



Amirkabir University of Technology
(Tehran Polytechnic)



Maryam Ashrafi

Assistant Professor
Department of Industrial Engineering &
Management Systems
System & Productivity Management

Email:

Ashrafi.mm@aut.ac.ir

Phone:

h-index (Scopus):

6

Citations (Scopus):

153

Professional Skills

#	Title	Date of activity
1	PMP Project Management Professional (PMP)®	

Supervised MSc Theses

#	Thesis title	By	Date
1	Predicting project cost using artificial intelligence: Applying the XGBOOST method	Golnaz Danikoo & Maryam Ashrafi	October 2021
2	Megaproject Cost Forecasting Considering Project Risks	Pouya Behravesht & Maryam Ashrafi	April 2021
3	Forecasting project time with Neural Networks approach considering risk and resource constraints	Fatemeh Khodayari & Maryam Ashrafi	April 2021
4	Designing a tourist destination recommendation model based on data mining methods	Shahin Rezvanian & Maryam Ashrafi	March 2021
5	Developing a Model For Project portfolio selection considering multi-projects interdependencies	Zahra Ghaleemamqeisi & Maryam Ashrafi	March 2021
6	Cost and time forecasting of project with EVM approach and considering risk and quality	Faeze Zare & Maryam Ashrafi	July 2020

7	resource - constraint project scheduling with definition of the relationship between activity duration time and resource	Sahar Khajesaeedi & Maryam Ashrafi	February 2020
8	business process modeling and improvement using stochastic models	Mahdi Noorafza & Maryam Ashrafi	October 2019
9	Development of Markov Model to Assess Project Risk	Sajad Soltan & Maryam Ashrafi	October 2019
10	Resilient project Portfolio Selection based on High Reliability Organizations Theory	Mohammad Reza Pishvaei & Maryam Ashrafi	February 2019
11	Intellectual property valuation: developing a model for patent valuation	Mohamad Mahdi Khojaste Sarkardar & Maryam Ashrafi	February 2019
12	Dynamic Project Risk Assessment Using Bayesian Network based on parameter learning	Sheida Ahmadi & Maryam Ashrafi	October 2018
13	Portfolio Selection with consideration of interdependence between projects	Mohammad Mahdi Nabati & Maryam Ashrafi	February 2018
14	Project Portfolio Selection with Consideration of Social and Environmental Impacts	Amir Teymoori & Maryam Ashrafi	February 2018

Journal Papers

Portal Records

- 1 Fahime Lotfian Deloori, S.Hassan Ghodsypour, Maryam Ashrafi, "Dynamic Portfolio Selection in Gas Transmission Projects Considering Sustainable Strategic Alignment and Project Interdependencies through Value Analysis", Sustainability, May 2021 Vol. 13, Num. 10, Page 5584-5609, May 2021,
- 2 Mohammad Mahdi Nabati, Maryam Ashrafi, "Modeling projects interdependencies to measure their synergic impacts on a project portfolio", JOURNAL OF PROJECT MANAGEMENT, February 2021 Vol. 6, Num. 3, Page 143-156, February 2021,
- 3 Darya Abbasi, Maryam Ashrafi, S.Hassan Ghodsypour, "A multi objective-BSC model for new product development project portfolio selection", EXPERT SYSTEMS WITH APPLICATIONS, December 2020 Vol. 162, Num. 0, Page 1-12, December 2020,
- 4 Maryam Ashrafi, "Forward and backward risk assessment throughout a system life cycle using dynamic Bayesian networks: A case in a petroleum refinery", QUALITY AND RELIABILITY ENGINEERING INTERNATIONAL, August 2020 Vol. 0, Num. 0, Page 1-26, August 2020,
- 5 Sajad Soltan, Maryam Ashrafi, "Predicting project duration and cost, and selecting the best action plan using statistical methods for earned value management", JOURNAL OF PROJECT MANAGEMENT, March 2020 Vol. 5, Num. 3, Page 157-166, March 2020,
- 6 Mostafa Mirzaei Aliabadi, Reza Esmaeili, Iraj Mohammadfam, Maryam Ashrafi, "Application of a Standardized Plant Analysis Risk-human Reliability Method to Pipeline Inspection Gauge Operations", Journal of Occupational Hygiene Engineering, November 2019 Vol. 6, Num. 3, Page 34-43, November 2019,
- 7 Mostafa Mirzaei Aliabadi, Reza Esmaeili, Iraj Mohammadfam, Maryam Ashrafi, "Human Reliability Analysis (HRA) Using Standardized Plant Analysis Risk-Human (SPAR-H) and Bayesian Network (BN) for Pipeline Inspection Gauges (PIG) Operation: A Case Study in a Gas Transmission Plant", HEALTH SCOPE, July 2019 Vol. 8, Num. 3, Page 1-14, July 2019,
- 8 Maryam Ashrafi, Sadjad Anzabi Zadeh, "Lifecycle risk assessment of a technological system using dynamic Bayesian networks", QUALITY AND RELIABILITY ENGINEERING INTERNATIONAL, September 2017 Vol. 0, Num. 0, Page 0-0, September 2017,

