Fereshteh Mafakheri, PhD, PEng

Associate Professor and Canada Research Chair (CRC - Tier II)

École nationale d'administration publique (ENAP)
Université du Québec
Montreal, QC, Canada

Email: fereshteh.mafakheri@enap.ca
Research Lab: https://www.decimalab.info/

Academic Experience

Associate Professor, École nationale d'administration publique (ENAP), Université du Québec, Montreal, QC, Canada, Sept. 2026-

Canada Research Chair (CRC Tier II) in Bioenergy Transition (BioT), Feb. 2023-

Assistant Professor, École nationale d'administration publique (ENAP), Université du Québec, Montreal, QC, Canada, Sept. 2021-August 2026

Affiliate Professor, Gina Cody School of Engineering and Computer Science, Concordia University, Montreal, QC, Canada, Nov. 2018-

Extended Term Faculty (ETA), Concordia Institute of Information Systems Engineering (CIISE),Gina Cody School of Engineering and Computer Science, Concordia University, Montreal, QC, Canada 2018-2021

Limited Term Faculty (LTA), Concordia Institute of Information Systems Engineering (CIISE), Gina Cody School of Engineering and Computer Science, Concordia University, Montreal, QC, Canada 2016-2018

Senior Lecturer, Department of Systems Management, University of Greenwich, London, UK 2013-2014

Lecturer, Department of Systems Management, University of Greenwich, London,UK, 2011-2013

Research Assistant, School of Engineering and Applied Science, Yale University, New Haven, CT, USA 2010- 2011

Research Assistant, Group for Research in Decision Analysis (GERAD), HEC Montreal/McGill/UQAM, Canada 2008-2011

Research Assistant, Project Management Specialization, University of Calgary, Canada, 2006- 2007

Education

PhD in Decision Sciences
HEC Montreal (University of Montreal), Montreal, Canada

Master of Applied Science in Industrial Systems Engineering
University of Regina, Regina, Canada

Bachelor of Science in Industrial Systems Engineering
Alzahra University, Tehran, Iran

Awards

Le Prix d' excellence en recherche (Research Excellence Award), École nationale d'administration publique (ENAP), Université du Québec, 2024

Teaching Excellence Award for "Sustained Excellence in Teaching", Gina Cody School of Engineering & Computer Science (GCS), Concordia University, 2020-2021

Funding & Grants

IEA Project Funding, International Energy Agency (IEA) - Task 43, Project**:** Biohubs for Bioenergy Supply Chain Resilience, (USD$30,000), 2025-2026, Role: Principal Investigator.

Natural Resources and Engineering Research Council of Canada (NSERC), Discovery Grant Program: Coordinated Supply Chain Management Solutions for Integrating Renewable Energies in Off-grid Communities of Canada ($150,000), 2025-2030, Role: Principal Investigator

Fonds de recherche du Québec (FRQ) and Quebec Ministry of the Environment: Action concertée - Programme de recherche sur les impacts économiques des changements climatiques – volet synthèse des connaissances ($126,780), 2025-2026, Role: Co-Investigator

Social Sciences and Humanities Research Council of Canada (SSHRC), Partnership Engagement Grant: Acclimater les politiques publiques: Mieux intégrer la lutte contre les changements climatiques dans l'action gouvernementale ($25,000), 2024-2025, Role: Co-Investigator

Social Sciences and Humanities Research Council of Canada (SSHRC), Connection Grant: Évaluation prospective des impacts des Changements climatiques sur le transport terrestre au Canada d'ici 2100: fédérer les expertises, fiabiliser les anticipation ($25,000), 2024-2025, Role: Co-Investigator

Fonds de recherche du Québec et le ministère de l'Environnement, Project: Climate change and disruption of land transport in Quebec, ($442,558), 2024-2026, Role: Co-Investigator

Canada Research Chairs Program/Programme des chaires de recherche du Canada (CRC Tier II), Social Sciences and Humanities Research Council of Canada (SSHRC), ($600,000), 2023-2028, Role: Principal Investigator (plus $433,500 matching funds from ENAP)

IEA Project Funding, International Energy Agency (IEA) - Task 43, Project**:** Integrated assessment of the impact of biomass hubs/terminals in improving the efficiency and resilience of bioenergy supply chains using bi-

level simulation modeling and scenario analysis, (USD$35,000), 2023-2024, Role: Principal Investigator.

Canada Foundation for Innovation (CFI)/ La Fondation canadienne pour l'innovation (FCI) – John R. Evans Leaders Fund: Decision Modeling & Analytics Laboratory (DeciMAL), ($201,000 including $98,000 matching funds from Ministère de l'Enseignement supérieur), 2023, Role: Principal Investigator.

