



## Soheil Zaremotlagh Assistant Professor

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University of Sistan and Baluchestan, Daneshgah Ave., Zahedan,  
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## Education

- ✓ MS, Mining Engineering, University of Tehran - 2003
- ✓ PhD, Mining Engineering, Amirkabir University of Technology - 2016

## Courses

1. Field Geology
2. Petrology
3. photogrammetry
4. Structural Geology
5. Economic Geology
6. Optical and Process Mineralogy and Laboratory
7. Mineralogy
8. Cartography
9. Economic Geology of Iran
10. Over BodyY Modeling
11. Exploration Geochemistry
12. Gems and gemology

## Thesis

### Master Thesis

#### 1. Presenting the exploratory model of magnesite deposits in Sistan and Baluchestan province using data mining methods

بهرروز ناروئي, [Soheil Zaremotlagh, Mohamad Javad Azinfar, Mahmoodreza Rahmatiyan, Seyed Amirasad Fatemi, Ali Akbar Daya, Pooria Akbarzadeh]

نيمسال اول سال تحصيلي 1401-1402

#### 2. Analysis of geochemical exploration data in regional using fractal geometry methods and principal component analysis 1 50000 kameshgaran

محمد شكوهي, [Ali Akbar Daya, Soheil Zaremotlagh]

نيمسال اول سال تحصيلي 00-99

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## Journals Papers

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### 2024

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#### 1. Addressing Dependent Data in Constrained Optimization Problems: A WOA-based Algorithm

Asieh Ghanbarpour, Soheil Zaremotlagh, Fahimeh Dabaghi-Zarandi

international journal of industrial electronics, control and optimization Volume: (7) 119 - 127

### 2020

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#### 2. An Effective Path-aware Approach for Keyword Search over Data Graphs

Asieh Ghanbarpour, Hassan Naderi, Soheil Zaremotlagh

journal of advances in computer engineering and technology Volume: (6) 161 - 170

### 2017

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#### 3. The use of decision tree induction and artificial neural networks for recognizing the geochemical distribution patterns of LREE in the Choghart deposit, Central Iran

Soheil Zaremotlagh,

JOURNAL OF AFRICAN EARTH SCIENCES Volume: (128) 37 - 46

### 2016

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#### 4. Detecting homogenous clusters using whole-rock chemical compositions and REE patterns: A graph-based geochemical approach

Soheil Zaremotlagh, ,

JOURNAL OF GEOCHEMICAL EXPLORATION Volume: (170) 94 - 106

#### 5. A geochemical modeling to predict the different concentrations of REE and their hidden patterns using several supervised learning methods Choghart iron deposit bafq Iran

Soheil Zaremotlagh,

JOURNAL OF GEOCHEMICAL EXPLORATION Volume: (165) 35 - 48

### 2014

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#### 6. Removal of textile dyes from aqueous solution by conducting polymer modified clinoptilolite

Soheil Zaremotlagh,

Environmental Earth Sciences Volume: (71) 2999 - 3006

### 2013

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#### 7. A comparative analysis between disjunctive kriging and ordinary kriging for estimating the reserve of a mine a case study of choghart iron ore deposit

Ali Akbar Daya, Soheil Zaremotlagh

Journal of Mining and Metallurgy Section B-Metallurgy Volume: (49) 1 - 8

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## Conferences Papers

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### 2024

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#### 1. Investigating geological structural breaks as an effective parameter on the economic extraction of decorative stones

9th National Conference on Tectonics and Structural Geology of Iran

Seyed Amirasad Fatemi, Soheil Zaremotlagh, Mohamad Javad Azinfar

#### 2. Studies of structural joints for optimal design of exploitation method and kinematic analysis of mine walls in Zahedan granitoid mass

9th National Conference on Tectonics and Structural Geology of Iran

Soheil Zaremotlagh, Mohamad Javad Azinfar, Seyed Amirasad Fatemi

#### 3. Evaluating Changes in Chemical Composition of Magnesite Ore Using Clustering Methods in Nasratabad Region

The 4th National Conference on Data Mining in Earth Sciences

Soheil Zaremotlagh, Asieh Ghanbarpour

### 2023

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#### 4. Using the clustering method to analyze geochemical data in stream sediments

The 3rd National Conference on Data Mining in Earth Sciences

Soheil Zaremotlagh, Asieh Ghanbarpour

#### 5. Evaluation of similarity criteria to identify types of rocks by Levins community recognition algorithm

The 3rd National Conference on Data Mining in Earth Sciences

Asieh Ghanbarpour, Soheil Zaremotlagh

#### 6. Investigating the geochemical characteristics of elements in Sefidabeh antimony deposit by analyzing exploration data

30th symposium of crystallography and mineralogy of Iran

### 2022

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#### 7. Investigation of the effect of joint dimensions in several criteria for estimating the amount of joint degradation in direct shear test

