

Mojtaba Rezakhah

EDUCATION

Colorado School of Mines

- Postdoctoral Fellow March 2017 - Dec 2017
- PhD, Operations Research with Engineering Aug 2012- Jan 2017
- M.Sc., Mineral and Energy Economics Jan 2014- May 2015

Tarbiat Modares University (TMU)

- M.Sc. in Mining Engineering Oct 2003- Jan 2006

Isfahan University of Technology

- B.Sc. in Mining Engineering Oct 1999 - Jul2003

Publications

Journals

- Moerno E., Rezakhah, M., Newman, A., Ferreria, F., 2017, Linear Models for Stockpiling in Open-pit Mine Production Scheduling Problems. *European Journal of Operational Research* 260 (1), 212-221.
- Rezakhah, M., Newman, A., Open Pit Mine Planning with Degradation Due to Stockpiling, *Computer and Operations Research Journal*, Accepted November 2018.
- Rezakhah, M., Moerno E., Newman, A., Practical Performance of an Open Pit Mine Scheduling Model Considering Blending and Stockpiling. Submitted to *Computer and Operations Research Journal*, August 2017.
- M. Monjezi, K. Goshtasbi, M. Rezakhah and T.N. Singh, 2007 "Design of stable slopes for Songun copper mine," *Mining Technology*, Vol 116 No 3, Money Publishing, Australia.

Conferences

- Rezakhah, M., Rostami, J., 2017, Performance Prediction of Hard Rock Tunnel Boring Machines (TBMs) in Difficult Ground, *APCOM Proceedings of the 38th international symposium*, Golden, Colorado, 647-655.
- Rezakhah, M., 2017, Open Pit Mine Planning with Degradation Due to Stockpiling, *APCOM Proceedings of the 38th international symposium*, Golden, Colorado, 519-526.
- Rezakhah, M., 2015, Open Pit Mine Production Scheduling with Stockpiling, *SME Conference*, Denver, CO.
- Rezakhah, M., 2016, Open Pit Mine Scheduling with Variants on Inventory Considerations, *SME Conference*, Phoenix, AZ.
- Rezakhah, M., 2017, Linear Models for Stockpiling in Open-pit Mine Production Scheduling Problems, *SME Conference*, Denver, CO.
- Rezakhah, M., 2018, Open Pit Mine Planning with Degradation Due to Stockpiling, *SME Conference*, Minneapolis, MN.
- Rezakhah, M., 2014, Open Pit Mine Production Scheduling with Stockpiling, *INFORMS*, San Francisco, CA.
- Rezakhah, M., 2015, Open Pit Mine Scheduling with Variants on Inventory Considerations, *INFORMS 2015*, Philadelphia, PA.
- Rezakhah, M., 2016, Open Pit Mine Scheduling with Variants on Inventory Considerations and its Applications, *INFORMS*, Nashville, TN.

Teaching Assistant

Colorado School of Mines

- Mining Engineering Department: Statics. Nov 2012- Dec 2012
- Petroleum Engineering Department: Petroleum Design. Jan 2013- May 2013
- Economics & Business Department: Industrial System Simulations, Stochastic Modeling, Deterministic Optimizations, Supply Chain Management Aug 2013- May 2015
- Mechanical Engineering Department: Nonlinear Optimization, Integer Optimization. Aug 2015- Dec 2016

Computer Skills

- C++, Python, MineSight, 3DEC, FLAC, AMPL, CPLEX, Matlab, R.

Work Experience

Research Assistant

- Newmont Company

May 2014 - Dec 2017

Senior Mine Engineer

Sept 2010 - May 2012

- Fars & Khuzestan Cement Company, Iran
- Generated and implemented long-range planning procedures, Shahrood Cement Company, Iran.
- Designed the "Optimized Blending Ratio of Raw Materials" to reduce energy consumption in the kiln.
- Optimized the transportation system of raw materials from the mine to cement factory.
- Conducted all mining engineering work on multiple pre-feasibility and feasibility including pit optimization, pit designs, haulage system design, equipment sizing, and economic analysis.
- Trained long- and short-range planning engineers.

Director

May 2008 - July 2010

Kelardasht Quarry Mine, Iran

- Increased the revenue of the company by 30% in 2 years, based on selling more products.
- Provided pre-feasibility- and feasibility-level studies for replacing explosives with wire cut.

Mine Operations Engineer

May 2006 - May 2008

Tamin Cement Investment Company, Iran

- Increased the production capacity at Limestone mine.

International Experience

Board of Director Appointments

- Kelardasht Quarry Mine Company, Iran
- Farsit Ahwaz Company, Iran

July 2010 - June 2012

April 2011 - June 2012

Visiting Scholar:

Universidad Adolfo Ibáñez, Santiago, Chile

December 2015 - February 2016

Paper reviewer for:

- European Journal of Operational Research Journal
- Computer and Operations Research Journal