Reseau de recherche en economie circulaire du Quebec (RRECQ), Fonds de recherche du Québec – Société et culture (FRQSC), ($5,000,000), 2021-2025, Role: Co-Investigator

NRCan Project Funding, Natural Resources Canada (NRCan) "Agent-based Modeling and Simulation of Bioenergy Supply Chains in Canada for Bioeconomy Policy and Scenario Analysis", in collaboration with National Research Council (NRC) - Bioeconomy and Supply Chain Economics Division ($40,000), 2021, Role: Principal Investigator

MITACS Accelerate Partnership Grant, "Digitization of supply chain routing decisions", Mathematics of Information Technology and Complex Systems (MITACS) with Hitek Inc., 2021 ($15,000), Role: Principal Investigator

NSERC Discovery Grant, "Coordinated Sourcing, Logistics, and Production of Biomass-based Energy for Northern Communities of Canada", Natural Science & Engineering Research Council of Canada, 2019-2025 ($132,000), Role: Principal Investigator

RAE Competitive Investment Round Grant, University of Greenwich, Project title: "A Framework for Modeling and Optimization of Biomass-for-Heat Supply Chains", Role: Principal Investigator, 2012-2013, (£7,000)

RAE Competitive Investment Round Grant, University of Greenwich, Project title: "A Systems Approach to Modeling, Analysis, and Complexity Management of Revenue Sharing and Incentive Mechanisms in Reverse Logistics", 2011-2012,Role: Principal Investigator (£9,000)

Scholarship & Fellowship

NSERC Visiting Postdoctoral Fellowship, 2010 ($43,000) - declined

NSERC Industrial R&D Postdoctoral Fellowship, 2010 ($40,000) - declined

FQRNT PhD Scholarship, Le Fonds Québécois de la Recherche sur la Nature etles Technologies, 2009-2011 ($20,000/year)

PhD Completion Award, HEC Montreal, University of Montreal, 2010 ($12,500)

PhD Candidacy Award, HEC Montreal, University of Montreal, 2008 ($5,000)

PhD Scholarship, HEC Montreal, University of Montreal, 2008–2010($10,000/year)

Research Assistantship, HEC Montreal, University of Montreal, 2008–2009

($8,000/year)

Research Assistantship, Project Management Specialization, University of Calgary, 2006-2007 ($15,000)

Graduate Scholarship, School of Graduate Studies, University of Regina, 2005($9000)

Research Assistantship, Faculty of Engineering, University of Regina, 2005 ($5,000)

Journal Papers

[J38] Moradi, N., Mafakheri, F., Wang, C. (2026). Two-Echelon Robot-Assisted Electric Vehicle Routing Problem with Pickup Stations, *Transportation Research - Part E,* accepted-in-press. (Impact Factor: 9.3).

[J37] Berrich, O., Mafakheri, F., & Dabbou, H. (2026). Reconciling energy justice and environmental degradation: the moderating role of renewable energy. *International Journal of Sustainable Development and World Ecology*, 1–20. accepted-in-press. (Impact Factor: 7.7) https://doi.org/10.1080/13504509.2026.2682311

[J36] Mohagheghi, O., Mafakheri, F., Nasiri, F., Gagnon, B., Prinz, R., Bergström, D., Brown, M. (2026). Integrating Bio-Hubs for Resilience Enhancement of Wood Pellet Supply Chains: A Market Analysis using System Dynamics, *Renewable Energy*, 272, 126015. (Impact Factor: 9.1). https://doi.org/10.1016/j.renene.2026.126015

[J35] Valipour, M., Mafakheri, F., Wang, C., Gagnon, B., Prinz, R., Bergström, D., & Brown, M. (2026). Resilience analysis of biomass supply chains under disruption propagation and recovery strategies: an agent-based approach. *INFOR: Information Systems and Operational Research*, 1–37. (Impact Factor: 1.6) https://doi.org/10.1080/03155986.2026.2666481

[J34] Berrich, O., and F.Mafakheri (2026). "Assessing the Role of Government Trust in Achieving Sustainable Development Goals: Evidence From OECD Countries." *Sustainable Development*, 1–18. (Impact Factor: 8.2) https://doi.org/10.1002/sd.71067

[J33] Mohagheghi, O., Mafakheri, F., Nasiri, F. (2026). Policy Instruments for Bioenergy Development: Review, Classification, and Systematic Analysis. *Energies*,*19*(5), 1158. (Impact Factor: 3.2). https://doi.org/10.3390/en19051158

[J32] Valipour, M., Mafakheri, F., Wang, C. (2026). An adaptive simulation-based inventory optimisation approach to enhancing biomass supply chain resilience: a case study of remote communities. *International Journal of Production Research*, accepted-in-press (Impact Factor: 7.3). https://doi.org/10.1080/00207543.2025.2594086

[J31] Moradi, N., Wang, C., & Mafakheri, F. (2025). A Systematic Review of Sustainable Ground-Based Last-Mile Delivery of Parcels: Insights from Operations Research. *Vehicles*, 7(4), 121 (Impact Factor:

2.4). https://doi.org/10.3390/vehicles7040121

[J30] Moradi, N., Mafakheri, F., Wang, C., & Baldacci, R. (2025). Robot-aided electric vehicle routing problem with lockers and prime customers prioritization. *European Journal of Operational Research* (Impact Factor: 6.0). https://doi.org/10.1016/j.ejor.2025.07.007

