Motahareh Kashanian

3000 Regency Ct., Ames, IA 50010

📱 +1 (515) 3570 678 | ✉ motinaa@iastate.edu | 🔗 linkedin.com/in/Motahareh-Kashanian

Research Interests

Supply-chain design management, Multi-criteria decision making, Mathematical modeling and optimization, Data-driven stochastic optimization

Education

Iowa State University *Ames, Iowa*
Ph.D. in Industrial Engineering *2021 - Present*
- Supervisor: Dr. Sarah M Ryan
- Working as a research assistant on National Science Foundation project under Grants No. DGE-1828942 and EFMA-2132200

Iran University of Science and Technology *Tehran, Iran*
M.Sc. in Industrial Engineering *2017 - 2020*
- Supervisor: Dr. Mir Saman Pishvaee
- Thesis: Developing the robust sourcing plan of sustainable biomass portfolio: A case study of Iran

Amirkabir university of Technology *Tehran, Iran*
B.Sc. in Industrial Engineering *2011 - 2016*
- Supervisor: Dr. Kaveh M. Cyrus
- Thesis: Appraising capital management, its parts, and its correlation with organization integration and risk management

Research Experience

Supply-chain Design of chemicals from biomass *Ames, IA*
Iowa State University *2021 - Present*
- Developing a two-stage supply-chain optimization model for distributed Electrochemical manufacturing of novel monomers from biomass.

Sourcing and procurement of agricultural residues *Tehran, Iran*
Iran University of Science and Technology *2018 - 2020*
- Proposing a multi-stage stochastic portfolio for agricultural residues, then finding the best locations for cultivating them.

Publications

M. Kashanian, M.S. Pishvaee, H. Sahebi (2020) "Sustainable Biomass Portfolio Sourcing Plan Using Multi-Stage Stochastic Programming". Energy 204: 117923.

Course Projects

Scoring Clinical Patient Notes, a Competition on Kaggle *Ames, IA*
Iowa State University *Spring 2022*
- Identifying specific clinical concepts in patient notes
- Developing an automated method to map clinical concepts from an exam rubric

Designing an information system to detect MS disease with data-mining *Tehran, Iran*
Amirkabir University of Technology *Spring 2016*
- Employing decision tree tools in MATLAB.

An MSP project with time and cost analysis *Tehran, Iran*
Amirkabir University of Technology *Spring 2016*
- Working on a real project with more than 20 activities with work-breakdown structure (WBS) and an Excel Solver

Teaching Experience

Teaching Assistant *Tehran, Iran*
Iran University of Science and Technology *2019*
- Procurement Management (graduate course, 45 students)
- Operations Management (graduate course, 27 students)

Selected Courses

Ph.D Courses
Ames, IA

Iowa State University

- Network Analysis, Analysis of stochastic systems, Linear Programming
- Data-mining, Computational Optimization, Stochastic Programming

M.Sc. Courses
Tehran, Iran

Iran University of Science Technology

- Mathematical Programming, Fuzzy Logic, System Engineering, Multi-Criteria Decision Making
- Strategic Planning, Energy Systems Modeling, Economic Energy, Procurement Management

B.Sc. Selected Courses
Tehran, Iran

Amirkabir University of Technology

- Operations Research, C++ Programming, System Analysis, Information Systems Management

Skills

Programming	Python, R, C/C++, HTML, SQL
Engineering Software	MATLAB, GAMS, CPLEX, Gurobi, MSP, SPSS, Arena-Statistics*
Languages	Persian, English, Arabic, French

Workshop/Certificates/Volunteer Works

2022	**Serving as a Treasurer of Iranian Students and Scholars Association**, Iowa State University	*Ames, Iowa*
2020	**Python for Everybody Specialization**, Coursera, University of Michigan	
2017	**R Programming**, Coursera, Johns Hopkins University	
2017	**The Data Scientists Toolbox**, Coursera, Johns Hopkins University	
2017	**Customer Analytics**, Coursera, University of Pennsylvania	
2012	**ISO 9001: 2008 Description of Requirements**, TCKIT Certicate, NET-SOLAR Research Institute	

References available upon request.