MOHAMED KHARBECHE

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https://www.researchgate.net/profile/Mohamed_Kharbeche

https://scholar.google.com/citations?user=t_9LjJkAAAAJ&hl=fr&oi=sra

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ACADEMIC EXPERIENCE (16 YEARS)

Since October 2014
Research Associate, Qatar Transportation and Traffic Safety Center, Qatar University, Qatar.

January 2011- September 2014
Postdoctoral Fellow, Mechanical and Industrial Engineering Department, Qatar University, Qatar.

July 2009- December 2010
Lecturer and Research Engineer, Université De Technologie De Compiègne (Utc), France.

August 2006- June 2009
Lecturer at High School of Economic and Commercial Sciences (ESSEC), Tunisia.

EDUCATION

April 2011
Ph.D. in Management (sp. Operations Research) / Higher Institute of Management (ISG), University of Tunis, Tunisia.
Thesis title: Exact and Heuristic Methods for Generalized Permutation Flow Shop Problems. **Supervisor**: Prof. Mohamed Haouari.

July 2006
M. Sc. in Modeling (sp. Operations Research) / Higher Institute of Management (ISG), University of Tunis, Tunisia.
Supervisor: Prof. Mohamed Haouari.

July 2004
B. Sc. Economics (sp. Financial and Banking Economics) / High School of Economic and Commercial Sciences (ESSEC), University of Tunis.

June 1999
Baccalaureate in Mathematics / Technical School of Menzel Temime, Tunisia.

RESEARCH INTERESTS

Design and analysis of exact and approximate solution procedures for combinatorial optimization problems, with applications in: Manufacturing, Robotic cell scheduling, Machine & Aircraft scheduling, Retail operations management, Transportation & Traffic Safety, Supply Chain Management.

PUBLICATIONS

BOOK CHAPTER:

1. Al-Salem, M., Haouari, M., **Kharbeche, M.**, & Khallouli, W. (2016). A free-slack-based genetic algorithm for the robotic cell problem with controllable processing times. In Heuristics, Metaheuristics and Approximate Methods in Planning and Scheduling (pp. 77-93). Springer, Cham.

INTERNATIONAL REFEREED JOURNALS:

1. Jabbar, R., Fetais, N., **Kharbeche, M.**, Krichen, M., Barkaoui, K. & Shinoy, M., (2021). Blockchain for The Internet of Vehicles: How to use Blockchain to secure Vehicle-to-Everything (V2X) Communication and Payment. IEEE Senors, 21, 15807-15823.
2. Muley, D., Mohammad, A., Ghanim, M., **Kharbeche, M.** (2021). Quantifying the Impact of Covid-19 Preventive Measures on Traffic in the State of Qatar. Transport Policy, 103, 45-59.
3. Jiang, S., Jafari, M., **Kharbeche, M.**, Jalayer, M., & Al-Khalifa, K. N. (2020). Safe Route Mapping of Roadways Using Multiple Sourced Data. IEEE Transactions on Intelligent Transportation Systems, doi: 10.1109/TITS.2020.3032643.
4. Jabbar, R., **Kharbeche, M.**, Al-Khalifa, K., Krichen, M., & Barkaoui, K. (2020). Blockchain for the internet of vehicles: a decentralized IoT solution for vehicles communication using Ethereum. Sensors, 20(14), 3928.
5. Downey, L. T., Saleh, W., Muley, D., & **Kharbeche, M.** (2019). Pedestrian crashes at priority-controlled junctions, roundabouts, and signalized junctions: The UK case study. Traffic injury prevention, 20(3), 308-313.
6. Arbabzadeh, N., Jafari, M., Jalayer, M., Jiang, S., & **Kharbeche, M.** (2019). A hybrid approach for identifying factors affecting driver reaction time using naturalistic driving data. Transportation research part C: emerging technologies, 100, 107-124.
7. Muley, D., **Kharbeche, M.**, Alhajyaseen, W. K., & Al-Salem, M. (2019). Empirical study on pedestrian signal design and compliance in the state of Qatar. International Journal of Civil Engineering, 17(11), 1653-1666.
8. Muley, D., **Kharbeche, M.**, Alhajyaseen, W. K., & Al-Salem, M. (2019). Empirical study on pedestrian signal design and compliance in the state of Qatar. International Journal of Civil Engineering, 17(11), 1653-1666.
9. Al-Salem, M., & **Kharbeche, M.** (2017). Throughput optimization for the Robotic Cell Problem with Controllable Processing Times. RAIRO-Operations Research, 51(3), 805-818.
10. Maddah, B., **Kharbeche, M.**, Pokharel, S., & Ghoniem, A. (2016). Joint replenishment model for multiple products with substitution. Applied Mathematical Modelling, 40(17-18), 7678-7688.
11. Mrad, M., Gharbi, A., Haouari, M., & **Kharbeche, M.** (2016). An optimization-based heuristic for the machine reassignment problem. Annals of Operations Research, 242(1), 115-132.