[J29] Vazifeh, Z., Mafakheri, F. (2025). Integrating dynamic pricing strategies and demand-driven supply planning in wood pellet supply chains: A stochastic optimization approach. *Energy Reports*, *13*, 3869-3877 (Impact Factor: 4.7). https://doi.org/10.1016/j.egyr.2025.03.038

[J28] Moradi, N., Mafakheri, F., & Wang, C. (2024). Set Covering Routing Problems: A review and classification scheme. *Computers & Industrial Engineering*, 110730 (Impact Factor: 6.7). https://doi.org/10.1016/j.cie.2024.110730

[J27] Berrich, O., Mafakheri, F., & Dabbou, H. (2024). Renewable Energy Transition and the Paris Agreement: How Governance Quality Makes a Difference?. *Energies*, *17* (17), 4238. https://doi.org/10.3390/en17174238 (Impact Factor: 3.0)

[J26] Moradi, N., Wang, C., & Mafakheri, F. (2024). Urban Air Mobility for Last-Mile Transportation: A Review. *Vehicles*, *6* (3), 1383-1414. https://doi.org/10.3390/vehicles6030066 (Impact Factor: 2.4)

[J25] Valipour, M., Mafakheri, F., Gagnon, B., Prinz, R. Bergström, D., Brown, M., Wang, C. (2024). Integrating Bio-Hubs in Biomass Supply Chains: Insights from a Systematic Literature Review, *Journal of Cleaner Production*, 467, 142930. https://doi.org/10.1016/j.jclepro.2024.142930 (Impact Factor: 11.1)

[J24] Vazifeh, Z., Mafakheri, F., An. C., Bensebaa, F. (2023). A Game Theoretic Approach to Contract-based Enviro-Economic Coordination of Wood Pellet Supply Chains for Bioenergy Production, *Sustainable Energy Research*, 10 (1), 1-15. https://doi.org/10.1186/s40807-023-00088-7

[J23] Sadaghiani, S., Mafakheri, F., & Chen, Z. (2023). Life Cycle Assessment of Bioenergy Production Using Wood Pellets: A Case Study of Remote Communities in Canada. *Energies*, 16 (15), 5697 (Impact Factor: 3.0). https://doi.org/10.3390/en16155697

[J22] Seyedan, M., Mafakheri, F., and Wang, C. (2023). Order-Up-To-Level Inventory Optimization Model using Time-Series Demand Forecasting with Ensemble Deep Learning, *Supply Chain Analytics Journal*, 3, 100024. https://doi.org/10.1016/j.sca.2023.100024

[J21] Vazifeh, Z., Mafakheri,F., An C. (2023). Coordination of Bioenergy Supply Chains under Government Incentive Policies: A Game-theoretic Analysis, *Clean Technologies and Environmental Policy*, accepted-in-press (Impact Factor: 4.700). https://doi.org/10.1007/s10098-023-02498-z

[J20] Esmaeili, F., Mafakheri, F., F. Nasiri (2023). Biomass Supply Chain Resilience: Integrating Demand and Availability Predictions into Routing Decisions Using Machine Learning, *Smart Science*, 11 (2), 293-317 (Impact Factor: 2.00). https://doi.org/10.1080/23080477.2023.2176749

[J19] Vazifeh, Z., Bensebaa, F., Shadbahr, J., Mafakheri, F., Benali, M., Vézina, P.

(2023). Forestry based products as climate change solution: Integrating life cycle assessment with techno-economic analysis, *Journal of Environmental Management*, 330. 117197 (Impact Factor: 8.91). https://doi.org/10.1016/j.jenvman.2022.117197

[J18] Daneshmand, M., Noroozi, F., Corneanu, C., Mafakheri, F., and Fiorini, P. (2023). Industry 4.0 and Prospects of Circular Economy: A Survey of Robotic Assembly and Disassembly, *International Journal of Advanced Manufacturing Technology*, 124 (9), 2973–3000 (Impact Factor: 3.563). https://doi.org/10.1007/s00170-021-08389-1

[J17] Seyedan, S. M., Mafakheri, F. and Wang, C. (2022). Cluster-Based Demand Forecasting Using Bayesian Model Averaging: An Ensemble Learning Approach, *Decision Analytics*, 3, 100033. https://doi.org/10.1016/j.dajour.2022.100033

[J16] Vazifeh, Z., Mafakheri, F., and An, C. (2021). Biomass Supply Chain Coordination for Remote Communities: A Game-theoretic Modeling and Analysis Approach, *Sustainable Cities and Society*, 69, 102819 (Impact Factor: 7.587). https://doi.org/10.1016/j.scs.2021.102819

[J15] Cai, M., An, C., Guy, C., Lu, C., and Mafakheri, F. (2021). Assessing the regional biogenic methanol emission from spring wheat during the growing season: A Canadian case study, *Environmental Pollution*, 287, 117602 (Impact Factor: 8.071). https://doi.org/10.1016/j.envpol.2021.117602

