

Jamal Abdul Nasir



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Academic Qualification

2013-2018 Ph.D.: City University of Hong Kong, Systems Engineering and Engineering Management.
2011-2013 Master: Korea Advanced Institute of Science and Technology, Industrial and Systems Engineering.
2004-2009 BS/BA: University of the Punjab, Industrial Engineering and Management.

Working Experience

2023-Present Assistant Professor / Macau University of Science and Technology
2022-2023 Post-doctoral fellow / The University of Hong Kong
2018-2020 Research assistant / Post-doctoral fellow / The University of Hong Kong
2009-2011 Officer Industrial Engineering and Planning, Interloop Limited

Teaching Activities

Global Operations and Supply Chain Management, Operations Analysis, Business Forecasting, Management Information Systems

Research Areas

Health care service delivery, Logistics and Supply chain management, Systems modeling and optimization, Data-driven analytics and decision making

Research Grants

2023-2024: Optimization of home healthcare transportation services for dynamically prioritized patients with uncertain demands, Faculty Research Grant of Macau University of Science and Technology, **PI**

Selected Publications

- Nasir, J.A. & Kuo, Y.H., “Stochastic home care transportation with dynamically prioritized patients: An integrated facility location, fleet sizing, and routing approach”, *Transportation Research Part B: Methodological*, 184, 102949 (2024), <https://doi.org/10.1016/j.trb.2024.102949> (IF=5.8, Q1)
- Nasir, J.A., Kuo, Y.H. & Cheng, R., “Clustering-based iterative heuristic framework for a non-emergency patients transportation problem”, *Journal of Transport and Health*, 26, 101411 (2022), <https://doi.org/10.1016/j.jth.2022.101411> (IF=3.2, Q1)
- Nasir, J.A. & Kuo, Y.H., “A decision support framework for home health care transportation with simultaneous multi-vehicle routing and staff scheduling synchronization”, *Decision Support Systems*, 138, 113361 (2020), <https://doi.org/10.1016/j.dss.2020.113361> (IF=6.7, Q1)
- Nasir, J.A. & Dang, C., "Quantitative thresholds based decision support approach for the home health care scheduling and routing problem", *Health Care Management Science*, 23, 215-238 (2020). <https://doi.org/10.1007/s10729-019-09469-1> (IF = 2.3, Q1)
- Nasir, J.A., Hussain, S. & Dang, C., “An integrated planning approach towards home health care, telehealth and patients group based care”, *Journal of network and computer applications*, 117, 30–41 (2018), <https://doi.org/10.1016/j.jnca.2018.05.009> (IF= 7.7, Q1)
- Nasir, J.A. & Dang, C. “Solving a more flexible home health care scheduling and routing problem with joint patient and nursing staff selection”, *Sustainability*, 10 (1), 148 (2018). <https://doi.org/10.3390/su10010148> (IF= 3.3, Q1)

Conference Papers

- Nasir, J.A. & Dang, C., "An integrated model for home health care and patients cluster-based care," *2017 International Conference on Robotics and Automation Sciences, Hong Kong*, pp. 204-208 (2017), <http://ieeexplore.ieee.org/document/8071945/>
- Nasir, J.A. & Dang, C., “Identifying quantitative thresholds for the home health care problem.” In: *2016 IEEE symposium on computers and communication (ISCC)*, Messina, Italy, pp. 220-225 (2016), <http://ieeexplore.ieee.org/document/7543743/>

Book Chapters

- Nasir, J.A., Kuo, Y.H. & Cheng, R., "Optimizing operator's and users' objectives in non-emergency patients transportation," *Health Care Systems Engineering, Springer Proceedings in Mathematics & Statistics, HCSE 2019*, pp. 13-23 (2020), https://doi.org/10.1007/978-3-030-39694-7_2

Other Professional Activities

Session Chair

- Organized and chaired a special session on Healthcare Analytics in the *IFORS 2023 - 23rd Conference of the International Federation of Operational Research Societies* held at Universidad de Chile and Pontificia Universidad Católica de Chile, Santiago, Chile (2023).
- Organized and chaired a special session on Healthcare Operations Management in the *13th POMS-HK International Conference* held at The Hong Kong Polytechnic University, Hong Kong (2023).
- Organized and chaired a special session on OR Application in the *1st ORSHK young researchers workshop* jointly organized by operational research society of Hong Kong and Department of Industrial and Manufacturing Systems Engineering, The University of Hong Kong, Hong Kong (2022).

Reviewer for Journals

- Transportation Research Part E
- Computers and Operations Research
- IEEE Transactions on Engineering Management
- IEEE Transactions on Automation Science and Engineering
- Health Informatics Journal

Honors/Awards

- 2013 Postgraduate UGC funded studentship at City University of Hong Kong
- 2011 Master's scholarship from Korea Advanced Institute of Science and Technology
- 2011 Kaizen event & productivity enhancement certificate from Interloop Limited