12. Hancerliogullari, G., Rabadi, G., Al-Salem, A. H., & **Kharbeche, M.** (2013). Greedy algorithms and metaheuristics for a multiple runway combined arrival-departure aircraft sequencing problem. Journal of Air Transport Management, 32, 39-48.
13. Haouari, M., & **Kharbeche, M.** (2013). An assignment-based lower bound for a class of two-machine flow shop problems. Computers & operations research, 40(7), 1693-1699.
14. **Kharbeche, M.**, & Haouari, M. (2013). MIP models for minimizing total tardiness in a two-machine flow shop. Journal of the Operational Research Society, 64(5), 690-707.
15. **Kharbeche, M.**, Carlier, J., Haouari, M., & Moukrim, A. (2011). Exact methods for the robotic cell problem. Flexible services and manufacturing journal, 23(2), 242-261.
16. Carlier, J., Haouari, M., **Kharbeche, M.**, & Moukrim, A. (2010). An optimization-based heuristic for the robotic cell problem. European Journal of Operational Research, 202(3), 636-645.

INDEXED CONFERENCE PROCEEDINGS:

1. Muley, D., **Kharbeche, M.**, Ghonim, O., Madkoor, A., Mohamed, Y. (2021). Does Pedestrian Penalty Affect Pedestrian Behavior? A Case of the State of Qatar. Procedia computer science (Accepted).
2. Jabbar, R., Krichen, M., Shinoy, M., **Kharbeche, M.**, Fetais, N., & Barkaoui, K. (2020). A Model-Based and Resource-Aware Testing Framework for Parking System Payment using Blockchain. In 2020 International Wireless Communications and Mobile Computing (IWCMC) (pp. 1252-1259). IEEE.
3. Jabbar, R., Shinoy, M., **Kharbeche, M.**, Al-Khalifa, K., Krichen, M., & Barkaoui, K. (2020). Driver drowsiness detection model using convolutional neural networks techniques for android application. In 2020 IEEE International Conference on Informatics, IoT, and Enabling Technologies (ICIoT) (pp. 237-242). IEEE.
4. Jabbar, R., Krichen, M., **Kharbeche, M.**, Fetais, N., & Barkaoui, K. (2020). A Formal Model-Based Testing Framework for Validating an IoT Solution for Blockchain-based Vehicles Communication. In ENASE (pp. 595-602).
5. Ghanim, M., **Kharbeche, M.**, Hannun, J., Hannun, J., & Shamiyeh, K. (2020). Safety and Operational Performance of Signalized Roundabouts: A Case Study in Doha. Procedia Computer Science, 170, 427-433.
6. Jabbar, R., Shinoy, M., Kharbeche, M., Al-Khalifa, K., Krichen, M., & Barkaoui, K. (2019, December). Urban Traffic Monitoring and Modeling System: An IoT Solution for Enhancing Road Safety. In 2019 International Conference on Internet of Things, Embedded Systems and Communications (IINTEC) (pp. 13-18). IEEE.
7. Muley, D., Ghanim, M., & **Kharbeche, M.** (2018). Prediction of Traffic Conflicts at Signalized Intersections using SSAM. Procedia computer science, 130, 255-262.
8. Jabbar, R., Al-Khalifa, K., **Kharbeche, M.**, Alhajyaseen, W., Jafari, M., & Jiang, S. (2018). Real-time driver drowsiness detection for android

application using deep neural networks techniques. Procedia computer science, 130, 400-407.

9. Muley, D., Alhajyaseen, W., **Kharbeche, M.**, & Al-Salem, M. (2018). Pedestrians' Speed Analysis at Signalized Crosswalks. Procedia computer science, 130, 567-574.

10. Muley, D., **Kharbeche, M.**, Alhajyaseen, W., & Al-Salem, M. (2017). Pedestrians' Crossing Behavior at Marked Crosswalks on Channelized Right-Turn Lanes at Intersections. Procedia computer science, 109, 233-240.