[J14] Khodami, S., Mafakheri, F., Zeng, Y. (2021). A system dynamics approach to comparative analysis of biomass supply chain coordination strategies, *Energies*, 14 (10), 2808 (Impact Factor: 3.0). https://doi.org/10.3390/en14102808

[J13] Seyedan, S. M. & Mafakheri, F (2020), Demand Forecasting in Supply Chain Management Using Big Data Analytics: Methods, Applications, and Research Opportunities, *Journal of Big Data* 7:53, 1-22 (Impact Factor: 10.835). https://doi.org/10.1186/s40537-020-00329-2

[J12] Mafakheri, F., Adebanjo, D., Genus,A. (2021). "Coordinating Biomass Supply Chains for Remote Communities: A Comparative Analysis of Non-cooperative and Cooperative Scenarios". *International Journal of Production Research*, 59 (15), 4615-4632. (Impact Factor: 8.568). https://doi.org/10.1080/00207543.2020.1767312

[J11] Nasiri, F., and Mafakheri, F., Adebanjo, D., Haghighat, F. (2016). "Modeling and Analysis of Renewable Heat Integration into Non-Domestic Buildings - TheCase of Biomass Boilers: A Whole Life Asset-Supply Chain Optimization Approach Using System Dynamics", *Biomass and Bioenergy*, 95, 244-256 (Impact Factor: 5.061). https://doi.org/10.1016/j.biombioe.2016.10.018

[J10] D. Adebanjo, P Samaranayake, F. Mafakheri, and T. Laosirihongthong(2016). Prioritization of Six Sigma Project Selection: A Resource-Based View and Institutional Norms Perspective, *Benchmarking: An International Journal*, 23 (7), 1983-2003 (Impact Factor: 2.60). http://dx.doi.org/10.1108/BIJ-09-2015-0086

[J9] F. Nasiri and F. Mafakheri (2015). "Postgraduate research supervision at a distance: a review of challenges and strategies", *Studies in Higher Education*,

40 (10), 1962-1969 (Impact Factor: 3.363). https://doi.org/10.1080/03075079.2014.914906

[J8] F. Nasiri and F. Mafakheri (2015). "Higher Education Lecturing and Humor: From Perspectives to Strategies", *Higher Education Studies*, 5 (5), 25-31. http://dx.doi.org/10.5539/hes.v5n5p26

[J7] A. Genus, F. Mafakheri. (2014). "A Neo-institutional Perspective of Supply Chains and Energy Security: Bioenergy in the UK", *Applied Energy*, 123, 307- 315 (Impact Factor: 9.746). https://doi.org/10.1016/j.apenergy.2014.01.084

[J6] F. Mafakheri, F.Nasiri. (2014). "Modeling of Biomass-to-Energy Supply Chain Operations: Applications, Challenges and Research Directions", *Energy Policy*, 67, 116-126 (Impact Factor: 6.142). https://doi.org/10.1016/j.enpol.2013.11.071

[J5] F. Mafakheri and F. Nasiri. (2013). "Revenue Sharing Coordination in Reverse Logistics", *Journal of Cleaner Production*, 59, 185-196 (Impact Factor: 11.1). https://doi.org/10.1016/j.jclepro.2013.06.031

[J4] F. Mafakheri, M. Breton, and S.S. Chauhan (2012). "Project-to-Organization Matching: An Integrated Risk Assessment Approach", *International Journal of IT Project Management*, 3(3), 45-59. https://doi.org/10.4018/jitpm.2012070104

[J3] F. Mafakheri, M. Breton, and A. Ghoniem (2011). Supplier Selection-Order Allocation: A Two-Stage Multiple Criteria Dynamic Programming Approach, *International Journal of Production Economics*, 132 (1), 52-57 (Impact Factor: 7.885). https://doi.org/10.1016/j.ijpe.2011.03.005

[J2] F. Mafakheri, F. Nasiri, and M. Moussavi (2008), Project Agility Assessment: An Integrated Decision Analysis Approach, *Journal of Production Planning and Control*, 19 (6), 567-576 (Impact Factor: 6.800). https://doi.org/10.1080/09537280802360884

[J1] F. Mafakheri, L. Dai, D. Slezak and F. Nasiri (2007). Project Delivery Systems Selection under Uncertainty: A Multi-Criteria Multi-Level Decision Aid Model,*ASCE Journal of Management in Engineering*, 23 (4), 200-26 (Impact Factor: 2.867). https://doi.org/10.1061/(ASCE)0742-597X(2007)23:4(200)

Books/Book Chapters

[B1] Ireland, A., Farahdel, S., Moradi, N., Wang, C., & Mafakheri, F. (2026). Equitable Community Integration of Urban Air Mobility: Challenges, Approaches, and Opportunities, In: *Next Generation Cities – An Encyclopedia* (Volume 3: Mobile, Secure, and Sharing Cities), World Scientific Series. https://doi.org/10.1142/13660-vol3

Conferences

[C32] Valipour, M., Mafakheri, F and Wang, C. (2026). An adaptive simulation-based inventory optimisation approach to enhancing biomass supply chain resilience: a case study of remote communities, *Canadian Operational Research Society* (CORS) annual conference, June 8–10, Kingston, ON. **Best**

Paper Award Runner-Up in *Forestry* Special Interest Section.

