Curriculum Vitae

Amirhossein Moosavi

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Education

University of Ottawa — Sep 2019 – Present
PhD in Management Science — *Ontario, Canada*

Azad University — Sep 2014 – Feb 2017
MSc in Industrial Engineering (Graduated with First Class Honors) — *Tehran, Iran*

Azad University — Sep 2009 – Jun 2014
BSc in Industrial Engineering — *Tehran, Iran*

Research Interests

Healthcare management

Supply chain management

Business Analytics

Machine Learning

Awards & Honors

University of Ottawa

Thesis Presentation Competition (2nd place)	2023
PhD Engagement Award ($5,000)	2023
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.

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

3. **Moosavi, A.**, Ozturk, O., & Patrick, J. Deep-learning assisted appointment scheduling under uncertainty.

4. **Moosavi, A.**, Erfani, B., & Sauré, 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.**, & Ebrahimnejad, S. (2017). A new multi-objective mathematical model for supplier selection in uncertain environment. *13th International Conference on Industrial Engineering.*

3. **Moosavi, A.**, & Ebrahimnejad, S. (2017). Synchronous scheduling of elective and emergency patients at the operational decision-making level using robust optimization (in Persian). *First International Conference on Systems Optimization and Business Management.*

Journal Review Experience

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

Invited Talks

1. **Moosavi, A.**, Ozturk, O., & Patrick, J. Residential care scheduling under pandemic conditions. *2022 CORS/INFORMS International Conference.*

2. **Moosavi, A.** Entropy-based Evolutionary Diversity Optimization for the Patient Admission Scheduling Problem. *2022 CORS/INFORMS International Conference.*

Work Experience

University of Ottawa

Teaching Assistant, Applications of Statistical Methods in Business	2023
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

Teaching Assistant, Queuing Theory 2016

Teaching Assistant, Multi-Criteria Decision-Making Methods 2016

Research Assistant 2015-2018

- 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

The Graduate Student's Association Board Director 2020-2021

Mentor, Ms. Azita Jafarbigloo and Ms. Sandra Amyot 2019-2021

Renault Pars

Project Manager, to create a charity mobile kindergarten in Iran 2017-2018

Azad University

Mentor, Ms. Neda Rezaei, Mr. Behrad Erfani, and Mr. Adel Nikfarjam 2016-2019

Chair, Journal Club of the Industrial Engineering department 2015-2017

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 Associate Professor
Relationship: Thesis supervisor (PhD) and co-author
Tel: +1 (613) 562-5800 x4858 ozturk@telfer.uOttawa.ca

Dr. Jonathan Patrick Full Professor
Relationship: Thesis supervisor (PhD) and co-author
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Dr. Antoine Sauré Associate Professor
Relationship: Teaching supervisor (PhD), and co-author
Tel: +1 (613) 979-5790 antoine.saure@telfer.uottawa.ca

Dr. Sadoullah Ebrahimnejad Full Professor
Relationship: Thesis supervisor (MSc), and co-author
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