

Name: Dr SHAKERI Mojtaba
Designation: Scientist II
Phone number: 6590 3121
Email: Mojtaba_Shakeri@SIMTech.a-star.edu.sg
Programme: Planning and Operations Management

Introduction:

Dr. Mojtaba Shakeri is a Scientist in the Planning and Operations Management group of the Singapore Institute of Manufacturing Technology. His expertise is in combinatorial optimization with applications for supply chains and operations research. Since joining Singapore Institute of Manufacturing Technology (SIMTech) in early 2019, Dr Shakeri has been engaged in supply chain related research areas such as inventory optimization and lights-out manufacturing. Before joining SIMTech, he was an assistant professor in Qazvin Azad University and later in University of Guilan, Iran, engaged with teaching AI-related courses for both bachelor and master students for over 6 years. Dr Shakeri has supervised over 50 master students in both universities.

Research Interest:

- Logistic Design and Optimization
- Operations Research
- Evolutionary Computation
- Machine Learning
- Software Architecture

BioNotes:

2013: Doctor of Philosophy (PhD) in Computer Engineering, School of Computer Engineering, Nanyang Technological University, Singapore

2004: Master of Computer Engineering, Amirkabir University of Technology, Iran

2001: Bachelor of Computer Engineering, Amirkabir University of Technology, Iran

Publications:

1. Sharifipour, H., **Shakeri, M.**, & Haghghi, H., (2018) Structural Test Data Generation Using a Memetic Ant Colony Optimization Based on Evolution Strategies, Swarm and Evolutionary Computation, 40, 76-91.
2. **Shakeri, M.**, Low, M.Y.H., Turner, S.J., & Lee, E.W. (2016). An efficient incremental evaluation function for optimizing truck scheduling in a resource-constrained crossdock using metaheuristics. Expert Systems with Applications 45, 172-184.
3. **Shakeri, M.**, Low, M.Y.H., Turner, S.J., & Lee, E.W. (2012). A robust two-phase algorithm for the truck scheduling problem in a resource-constrained crossdock, Computers & Operations Research 39 (13), 2564-2577. (41 citations according to Google Scholar)

4. Sagharichi Ha, P. & Shakeri, M. (2016, April). License Plate Automatic Recognition based on edge detection, 5th International Conference on Artificial Intelligence and Robotics (IRANOPEN), Qazvin, Iran. (8 citations according to Google Scholar)
5. **Shakeri, M.**, Low, M.Y.H., & Lee, E.W. (2010, September). Development of a novel resource-constrained crossdocking model for the truck scheduling problem, *Emerging Technologies and Factory Automation (ETFA)*, 2010 IEEE Conference on, 1-9, doi: 10.1109/ETFA.2010.5641166 Bilbao, Spain. (8 Citations according to Google Scholar)
6. **Shakeri, M.**, Low, M.Y.H., Li, Z., & Lee, E.W. (2010, July). Two efficient constructive heuristics for scheduling trucks at crossdocking terminals, *Service Operations and Logistics and Informatics (SOLI)*, 2010 IEEE International Conference on, 177-182, doi: 10.1109/SOLI.2010.5551586 Qingdao, Shandong, China.

Grants and Awards:

- Co-principle of Road Maintenance & Transportation Organization (RMTO), Ministry of Road and Urban Development Grant - An Automatic Number Plate Recognition System Funding Amount: USD 100,000 (2015 - 2016)
- Top Student Credential 2001 - Obtained the first position among the graduates of Bachelor's Degree Programme of Amirkabir University of Technology in the Academic Year of 1997-1998.
- Research Scholarship Award 2007 - Awarded under the School of Computer Engineering of Nanyang Technological University which covered four years of tuition and 2500 Singaporean Dollar (SD) per month of living expenses for my PhD.