[C31] Moradi, N, Mafakheri, F & Wang, C. (2026). Two-Echelon Robot-Assisted Electric Vehicle Routing with Pickup Stations: A Matheuristic Framework for Scalable Last-Mile Distribution, *Canadian Operational Research Society* (CORS) annual conference, June 8–10, Kingston, ON.

[C30] Vazifeh, Z & Mafakheri, F. (2026). Evaluating Upstream Sustainability Risks in Biomass Supply Chains: Evidence from Quebec, *Optimization Days/Les Journées de l'Optimisation*, May 11-13, HEC Montreal, QC.

[C29] Moradi, N., Wang, C., & Mafakheri, F. (2025). Robot-assisted Electric Vehicle-based Parcel Delivery with Customer Preference and Energy Minimization, *Canadian Operational Research Society* (CORS) Annual Conference, June 9–11, 2025, Edmonton, AB, Canada.

[C28] Berrich, O., Mafakheri, F., & Dabbou, H. (2025). Renewable energy: Bridging the gap between energy justice and environmental quality, *Canadian Operational Research Society* (CORS) Annual Conference, June 9–11, 2025, Edmonton, AB, Canada.

[C27] Valipour, M., Mafakheri, F and Wang, C. (2025). Resilient and Sustainable Bioenergy Supply Chains: Insights on Storage and Replenishment Strategies under Risk Propagation, Optimization Days/Les Journées de l'Optimisation, May 12-14, Montreal, QC, Canada.

[C26] Mohagheghi, O., Mafakheri, F., and Nasiri, F. (2025). Enhancing the Resilience and Competitiveness of Canadian Wood Pellets through Bio-Hubs: A System Dynamics Approach, Optimization Days/Les Journées de l'Optimisation, May 12-14, Montreal, QC, Canada.

[C25] Valipour, M., Mafakheri, F and Wang, C. (2024). Energy Security in Remote Communities: A Resilient Bio-Hub Coordinated Biomass Supply Chain Network Design, *IISE Conference*, Montreal, May 18-21 2024, Montreal.

[C24] Moradi, N., Mafakheri, F and Wang, C. (2024). Covering Routing Problem with Robots and Parcel Lockers: A Sustainable Last-Mile Delivery Approach, *IISE Conference*, Montreal, May 18-21 2024, Montreal.

[C23] Vazifeh, Z., Mafakheri, F., An, C. (2023). Optimizing Bioenergy Supply Chain Management under Uncertainty: A Stochastic Programming Approach in Quebec Northern Communities, *PEOPLE 2023 Conference*, Montreal, QC, Aug. 7-11.

[C22] Sadaghiani, S., Mafakheri, F., Chen, Z. (2023). Impact of Wood Pellets as an Alternative Energy Source in Remote Canadian Communities: A Life Cycle Analysis, *PEOPLE 2023 Conference*, Montreal, QC, Aug. 7-11.

[C21] Vazifeh, Z., Mafakheri, F., An, C. (2023). Evaluating the Environmental Benefits of Wood Pellet Supply Chain Coordination: A Case Study of Canadian Northern Communities, *Canadian Operational Research Society (CORS) Annual Conference*, Montreal, QC, May 29-31

[C20] Seyedan, M., Mafakheri, F., Wang, C. (2023). Safety Stock Estimation Based on Forecasted Demand Distribution using Recurrent Mixture Density Network, *Canadian Operational Research Society (CORS) Annual Conference*, Montreal, QC, May 29-31

[C19] Sadaghiani, S., Mafakheri, F. and Chen, Z. (2022). Life cycle assessment of the wood pellet supply chain with a consideration of bioenergy for remote communities in Canada, International Conference of Recent Trends in Environmental Science and Engineering (RTESE'22), 5-7 June, Niagara Falls, Canada.

[C18] Seyedan, M., Wang, C., Mafakheri, F. (2022). Data-driven Inventory Optimization: A Demand Forecasting Approach. 2022 CORS/INFORMS International Conference, June 5-8, Vancouver, BC, Canada.

[C17] Esmaeili, F., Cote, R., Mafakheri, F. (2022). Using Hashing Methods to Categorize Data Into Buckets to Improve Query Execution Performance. 2022 CORS/INFORMS International Conference, June 5-8, Vancouver, BC, Canada.

[C16] Vazifeh, Z., Mafakheri, F., An, C. (2022). Bioenergy Supply Chain Coordination: A Revenue Sharing Mechanism. 2022 CORS/INFORMS International Conference, June 5-8, Vancouver, BC, Canada.

[C15] Vazifeh, Z., Khoddami, S., and Mafakheri, F. (2021). Customer churn prediction by integrating Principal Component Analysis (PCA) and classification techniques, Canadian Operational Research Society (CORS) annual conference, 7- 10 June (virtual).

