Maryam Radman

Assistant Professor Department of Industrial Engineering Sharif University of Technology Tehran, Iran

Tel: +98 (21) 66165706 Email: radman@sharif.edu

Research Interests

- Operations research
- Decomposition algorithms
- Large-scale optimization

Courses

- > Decomposition Methods in Optimization, Graduate Course.
- ➤ Control Project, Undergraduate Course.

Education

Sharif University of Technology, Tehran, Iran

2015-2021

PhD, Industrial Engineering

PhD thesis: Decomposition approaches to set covering and set packing problems through exploiting special structures (Case study: crew pairing problem)

Advisor: Dr. Koroush Eshghi

GPA: 19.5 out of 20, 1st rank

Defense Score: Excellent

Sharif University of Technology, Tehran, Iran

2013-2015

Master of Science, Industrial Engineering

MSc thesis: Designing a multi-service healthcare network based on the impact of patients' flow among medical services

Advisor: Dr. Koroush Eshghi

GPA: 19.13 out of 20, 1st rank

Sharif University of Technology, Tehran, Iran

2009-2013

Bachelor of Science, Industrial Engineering

Final thesis: Passenger port location selection using the fuzzy VIKOR and fuzzy TOPSIS methods and an application.

Advisor: Dr. Mohamad Reza Akbari

GPA: 18.51 out of 20, 1st rank

Publications

- ➤ Radman M., Eshghi K. (2021). Solving airline crew pairing problems through constraint partitioning. *European Journal of Industrial Engineering* (Accepted and under publication).
- Asef-vaziri, A., Kazemi, M. & **Radman, M**. (2021). The Facility Layout Instances of the Generalized Traveling Salesman Problem. *International Journal of Production Research*, 1-18. https://doi.org/10.1080/00207543.2021.1970847.
- ➤ Radman M., Eshghi K. (2021). A novel decomposition approach to set covering problems by exploiting special structures. *International Journal of Mathematics in Operational Research*. 10.1504/IJMOR.2021.10037688.
- **Radman M.**, Eshghi K. (2019). A Nested Decomposition Approach for a Large Scale Set Covering Problem: A Model with a Variety of Applications in Industry 4.0. Springer *Optimization and Its Applications* 152: 165-177. Springer, Cham. https://doi.org/10.1007/978-3-030-28565-4_17.
- ➤ Radman, M., & Eshghi, K. (2019). A framework to exploit the structure of and solve set packing problems with a semi-block-angular structure. Computers & Industrial Engineering, 106036. https://doi.org/10.1016/j.cie.2019.106036.
- ➤ **Radman, M.**, & Eshghi, K. (2018). Designing a multi-service healthcare network based on the impact of patients' flow among medical services. OR Spectrum, 40(3), 637-678. https://doi.org/10.1007/s00291-018-0519-1.
- ➤ Radman, M., & Eshghi, K. (2016). A multi-service healthcare network design with patients' choice to exchange between services. International Journal of Industrial Engineering & Production Research, 28(2), 271-287 (In Persian).
- ➤ Radman, M., & Eshghi, K. (2016, November). A multi-service Healthcare Network Design with Patients' Choice to Exchange between Services. In 2016 2nd International Conference on Artificial Intelligence and Industrial Engineering (AIIE 2016). Atlantis Press.
- ➤ Radman, M., Taherkhani, A., Akbari, M (2015, January). Passenger port location selection using the fuzzy VIKOR and fuzzy TOPSIS methods and an application. In 11th International Industrial Engineering Conference (IIEC 2015), Tehran, Iran (In Persian).

Honors & Awards

- Entering PhD Program as a Brilliant Talent. (Without Entrance Exam)
 Sharif University of Technology, Tehran, Iran.
- Outstanding Master of Science Graduate Award.
 Sharif University of Technology, Tehran, Iran.
 First place among all Industrial Engineering M.Sc. graduates.
- Entering M.Sc. Program as a Brilliant Talent. (Without Entrance Exam) 2013 Sharif University of Technology, Tehran, Iran.

	Outstanding Bachelors of Science Graduate Award. Sharif University of Technology, Tehran, Iran.	2013
	First place among all Industrial Engineering B.Sc. graduates.	
>	Selected for the National Elites Foundation Award for M.Sc. Students.	2014
>	Selected for the National Elites Foundation Award for PhD Students. 201	15-2018
>	Selected for the Ahmadi Roshan project, National Elites Foundation.	2016
>	Selected for the Dr. Chamran postdoctoral award, National Elites Foundation.	2021
>	Selected for the Dr. Shahriari award related to the admission as a faculty member in	
	universities, National Elites Foundation.	2022

Work Experiences

- Assistant Professor, Department of Industrial Engineering, Sharif University of Technology, Apr 2022-Present.
- ➤ Instructor, Department of Industrial Engineering, Sharif University of Technology, Apr 2020-Jan 2022.
- Analyst, Faraz Company, 2020.
- Senior Project Coordinator, Ahmadi Roshan project, National Elite Foundation, 2017-2018.