- 9 Maryam Ashrafi, Hamid Davoudpour, Vahid Khodakarami, "A Bayesian Network to Ease Knowledge Acquisition of Causal Dependence in CREAM: Application of Recursive Noisy-OR Gates", QUALITY AND RELIABILITY ENGINEERING INTERNATIONAL, June 2016 Vol. 0, Num. 0, Page 0-0, June 2016,
- 10 Maryam Ashrafi, Hamid Davoudpour, Vahid Khodakarami, "A Bayesian network based framework to evaluate reliability in wind turbines", WIND AND STRUCTURES, April 2016 Vol. 22, Num. 5, Page 0-0, April 2016,

Conference Papers

Portal Records

- 1 Behrouz Imanimehr, Hamidreza Shahabi Haghighi, Maryam Ashrafi, "An integrated model for business continuity and disaster recovery management: A case study in Iran ", The 5th International Conference on Industrial and Systems Engineering, September 2019
- 2 Behrouz Imanimehr, Hamidreza Shahabi Haghighi, Maryam Ashrafi, "An integrated model for business continuity and disaster recovery ", The 5th International Conference on Industrial and Systems Engineering, September 2019
- 3 Mohamad Mahdi Khojaste Sarkardar, Maryam Ashrafi, "Technological Capabilities Audit of Businesses Using the Best-Worst Method (Case Study: A Financial Services Provider) ", Third International Conference on Modern Developments in Management, Economics and Accounting, August 2019
- 4 Alireza Mardaneh, Maryam Ashrafi, "Deciding Whether to Stop a Project with Unsuccessful Performance Results ", 14th International Project Management Conference, February 2019
- 5 Sheida Ahmadi, Maryam Ashrafi, Mohsen Akbarpour Shirazi, "Dynamic Project Risk and Cost Assessment Using Baysian Network ", 14th International Project Management Conference, February 2019
- 6 Pezhman Abbaspour, S.Hassan Ghodsypour, Maryam Ashrafi, "A approach multi-objective to optimizing supply chain risk management ", 15th International Industrial Engineering Conference, January 2019
- 7 Atieh Karbasi, Rojin Nekoueiian, Maryam Ashrafi, Seyed Habib A. Rahmati, "Project Critical Risks Identification by FTA and FMEA Methods. Case Study: Construction Project ", 15th International Industrial Engineering Conference, January 2019
- 8 Sahar Khajesaeedi, Maryam Ashrafi, "Analysis and project risk management by FMEA method based on PMBOK standard (Case study: Construction project of Central Petrochemical Complex of Bandar Imam Khomeini) ", 15th Iran Industrial Engineering Conference, January 2019
- 9 Mohamad Mahdi Khojaste Sarkardar, Maryam Ashrafi, "Examining the Different Dimensions of Importance of Patent and the Role of Intellectual Property in creation of value in firms ", National Conference on Modern Research in Management and Industrial Engineering, December 2018
- 10 Mohammad Mahdi Nabati, Maryam Ashrafi, Kavehm. Cyrus, "Investigating the inter dependency and interactions between projects in portfolio ", International Project Management Conference, January 2018

Taught Courses

#	Course title	Description	Headlines	Date
1	Risk Management	• Familiarity with the concepts and principles of risk and risk management; • Introduction of risk management processes; • Introduction of risk identification methods and their application; • Introduction of risk analysis methods and their ap		Fall 2021
2	Risk Management	• Familiarity with the concepts and principles of risk and risk management; • Introduction of risk management processes; • Introduction of risk identification methods and their application; • Introduction of risk analysis methods and their ap		Fall 2021

3	Statistical Quality Control	To help students understand the concepts underlying statistical quality control and to develop their ability to apply those concepts to the design and management of quality control processes in industries.		Fall 2021
4	Project Risk Management and Analysis	Understanding the concepts and principles of risk, project risk and risk management; Introducing project risk identification methods and their application; Introducing project risk analysis methods and their application; Introducing project risk tre		Fall 2021
5	Stochastic Processes	Introduction to a variety of random processes and their attributes; Random process Application and Modeling to Predict and analyze Phenomena.		Spring 2021
6	Statistical Quality Control	To help students understand the concepts underlying statistical quality control and to develop their ability to apply those concepts to the design and management of quality control processes in industries.		Spring 2021
7	Project Risk Management and Analysis	Understanding the concepts and principles of risk, project risk and risk management; Introducing project risk identification methods and their application; Introducing project risk analysis methods and their application; Introducing project risk tre		Fall 2020
8	Engineering Statistics	Understand the key principles of statistics; Interpret and evaluate the kinds of data found in everyday life; Perform and interpret results from simple statistical estimation and analyses.		Fall 2020
9	Statistical Quality Control	To help students understand the concepts underlying statistical quality control and to develop their ability to apply those concepts to the design and management of quality control processes in industries.		Fall 2020
10	Risk Management	• Familiarity with the concepts and principles of risk and risk management; • Introduction of risk management processes; • Introduction of risk identification methods and their application; • Introduction of risk analysis methods and their ap		Fall 2020
11	Risk Management	• Familiarity with the concepts and principles of risk and risk management; • Introduction of risk management processes; • Introduction of risk identification methods and their application; • Introduction of risk analysis methods and their ap		Fall 2020