11. Muley, D., Alhajyaseen, W., & Kharbeche, M. (2017). An overview of pedestrian signal setting and implementation in the State of Qatar. Procedia Computer Science, 109, 545-552.

12. Al-Salem, M., **Kharbeche, M.**, Khallouli, W., & Haouari, M. (2015). Solving the Robotic Cell Problem with Controllable Processing Times. In 2015 IEEE International Conference on Industrial Engineering and Engineering Management (IEEM), IEEE, 1179-1183.

13. Al-Salem, A., Farhadi, F., **Kharbeche, M.**, & Ghoniem, A. (2012). Multiple-runway aircraft sequencing problems using mixed-integer programming. In IIE Annual Conference. Proceedings (p. 1). Institute of Industrial and Systems Engineers (IISE).

14. Rabadi, G., Hancerliogullari, G., **Kharbeche, M.**, & Al-Salem, A. (2012). Meta-heuristics for Aircraft Arrival and Departure Scheduling on Multiple Runways. In IIE Annual Conference. Proceedings (p. 1). Institute of Industrial and Systems Engineers (IISE).

15. Gharbi, A., Azaiez, M. N., & **Kharbeche, M.** (2010). Minimizing expected attacking cost in networks. Electronic Notes in Discrete Mathematics, 36, 947-954.

16. **Kharbeche, M.**, Carlier, J., Haouari, M., & Moukrim, A. (2010). Exact method for the robotic cell problem. Electronic Notes in Discrete Mathematics, 36, 859–866.

TECHNICAL REPORTS

1. Al-Khalifa, K., F. Tarlochan, **Kharbeche, M.**, H. Allaf (2017), Study on Pedestrian Safety Enhancement in Qatar report review, Qatar Transportation and Traffic Safety Center, Qatar University, Doha, Qatar, Technical Report (ISBN: 978-9927-107-24-5).

2. Al-Khalifa, K., **Kharbeche, M.**, S. Ata Abou Nada, A. S. Hamouda (2017), Safety Performance of School Buses in Qatar report review, Qatar Transportation and Traffic Safety Center, Qatar University, Doha, Qatar, Technical Report (ISBN: 978-9927-107-19-1).

3. Al-Khalifa, K., **Kharbeche, M.** et al. (2017), Doha Expressway report review, Qatar Transportation and Traffic Safety Center, Qatar University, Doha, Qatar, Technical Report.

RESEARCH GRANTS

QNRF / MME

Mohamed Kharbeche (Lead Principal Investigator), Mohamed Haouari (PI) et al., "IoT-enabled Smart Food Supply Chain: Strengthening Food Security by Data-driven Optimization, Simulation, and Interactive Decision-Making Tools", QNRF, MME02-1004-200041 (**Awarded**).

QNRF / NPRP-S

Mohamed Kharbeche (Principal Investigator), Faris Tarlochan (Lead-PI) et al., "Dangerous Driving Behavior Interventions Through the Usage of Telematics Data: Application to Young Drivers in Qatar". QNRF, NPRP12S-0129-190017, budget USD 498,000. Jan-2020-Jan-2023.

Mohamed Kharbeche (Principal Investigator), Khalifa Al-Khalifa (Lead-PI), Mohsen Jafari. "Modeling and Simulation of Road Safety and Traffic System in the State of Qatar". QNRF, NPRP8-910-2-387, budget USD 806,615. May-2016-Nov-2019.

Mohamed Kharbeche (Principal Investigator), Mohammed Al-Salem (Lead-PI), Wafa Saleh, Maher Khelifa. "Investigating Pedestrian Crossing Behavior to Improve Pedestrian Accident Rates and Severities in the State of Qatar". QNRF, NPRP8-365-2-150, budget USD 538,668. May-2016-Jul-2018.

QNRF / UREP

Mohamed Kharbeche (Principal Investigator), Charitha Dias (Lead-PI). "Exploring the Influence of Power Paradox on Driving Behavior and Traffic Safety". QNRF, UREP26-011-5-004, budget USD 20,000. Sept-2020-Oct-2021.

Mohamed Kharbeche (Lead Principal Investigator), Imene Becheur (PI). "Quad Bike Driving Behavior in Qatar: Fatalism or Thrill Seeking". QNRF, UREP25-027-2-014, budget USD 20,000. Feb-2020-Feb-2021.