[C14] Seyedan, M., Mafakheri, F. "Developing a framework for price optimization using demand forecasting feedback approach", *INFORMS Conference on Service Science* (ICSS 2020), December 19-21, 2020, (Virtual).

[C13] Mafakheri, F. "Big Data Analytics in Healthcare Supply Chain Management: A Post Pandemic Perspective", Designing A Trans-disciplinary Research on Ecology of Health Supply-Chain Networks Workshop, The *25th Society of Design and Process Science (SDPS) Conference* (Virtual), Nov. 18-20, 2020.

[C12] Mafakheri, F. "A Comparative Analysis of Cooperative and Non-cooperative Bioenergy Supply Chain Coordination for Northern Canada", *INFORMS International Conference*, Cancun, Mexico, June 9-12, 2019.

[C11] Esmaeilzadeh, S., Nasiri, F., and Mafakheri, F., "Principal role of agent- based approach in further advancements of bioenergy supply chain management", Optimization Days, Montreal, QC, Canada, May 7-9, 2018.

[C10] F. Mafakheri "Hospitals' Food Supply Chain Management: A Multi-Objective Dynamic Programming Approach", Optimization Days 2017 and 1st Canadian Healthcare Optimization Workshop (CHOW), Montreal, QC, May 8-11, 2017

[C9] F. Nasiri, and F. Mafakheri "Integrating Biomass Boilers into Non-domestic Buildings: A System Dynamics Analysis, CORS/INFORMS International Conference, Montreal, QC, June 14-17, 2015.

[C8] A. Genus, F. Mafakheri, Understanding biofuels transitions: the contribution of Scott's work on neo-institutional theory, International workshop on 'Tracing biofuel transitions: policies, practices and phase-outs', Eindhoven, The Netherlands,January 24-25, 2013.

[C7] F. Mafakheri, F. Nasiri, An Analysis of Equilibrium Coordination Incentives in Reverse Supply Chains, The 9th International Conference on Computational

Management Science (CMS 2012), Imperial College London, UK, April 18-20, 2012.

[C6] F. Mafakheri, F. Nasiri, Coordination in Reverse Supply Chains, The 53rd Annual Conference of the Operational Research Society - OR53, Nottingham, UK, September 6-8, 2011.

[C5] F. Mafakheri, and M. Breton, A Risk Based Project-to-Organization Matching System Using the Analytic Hierarchy Process, Decision Sciences Institute - The 40thAnnual Meeting, New Orleans, USA, November 14-17, 2009.

[C4] F. Mafakheri, and M. Breton, A Two Stage Multiple Criteria-dynamic Programming Approach for Supplier Selection-order Allocation, INFORMS AnnualMeeting, San Diego, USA, October 11-14, 2009.

[C3] F. Mafakheri, F. Nasiri, and L. Dai, A Multiple Criteria Decision Aid Model for Agility Assessment: Application in Software Development Projects, The IET International Conference on Agile Manufacturing (ICAM 2007), Collingwood College, Durham University, UK, 9-11 July 2007.

[C2] F. Mafakheri, Development of a Decision Support System for project delivery system selection under uncertainty, The 1st Graduate Students' Research Conference, University of Regina, Regina, Canada, April 2006.

[C1] F. Mafakheri, L. Dai, D. Slezak, and F. Nasiri, Selecting the Optimal Project Delivery System: A Rough-AHP Decision Aid, Joint IEEE / WIC / ACM International Conference on Rough Sets and Soft Computing in Intelligent Agentand Web Technologies, Compiegne, France, 2005.

Supervision

Postdoctoral Fellows/Research Associates

- Mohammad Mahdi Ahmadi, 2025-
- Zahra Vazifeh, 2024-
- Olfa Berrich, 2023-2025

PhD Students

- *Ernson Augustin*, 2026-

  Thesis Subject: TBA

- *Jean Leopold Kabami*, 2025-

  Thesis Subject: TBA

- *Omid Mohagheghi*, (Co-supervised with Fuzhan Nasiri), Gina CodySchool of Engineering and Computer Science, Concordia University, 2023-

  Thesis Subject: System Dynamics Applications in Bioenergy Supply Chains

- *Etsub Ketema Tadesse*, (Co-supervised with Sang Han), Gina CodySchool of Engineering and Computer Science, Concordia University, 2023-

  Thesis Subject: TBA

- *Nima Moradi*, (Co-supervised with Chun Wang), Gina Cody School of Engineering and Computer Science, Concordia University, 2023-

  Thesis Subject: Last Mile Delivery Vehicle Routing Problems in Supply Chain Management

3- *Mahsa Valipour*, (Co supervised with Chun Wang), PhD Student, Gina Cody School of Engineering and Computer Science, Concordia University, 2021-2025 (**graduated**)

Thesis Subject: Simulation-Driven Decision Support Frameworks for Designing Resilient and Adaptive Bioenergy Supply Chain Networks

2- *Seyedeh Mahya Seyedan* (Co supervised with Chun Wang), PhD Student, Gina Cody School of Engineering and Computer Science, Concordia University, 2018-2024 (**graduated**)