10th Iranian Mining Engineering Conference

Mohamad Javad Azinfar, Seyed Amirasad Fatemi, Abdolhadi Ghazvinian, Soheil Zaremotlagh

#### 8. Investigating the potential of jewelry and precious stones in Sistan and Baluchestan province and its importance in economic development

29th symposium of crystallography and mineralogy of Iran

Soheil Zaremotlagh, Fateme Saghati, Parisa Darkalehghorghich

### 9. Exploration and feasibility studies of Noukabad magnesite deposit located in the ophiolite zone of Eastern Iran

10th Iranian Mining Engineering Conference

Sobhan Shaban faiz abad, Soheil Zaremotlagh, Mohamad Javad Azinfar, MohamadMahdy Karbala, Mohammad Najafi

### 10. Analysis of geochemical data in regional explorations using principal component analysis method in the range of 1: 50,000 Kamshgaran

10th Iranian Mining Engineering Conference

Mohammad Shokuhi, Soheil Zaremotlagh, Ali Akbar Daya

### 11. Analysis of geochemical data in regional explorations using fractal geometry method in the range of 1:50,000

10th Iranian Mining Engineering Conference

Mohammad Shokuhi, Ali Akbar Daya, Soheil Zaremotlagh

### 12. Determining the direction of the mining face for the optimal extraction of blocks according to the discontinuities modeling by 3DEC software (Case study of Darenjal marble quarry)

10th Iranian Mining Engineering Conference

Seyed Amirasad Fatemi, Soheil Zaremotlagh, Mohamad Javad Azinfar, Amin Chamani

## 2021

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### 13. Using discriminant analysis method to determine the concentration pattern of rare elements in geochemical studies

28th national symposium of crystallography and mineralogy of Iran

Soheil Zaremotlagh, Asieh Ghanbarpour

## 2020

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### 14. Analysis and Modeling of Geoelectrical Data of a Copper Mineral Ore in East Azarbaijan Province

8th Iranian Mining Engineering Conference

Soheil Zaremotlagh, Mahdi Shabankareh

### 15. Study of geochemical behavior of rare-elements in iron-apatite ores located in central Iran

8th Iranian Mining Engineering Conference

Soheil Zaremotlagh, Ardeshir Hezarkhani, Asieh Ghanbarpour

### 16. Exploration study of ophiolite related ore deposits in Sistan and Baluchestan province

Soheil Zaremotlagh, Atefeh Shahraki

## 17. Exploration study of copper ore by geophysical methods in northern Isfahan province

2019

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### 18. Investigating the effects of dust storms on the environment and human societies

26th symposium of crystallography and mineralogy of Iran (SCMI)

Soheil Zaremotlagh

### 19. Geophysical studies of resistivity and induction polarization in copper ore range in Nehbandan city

26th symposium of crystallography and mineralogy of Iran (SCMI)

Soheil Zaremotlagh, Mahdi Shabankareh

### 20. Geophysical investigations using magnetometry method in Iron ore in South Khorasan province

26th symposium of crystallography and mineralogy of Iran (SCMI)

Soheil Zaremotlagh, Mahdi Shabankareh

## 2018

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### 21. Determination of the origin of dust by mineralogical and geochemical studies of their particles

25th Symposium of Crystallography and Mineralogy of Iran

Soheil Zaremotlagh, Ali Akbar Daya

### 22. Quantification of Geochemical Patterns of Rare Earth Elements in Different Minerals by Investigating the Tetrad Effects of Lanthanides

25th Symposium of Crystallography and Mineralogy of Iran

Soheil Zaremotlagh

## Executive activities

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## Research Project

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2024

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1. Conducting Diagnostic Analysis and Providing Improvement Solutions for Dana Beton Manufacturing Unit

Soheil Zaremotlagh, Seyed Amirasad Fatemi, Mohamad Javad Azinfar - 2024

2023

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2. Slope stability analysis in Sefidabe open pit antimony mine

Mohamad Javad Azinfar, Seyed Amirasad Fatemi, Soheil Zaremotlagh - 2023

3. Quick troubleshooting and providing solutions to improve Armaghane Zaris stone production unit

Seyed Amirasad Fatemi, Soheil Zaremotlagh, Mohamad Javad Azinfar - 2023

2021

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4. Assessment of closed corporation located in industrial areas of Sistan and Baluchistan province

Seyed Amirasad Fatemi, Soheil Zaremotlagh, Mohamad Javad Azinfar - 2021

2020

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5. Determining the exploitation front direction in dimension stone mining for optimal extraction of blo

Seyed Amirasad Fatemi, Soheil Zaremotlagh, Mohamad Javad Azinfar - 2020

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6. Grade modeling and estimating the reserve of deposit using nonlinear geostatistics methods

Ali Akbar Daya, Soheil Zaremotlagh -