Mohamed Kharbeche (Principal Investigator), Deepti Muley (Lead-PI). "Impacts of new pedestrian laws (fines) on pedestrian safety in the state of Qatar". QNRF, UREP25-034-5-008, budget USD 20,000. Feb-2020-Feb-2021.

Mohamed Kharbeche (Lead Principal Investigator), Mohamed Ghanim (Lead-PI). "Signalized Roundabout: Safety and Operational Performance Case Study in Doha". QNRF, UREP19-038-2-015, budget USD 15,000. Jan-2017-Apr-2018.

Mohamed Kharbeche (Principal Investigator), Khalifa Al-Khalifa (Lead-PI). "Safe Transport of Hazardous Materials in Qatar". QNRF, UREP 16 - 116 - 2 – 035, budget USD 40,000. Sep-2014-Aug-2016.

Mohamed Kharbeche (Principal Investigator), Mohammed Al-Salem (Lead-PI), Abdel Magid Hamouda. "Airline flight scheduling optimization". QNRF, UREP 13 - 025 - 2 – 010, budget USD 60,000. Apr-2013-Nov-2014.

QATAR UNIVERSITY INTERNAL GRANTS

Mohamed Kharbeche (Lead Principal Investigator), "Optimization Approaches and Transport Management for School Buses in the State of Qatar". Qatar University, CENG-CG (Awarded Jan-2021).

Mohamed Kharbeche (Principal Investigator), Hiba Ahmad Abed Bawadi (Lead-PI), "Medical and Allied Health Education under COVID-19 Pandemic Emergency: The Role of Emotional Health Literacy". Qatar University Emergency Response Grant (ERG), budget USD 25,000, May-2020-Dec-2020.

Mohamed Kharbeche (Principal Investigator), Mark Major (Lead-PI), "The Doha Syntax, Phase 2: Urban Movement Network Validation of Space Syntax Model of Metropolitan Doha, State of Qatar". Qatar University, CENG-CG-118-2020/21, budget USD 75,000, Jan-2020-Dec-2021.

Mohamed Kharbeche (Principal Investigator), Nuri Onat (Lead-PI), "Alternative Fuel Bus Fleet Optimization for Sustainable Public Transportation in Qatar: Towards a Carbon Neutral World Cup 2022 and Clean School Bus System". Qatar University/Marubeni, budget 100,000USD, Aug-2020-Jul-2021.

POSTDOCTORAL GRANTS

Mohamed Kharbeche (PostDoc), Ahmad Ghoniem (Lead-PI), with Co-PI Ghaith Rabadi, Old Dominion University, and Co-LPI Mohammed Al-Salem, Qatar University, "Integrated Modeling and Optimization Approaches for Airport Terminal Area Management". QNRF, NPRP09-253-2-103, Budget: $493,032, Dec-2010-Jan-2013.

Mohamed Kharbeche (PostDoc), Bacel Maddah (Lead-PI), American University of Beirut, Lebanon, and Co-LPI Ahmad Ghoniem, University of Massachusetts, Shaligram Pokharel, Qatar University, "Cutting-Edge Optimization for Modern, Consumer-Focused Retailing". QNRF, NPRP 5-591-5-082, Budget: $511,185, 4, Dec-2012-Oct-2014.

TEACHING EXPERIENCE (11 YEARS)

Qatar University, Qatar
Graduate Level

Optimization Methods (Fall 2021)

Operations Research (Fall 2020, Spring 2020, Fall 2021)

Applied Statistics Analysis (Fall 2019)

Undergraduate Level

Probability and Statistics for Engineers (Spring 2018, Summer 2020, Fall 2020)

Engineering Economics (Spring 2017, Fall 2017, Spring 2018, Fall 2018, Spring 2019, Fall 2019)

Université de Technologie de Compiègne (UTC), France
Undergraduate Level

Algorithms and Data Structures (Fall 2009, Spring 2010)

High School of Economic and Commercial Sciences, Tunisia
Undergraduate Level

IT and IoT (Fall 2007, Spring 2008, Fall 2008, Spring 2009)

Database (Fall 2007)

Assembly Language (Fall 2006, Spring 2007)

MITX: MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Manufacturing Systems I, from MITx November 2018.
Management in Engineering I, from MITx November 2018.
Supply Chain for Manufacturing I, from MITx January 2019.
Manufacturing Process Control II, from MITx January 2019.
Supply Chains for Manufacturing II, from MITx April 2019.
Management in Engineering II, MITx June 2019.
Manufacturing Process Control II, from MITx June 2019.
Manufacturing Systems II, from MITx May 2020.