Thesis Subject: Demand Forecasting in Supply Chain Management using BigData Analytics

1- *Zahra Vazifeh* (Co supervised with Chunjiang An), PhD Student, Gina Cody School of Engineering and Computer Science, Concordia University, 2019-2023 (**graduated**)

Thesis Subject: Applications of Equilibrium Modeling & Game Theory in Biomass Supply Chain Management

MASc Students (thesis-based)

- Niloufar Habibpanah (Co-supervised with Chunjiang An), Gina Cody School of Engineering and Computer Science, Concordia University, 2026-

  Thesis Subject: TBA

- *Sanaz Arevan* (Co-supervised with Chunjiang An), Gina Cody School of Engineering and Computer Science, Concordia University, 2024-

  Thesis Subject: TBA

5- *Eleheh Mohammadzadeh*. École nationale d'administration publique (ENAP), 2022-2025 **(graduated)**

4 - *Saghar Sadaghiani* (Co-supervised with Zhi Chen), Gina Cody School of Engineering and Computer Science, Concordia University, 2021-2023 **(graduated)**

Thesis Subject: Life Cycle Analysis of Bioenergy Production

3 - *Foad Esmaeili* (Co-supervised with Fuzhan Nasiri), Gina Cody School of Engineering and Computer Science, Concordia University, 2019-2022 (**graduated**)

Thesis Subject: Biomass Supply Chain Resilience

2 - *Shohreh Khodami* (Co-supervised with Yong Zeng), Gina Cody School of Engineering and Computer Science, Concordia University, 2019-2021 (**graduated**)

Thesis Subject: System Dynamics Simulation of Bioenergy Supply Chains

forRemote Communities

1- *Sahar Esmaeelzadeh* (Co-supervised with Fuzhan Nasiri), Gina Cody School of Engineering and Computer Science, Concordia University, 2016-2018 (**graduated**).

Thesis Subject: Agent-based Modeling and Simulation of Biomass Sourcing forNorthern Communities

MSc and MBA Students (course-based final projects)

Denis Nevmitulin, MSc in Logistics and Supply Chain Management, University ofGreenwich, London, UK, 2013-2014 (graduated).

Project Title: Collaboration between Supply Chain Participants: An Emerging Paradigm of Business Relationship and Role of Information Technology.

Michael Moshiri, MSc in Logistics and Supply Chain Management, University ofGreenwich, London, UK, 2012-2013 (graduated).

Project Title: A Case study analysis of the relative cost effectiveness of providing'pre specified delivery time windows' in a B2C online retailing

Yu-Jui Chang, MSc in Logistics and Supply Chain Management, University ofGreenwich, London, UK, 2012-2013 (graduated).

Project Title: Implementing the RL System in Electronic Industry

Juan David Paz Nieves, MSc in Logistics and Supply Chain Management, Universityof Greenwich, London, UK, 2012-2013 (graduated).

Project Title: Developing warehousing management strategies in the Procter &Gamble Distribution Centre México

Emmanuel Egbo, MSc in Logistics and Supply Chain Management, University ofGreenwich, London, UK, 2011-2012 (graduated).

Project Title: The Effect of Integrating E-procurement in the UK Public SectorProcurement Systems

Maria Manriquez Torres, MSc in Logistics and Supply Chain Management, University of Greenwich, London, UK, 2011-2012 (graduated).

Project Title: Drivers and Barriers for Green Supply Chain Practices in Small andMedium-size Enterprises in Mexico

Mehmet Koyuncu, MBA, University of Greenwich, London, UK, 2013-2014 (graduated).

Project Title: Analysing Impact of Distribution Performance over General Supply Chain Performance in Turkey through Fuzzy Analytic Hierarchy Process

Claire Tye, MBA, University of Greenwich, London, UK, 2011-2014 (graduated).

Project Title: Minimising supply chain risk when obsolescing product from itshost plant

Shiraz Noorani, MBA, University of Greenwich, London, UK, 2011-2012 (graduated).

Project Title: An AHP Based Methodology for Business Process Outsourcing ofa Contact Centre

Teaching

@ENAP (2021-present)

Gestion de projets (2021-present)
Gestion de données massives et prise de décision (2024-present)

@Concordia University (2014-2021)

Principles of Systems Engineering
Quality Assurance in Supply Chain Management
Risk Analysis
Total Quality Project Management
Engineering Management
Production Engineering
Lean Manufacturing

@University of Greenwich (2011-2014)

Project Planning and Control
Advanced Project Management
Operations Management
Supply Chain Modeling and Analysis
Quantitative Methods
Creativity, Decision Making, and Innovation

@Yale University (2010)

Green Supply Chain Management

Certificates

Postgraduate Certificate in Teaching and Learning in Higher Education (PGCert),Higher Education Academy, UK 2012

Teaching & Learning in Higher Education, McGill University, Montreal, Canada,2008

Teaching Development Certificate, Teaching Development Center, University of Regina, Canada 2005

Professional/Scientific Services

Editorial Activities

Associate Editor, Supply Chain Analytics (Elsevier), 2024 -

Associate Editor, Decision Analytics (Elsevier), 2024 -

Associate Editor, Digital Transformation and Society (Emerald), 2022 -

Guest Editor, Special Issue: Modeling and Analysis of Biomass-to-Energy Supply Chains, Energies Journal, 2021-2022.

