

# Amirhossein Moosavi

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## *Education*

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

## *Research Interests*

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Healthcare management  
Supply chain management  
Business Analytics  
Machine Learning

## *Awards & Honors*

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<b>University of Ottawa</b>	
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
<b>Azad University</b>	
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

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 Publications
 

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**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.
2. **Moosavi, A.**, Ozturk, O., & Patrick, J. Dynamic distributed ambulatory care scheduling.

3. **Moosavi, A.**, Ozturk, O., & Patrick, J. Proactive-reactive appointment scheduling in healthcare.
4. **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). A new multi-objective mathematical model for supplier selection in uncertain environment. *13<sup>th</sup> International Conference on Industrial Engineering*.
5. **Moosavi, A.**, & Ebrahimnejad, S. (2017). Scheduling elective patients using robust optimization (in Persian). *First International Conference on Systems Optimization and Business Management*.

### Journal Review Experience

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

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

*Transportation Letters*, **three** submissions refereed

*International Journal of Logistics*, **three** submissions refereed

*International Journal of Systems Science*, **one** submission refereed

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

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

### Work Experience

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#### University of Ottawa

*Part-time Professor*, Applications of Statistical Methods in Business 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

<i>Teaching Assistant, Queuing Theory</i>	2016
<i>Teaching Assistant, Multi-Criteria Decision-Making Methods</i>	2016
<i>Research Assistant</i>	2015-2017
<ul style="list-style-type: none"> <li>• Developed mathematical models, heuristics and meta-heuristics</li> <li>• Performed statistical analysis in Minitab and Design Expert</li> <li>• Gave presentations at international and national conferences</li> </ul>	

#### *Volunteer Experience*

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##### **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 kindergarten in Iran</i>	2017-2018
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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

#### *Additional Skills*

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##### **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*

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