LANGUAGES

Arabic, French, English

SUPERVISION

Master Thesis:

Fall 2021: Aisha Jaralla Al Nabet, "Resilience and Robustness of Supply Chain for Fitco Detergent Factory". **Supervision**

Spring 2021: Abdulrahman Aboubakr H M Abdelzaher, "Manpower Optimization using Workload Analysis". **Supervision**

Fall 2020: Norah Mohammed Al Dossri, "Optimization Models for Multiple Resource Planning". **Co-supervision**

Ph.D.:

Fall 2021: Shabna Kalappurakkal SayedMohammed, "Riding Behavior and Safety Assessment for Food Delivery Service in Qatar". **Co-supervision**

Senior Design Projects:

Fall 2012: "Exact Method for Aircraft Scheduling under Disruptions".

Fall 2011-2012: "Exact and Heuristic Methods for Aircraft Scheduling over Multiple Runways".

COMPUTER SKILLS

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• Optimization Software: IBM ILOG CPLEX Optimization Studio, CPLEX, GUROBI, AMPL, LINDO, LINGO

• Manufacturing Software: FlexCap, AnyLogic

• Programming language: C, C++, Assembly Language x86

• Data base: SQL, Oracle: SQL*Plus, ACCESS

• Traffic Simulation software: PTV software: VISUM

• Writing Software: Scientific WorkPlace, Latex,

• Statistical Software: Eviews, SPSS

• CMS and LMS: Joomla, Blackboard, Moodle

• Certificate: Microsoft Word, Excel, PowerPoint, Outlook Express, Access

• Web Conferencing: Adobe Connect, Webex, Zoom, Microsoft Teams.

TRAINING

October 2021: Think Road Safety - Road Safety Training for External PARTNERS, World Bank Group.
October 2021: Sustainable Mobility Requires a New Policy Approach Today (Virtual Knowledge Exchange), World Bank Group.
September 2021: Supply Chain Digital Twins and Resilience Analysis
October 2020: 3 Key Things To Consider When Designing Your Supply Chain Model in anyLogistix
September 2020: Delivering Online Teaching and Learning (DOTL), Center for Excellence in Teaching and Learning (CETL), Qatar University.
July 2020: How to Evaluate Supply Chain Strategies with AnyLogistix?
October 2015: SPSS, Continuing Education Office, Qatar University.
December 2013: Project Management, Continuing Education Office, Qatar University.
July 2009: Research Engineer at Joint research unit Heuristic and Diagnoses Complex Systems
Heudiasyc: Université de Technologie de Compiègne (UTC) with Prof. Aziz Moukrim and Jacques Carlier.
April 2009: Department of Industrial Engineering, College of Engineering at King Saud University in Saudi Arabia with Prof. Anis Gharbi and Mohamed Naceur Azeiz: Solving the network attacks using combinatorial optimization techniques.
June 2007: Joint research unit Heuristic and Diagnoses Complex Systems Heudiasyc: Université de Technologie de Compiègne (UTC) with Prof. Aziz Moukrim and Jacques Carlier: The complexity of the permutation flow shop with single robot.
June 2006: Joint research unit Heuristic and Diagnoses Complex Systems Heudiasyc: Université de Technologie de Compiègne (UTC) with Prof. Aziz Moukrim and Jacques Carlier: The permutation flow shop with blocking and transportation times: scheduling of robot moves.

AFFILIATION

Since 2021: Professional Member, Institute of Industrial and Systems Engineers Society for Engineering & Management Systems.
Since 2019: Engineering Management, IEEE Transactions, United States.
Since 2016: Industrial Engineering and Operations Management Society
Since 2015: Transportation Research Board (TRB), United States
Since October 2014: Qatar Transportation and Traffic Safety Center, Qatar University.
Since 2011: Department of Mechanical & Industrial Engineering, Qatar University.
Since 2011: The Institute for Operations Research and the Management Sciences INFORMS.
Since 2011: Recherche Opérationnelle et d'Aide à la Décision ROADEF
July 2009-December 2010: Heudiasyc UMR 6599, Université de Technologie de Compiègne, Centre de Recherches de Royallieu, France.
Since 2006: Combinatorial Optimization Research Group (CORG), Unité de Recherche ROI (Recherche Opérationnelle pour l'Industrie), Ecole Polytechnique de Tunisie, La Marsa, Tunisia.