Reviewer (Journals and Conferences)
Annals of Operations Research
European Journal of Operational Research
International Journal of Production Economics
International Journal of Production Research
Journal of Cleaner Production
Journal of Production Planning & Control
Journal of Information Sciences
Journal of Energies
International Journal of Energy Research
Biomass and Bioenergy
Sustainable Cities and Society
Academy of Management Learning & Education Journal.
International Journal of Management Science and Engineering Management.
Journal of Computational Management Science.
The Decision Sciences Institute Annual Conference
36th International Symposium on Automation and Robotics in Construction (ISARC), May 21-24, 2019, Banff, AB, Canada.

Organizing

Session Chair, Renewable Energy Optimization Session, *Optimization Days*, Montreal, Canada, May 12-14, 2025

Session Chair, Transport, Logistics and the Environment, *PEOPLE 2023*, Montreal, QC, Canada, August 9-11.

Session Chair, Data Analytics & Optimization in Public Sector, *INFORMS 2022 International Conference*, Vancouver, Canada, June 5-8, 2022.

Member, Program Technical Committee, *IEEE International Symposium on Technology and Society* (ISTAS), 28-31 October, 2021.

Program Committee member and panelist, *SDPS (Society for Design and Process Science) 2020*, 25th anniversary - First online conference, November 18-20, 2020.

Track Chair, *7th CSCE Construction Specialty/CRC Conference*, June 12-15 2019,Laval, QC.

Session Chair, Supply Chain Modelling, *INFORMS 2019 International Conference*,June 9-12, 2019, Cancun, Mexico.

Session Chair, Sustainable Supply Chain, *The OR56 Conference*, The OR Society,September 9-11, 2014, Surrey, UK.

Session Chair, Manufacturing stream, *YoungOR18 Conference*, The OR Society,April 9-11, 2013, Exeter, UK.

Session Chair, New Product Development and Project Management track, *The 40th Decision Sciences Institute Annual Conference*, November 14-17, 2009, New Orleans, USA.

Funding Agencies Committees/Proposal Reviews

Program Review Committee Member, Visage Municipal, Fonds de recherché du Québec - Nature et technologies (FRQNT)

Reviewer, Canadian Agri-Food Automation and IntelligenceNetwork (CAAIN)

Reviewer, UK ESRC Research Council

Institutional Services

Member, Comité EDI, École nationale d'administration publique (ENAP), Université du Québec, Montreal, QC, Canada, 2024-

Member, Comité de Formation recherche, École nationale d'administration publique (ENAP), Université du Québec, Montreal, QC, Canada, 2024-

Member, Comité de programmes (2e cycle), École nationale d'administration publique (ENAP), Université du Québec, Montreal, QC, Canada, 2022-

Member, Comité des bourses, École nationale d'administration publique (ENAP), Université du Québec, Montreal, QC, Canada, 2022-

Examiner (Graduate Examination Committees) - Master's and PhD Examinations, 2019-

Member, Dean's Committee on Engineering, Technology and Societal Transformation, Gina Cody School of Engineering and Computer Science, 2019-2020.

Member, Departmental Curriculum Committee, Concordia Institute for Information Systems Engineering (CIISE), 2018-2021.

Member, Teaching & Learning Committee, Concordia Institute for Information Systems Engineering (CIISE), 2018-2021

Founding Member, Sustainability, Technology and Innovation Research Group (STIR), University of Greenwich, 2011-2014.

In Media

Recherche universitaire @ ENAP: L'ENAP obtient plus d'un million de dollars en fonds de recherche sur les changements climatiques

Recherche universitaire @ ENAP: Succès majeurs - Octrois de deux nouvelles Chaires de recherche du Canada et d'un renouvellement pour trois membres de la communauté de recherche

Invited Speaker, Digital Strategy Speaker Series (Ask Us about AI), Office of Research, Concordia University: https://www.concordia.ca/next-gen/digital-strategy/speakers-series.html , 2020

Affiliations

Centre de recherche sur la gouvernance (CERGO)

Réseau de recherche en économie circulaire du Québec (RRECQ)

Centre interuniversitaire de recherche sur les reseaux d'entreprise, la logistique et le transport (CIRRELT)

Memberships

Canadian Operational Research Society (CORS)
Production and Operations Management Society (POMS)
Institute for Operations Research and the Management Sciences (INFORMS)
Project Management Institute (PMI)
Association of Professional Engineers and Geo-scientists of SK (APEGS)

Industry Experience

Data Analyst, National Organization for Educational Planning, Tehran, Iran, 2002-2003

Systems Analyst, Systems Automation & Productivity Research Center, Sharif University of Technology, Tehran, Iran, 2001-2002

Quality Assurance Expert, Iran Standards & Quality Inspection Co. (ISQI), Tehran,Iran, 2000-2001