounting*.

Journal Review Experience

Computers & Industrial Engineering, **six** submissions refereed

Production Planning & Control, **two** submissions refereed

Transportation Letters, **two** submissions refereed

International Journal of Logistics, **one** submission refereed

Information Systems and Operational Research, **two** submissions refereed

International Journal of Sustainable Engineering, **four** submissions refereed

Work Experience

University of Ottawa

Part-time Professor, Applications of Statistical Methods in Business 2021-2022

Teaching Assistant, Applications of Statistical Methods in Business 2021-2022

Teaching Assistant, Statistics for Management 2020

Teaching Assistant, Applications of Statistical Methods in Business 2019-2020

Azad University

Teaching Assistant, Queuing Theory 2016

Teaching Assistant, Decision-Making Methods 2016

Teaching Assistant, Research Methodology 2016

<i>Research Assistant</i>	2015-2017
<ul style="list-style-type: none"> • Developed mathematical models, heuristics and meta-heuristics • Performed statistical analysis in Minitab and Design Expert • Gave presentations at international and national conferences 	

Volunteer Experience

University of Ottawa

<i>The Graduate Student's Association Board Director</i>	2020-2021
<i>Mentor, Ms. Azita Jafarbigloo and Ms. Sandra Amyot</i>	2019-2021

Renault Pars

<i>Project Manager, to create a charity mobile kinder garden in Iran</i>	2018
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Azad University

<i>Mentor, Ms. Neda Rezaei, Mr. Behrad Erfani, and Mr. Adel Nikfarjam</i>	2016-2019
<i>Chair, Journal Club of the Industrial Engineering department</i>	2015-2017
<i>Graduate Student Association Member</i>	2014-2017

Additional Skills

Programming knowledge

Python, MATLAB, GAMS, LaTeX, expert knowledge
C++, Java, R, beginner knowledge

Software knowledge

Minitab, Design Expert, EndNote, Microsoft Office, expert knowledge

Language

Farsi (native), English (Fluent)

References

Dr. Onur Ozturk	Assistant Professor
<i>Relationship: Supervisor (PhD) and co-author</i>	
Tel: +1 613-562 5800 x4858	ozturk@telfer.uOttawa.ca
Dr. Jonathan Patrick	Full Professor
<i>Relationship: Supervisor (PhD) and co-author</i>	
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Dr. Sadoullah Ebrahimnejad	Full Professor
<i>Relationship: Supervisor (MSc), and co-author</i>	
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