INVITED LECTURES / PRESENTATIONS

1. Jabbar, R., Al-Khalifa, K., **Kharbeche, M.**, Alhajyaseen, W., Jafari, M., & Jiang, S. (2018), Qatar Foundation Annual Research Conference, Applied Internet of Things IoT: Car monitoring system for Modeling of Road Safety and Traffic System in the State of Qatar (March 19, 2018)
2. **Kharbeche, M.** (2018), Edinburgh Napier University, A Deep Learning Solution for Driver Drowsiness Detection (July 4, 2018).
3. **Kharbeche, M.** (2018), 9th International Conference on Ambient Systems, Networks and Technologies (ANT-2018), Pedestrians' Speed Analysis at Signalized Crosswalks (May 8, 2018).
4. **Kharbeche, M.** (2018), 9th International Conference on Ambient Systems, Networks and Technologies (ANT-2018), Prediction of Traffic Conflicts at Signalized Intersections using SSAM (May 8, 2018)
5. **Kharbeche, M.** (2018), 9th International Conference on Ambient Systems, Networks and Technologies (ANT-2018), Real-time Driver Drowsiness Detection for Android Application Using Deep Neural Networks Techniques (May 8, 2018).
6. **Kharbeche, M.** (2017), 8th International Conference on Ambient Systems, Networks and Technologies (ANT-2017), An overview of pedestrian signal setting and implementation in the State of Qatar, Madeira, Portugal. (May 16, 2017).
7. **Kharbeche, M.** (2017), 8th International Conference on Ambient Systems, Networks and Technologies (ANT-2017), Pedestrians' Crossing Behavior at Marked Crosswalks on Channelized Right-Turn Lanes at Intersections, Madeira, Portugal. (May 16, 2017).
8. **Kharbeche, M.** (2017), Al-Khalifa, Qatar University Annual Research Forum, A Holistic Approach to Traffic Safety Systems in the State of Qatar, QU, Qatar. (May 3, 2017).
9. **Kharbeche, M.** (2017), Qatar University Annual Research Forum, Pedestrians' Crossing Behavior at Marked Crosswalks on Channelized Right-Turn Lanes at Intersections, QU, Qatar. (May 3, 2017).
10. **Kharbeche, M.** (2017), Research Outcome Seminar (ROS) & Roundtable on Road Safety, Modeling and Simulation of Road Safety and Traffic System in the State of Qatar, QNRF, Doha, Qatar. (April 23, 2017).
11. **Kharbeche, M.**, Al-Khalifa, K. (2016), Qatar Transport Safety Forum, Doha, Qatar, Unveiling the latest research on road safety from the Qatar Transportation and Traffic Safety Centre (October 18, 2016).
12. **Kharbeche, M.**, Al-Khalifa, K. (2016), World Day of Remembrance for Road Traffic Victims "Vital post-crash actions: Medical Care, Investigation, Justice", Improving the capacity and quality of post-crash research in Qatar (November 20, 2016).
13. **Kharbeche, M.** (2016), IATSS, Road Safety in the State of Qatar, Practices on Technologies, Systems and Culture related to Traffic Safety in Japan and Qatar (September 22, 2016).
14. **Kharbeche, M.**, 24th World International Traffic Medicine Association (ITMA), Qatar, Safety performance of school buses in the State of Qatar (November 2015).
15. **Kharbeche, M.**, Qatar University, Pricing and assortment decisions under cross-selling for retail industry (February 9, 2014).
16. **Kharbeche, M.**, Future delivery of road safety / research - Qatar perspective, National Workshop On Effective Actions On Accident Prevention to Mitigate Number of Qatar Road Accidents (October 2015).
17. **Kharbeche, M.**, A. Al-Salem, A. Ghoniem, H. Sherali (2013), INFORMS Annual Meeting, Minneapolis, USA, A Robust Genetic Algorithm for Aircraft Sequencing Over Multiple Runways (October 2013).
18. **Kharbeche, M.**, Pokharel, S., A. Ghoniem, B. Maddah (2013), INFORMS Annual Meeting, Minneapolis, USA, Product line pricing analysis in the retail industry context (October 2013).
19. **Kharbeche, M.**, Haouari, M. (2013), XXVI EURO – INFORMS, 26th European Conference on Operational Research, Rome, Italy, Heuristics for the robotic cell problem with controllable processing times (July 2013).

20. **Kharbeche, M.**, S. Azam, A. Al-nabet, S. Althalathini, A. Al-Salem (2013), XXVI EURO – INFORMS, 26th European Conference on Operational Research, Rome, Italy, Exact method for the flight track/level scheduling problem (July 2013).
21. **Kharbeche, M.**, N. A. Al-Thani, A. Al-Salem, F. A. Ansari, A. M. Hamouda, S. Al-Haidous (2012), INFORMS Annual Meeting, Phoenix, Arizona, Mathematical model for airline flight re-scheduling problem under disruptions (October 2012).
22. **Kharbeche, M.**, A. Ghoniem, H. Sherali, A. Al-Salem (2012), INFORMS Annual Meeting, Phoenix, Arizona, Aircraft rescheduling under operation disruptions (Octber 2012).
23. A. Al-Salem, **Kharbeche, M.**, Al-Haidous, S., F. Aansari, A. Ahmade, M. Daneshvar (2012), 13th International Conference on Project Management and Scheduling, Linear ordering formulations for the arrival-departure aircraft scheduling problem, Leuven, Belgium (April 2012).
24. G. Rabadi, A. Ghoniem, A. Al-Salem, **Kharbeche, M.**, G. Hancerliogullari, F. Shahrestanaki (2012), Qatar Foundation Annual Research Forum, Doha, Qatar, Aircraft scheduling on multiple runways.
25. **Kharbeche, M.**, A. Ghoniem, H. Sherali, A. Al-Salem (2011), INFORMS Annual Meeting, Charlotte, North Carolina, Enhanced formulations for aircraft sequencing over multiple runways.
26. **Kharbeche, M.** and Haouari, M. (2011), Tight lower bound for a class of two-machine flow shop problems. INFORMS Annual Meeting, Charlotte, North Carolina.
27. **Kharbeche, M.**, Carlier, J., Haouari, M., Moukrim, A. (2010), International Symposium on Combinatorial Optimization (ISCO), Hammamet, Tunisia, Exact method for robotic cell problem (March 2010).
28. A. Gharbi, M.N. Azeiz, **Kharbeche, M.** (2010), International Symposium on Combinatorial Optimization (ISCO), Hammamet, Tunisia, Minimizing expected attacking cost in networks (March 2010).
29. Carlier, J., Haouari, M., **Kharbeche, M.**, Moukrim, A. (2010), 11ème congrès de la Société Française de Recherche Opérationnelle et d'Aide à la Décision (ROADEF), Toulouse, France, Méthodes exacte et approchée pour le problème de flow shop avec robot (February 2010).
30. **Kharbeche, M.**, Université de Technologie de Compiègne, France, Méthodes exacte et approchée pour le problème de flow shop avec robot, (February 2, 2010).
31. Carlier, J., Haouari, M., **Kharbeche, M.**, Moukrim, A. (2008), 11th International Conference on Project Management and Scheduling, Istanbul, Turkey, Solving a permutation flow shop problem with blocking and transportation delays (April 2008).

COMMITTEES AND COMMUNITY SERVICE

Since 2021: Organizing Committee of the International Traffic Safety Conference, Qatar Transportation and Traffic Safety Center, Qatar University, member representing Qatar Transportation and Traffic Safety Center.

Since 2019: Technical Committee for the Qatar University Annual Research Forum & Exhibition, member & organizer representing Qatar Transportation and Traffic Safety Center.

Since 2019: College Representative, Master Thesis defense, Mechanical and Industrial Engineering Department.

Since 2018: Speed Management Working Group (Standing), formed by the National Traffic Safety Committee of the State of Qatar, member representing Qatar Transportation and Traffic Safety Center.

Since 2018: National Focus Group Pedestrian Committee / National Traffic Safety Committee of the State of Qatar, member representing Qatar Transportation and Traffic Safety Center.

2018: Technical Committee of the International Traffic Safety Conference, Qatar Transportation and Traffic Safety Center, Qatar University, member representing Qatar Transportation and Traffic Safety Center.

Since 2017: Panel Member of Senior Design Projects, Mechanical and Industrial Engineering Department

Since 2015: Compact Impact Simulator (Crash Sled) Committee, Qatar Transportation and Traffic Safety Center, Qatar University, Chair.