



Curriculum Vitae

Ali Reza Arab-Amiri
B.Sc., M.Sc. & PhD.
Mining Engineering

Personal Details:

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Qualifications:

- **12th std:** Math-Physics, 1990-1994, Iran
- **B.Sc.:** Mining Engineering, 1994-1998, Shahrood University, Shahrood, Iran
Thesis topic: Evaluation of bed rock, depth of water table and aquifer in Department of Agriculture, Bastam, Shahrood.
- **M.Sc.:** Mining Engineering, 1998-2000, Isfahan University of Technology (IUT), Isfahan, Iran
Thesis topic: Evaluation of mineralization in west of Tappeh-Sorkh mine using geological, geochemical and geophysical methods
- **PhD.:** March 2010, Shahrood University of Technology, *Thesis topic:* An Improved method for inverse modeling of frequency domain helicopter electromagnetic data

Work experiences:

- Manager of Information Technology group, **Geological Survey of Iran (GSI)**, 2002-2003
- Lecturer, **Shahrood University of Technology**, 2003-till March 2010.
- Assistant Professor, **Shahrood University of Technology**, March 2010-till now.

Book:

Editor of a Guide book for *Surfer 7.02*, 2005, Geological Survey of Iran (GSI) Pub., ISBN: 964-6178-09-x, Tehran, Iran

Papers:

- 1- A. R. Arab-Amiri, 2001, Application of inverse modeling of IP data in metallic deposit exploration, 2ed mining engineering student conference, Shahrood University of Technology.
- 2- A. R. Arab-Amiri, 2001, Application of Spectral IP data in metallic deposit exploration, 2ed mining engineering student conference, Shahrood University of Technology.
- 3- A. R. Arab-Amiri, 2002, Evaluation of mineralization in west of Tappeh-Sorkh mine using geological, geochemical and geophysical methods, 21st symposium on geosciences, Geological Survey of Iran (GSI), Tehran, Iran.
- 4- A. R. Arab-Amiri, 2003, Micro lepton detection a way for ore exploration, 22nd symposium on geosciences, Geological Survey of Iran (GSI), Tehran, Iran.
- 5- A. Moradzadeh, A. R. Arab-Amiri, 2003, Interpretation and 2D data modeling of Res and IP at Payandeh mine index, 22nd symposium on geosciences, Geological Survey of Iran (GSI), Tehran, Iran.
- 6- A. R. Arab-Amiri, 2004, Systematic exploration a way for detection of more deposits, 8th symposium of geosciences society, Shahrood, Iran.
- 7- A. Moradzadeh, A. R. Arab-Amiri, 2004, parametric inverse modeling of Res and IP data at Payandeh mine index, 8th symposium of geosciences society, Shahrood, Iran.
- 8- A. Kamkar- Rouhani, A. R. Arab-Amiri, 2004, Research in improved country land geophysical database for receiving practical algorithm in Iran, 8th symposium of geosciences society, Shahrood, Iran.
- 9- A. R. Arab-Amiri, M. B. Farhadian 2004, several suggestions for increasing rate of non government section in mining industry in Iran, 8th symposium of geosciences society, Shahrood, Iran.
- 10- A. R. Arab-Amiri, N. Fathianpour, 2004, Detection of mineralization zone using interpretation of SIP and Res data in Tappeh-Sorkh (Iran Kuh), Quarterly Journal of Geosciences, Geological Survey of Iran (GSI), Tehran, Iran.
- 11- A. R. Arab-Amiri, A. Kamkar- Rouhani, 2005, create of land geophysical database in Iran as an essential work, 1st mining engineering conference, Tehran, Iran.
- 12- A. R. Arab-Amiri, 2004, Information technology and geosciences: Introducing technology parks and incubators of geosciences, 23rd symposium on geosciences, Geological Survey of Iran (GSI), Tehran, Iran.
- 13- A. R. Arab-Amiri, M. B. Farhadian 2004, Improvement of mining in the country by reviewing mining law or performing the present law in right manner, 23rd symposium on geosciences, Geological Survey of Iran (GSI), Tehran.
- 14- A. Moradzadeh, A. R. Arab-Amiri and Chakeri, Mahdi, 2005, Using of Smooth and Parametrical inverse modeling for Res and IP data , 24th symposium on geosciences, Geological Survey of Iran (GSI), Tehran, Iran
- 15- F. doulati- Ardejani, A. Moradzadeh, S.H. Tabatabaee, M. Yaghoubipour. , A. R. Arab-Amiri, 2006, Study on the possibility of the salt plug intrusion into Dehnow anticline using downward continuation of gravity data, 1st symposium on oil engineering, Tehran, Iran.
- 16- K. Talebi, F. doulati- Ardejani, A. R. Arab-Amiri, 2006, Quality evaluation of ground water using geoelectrical method in Zarrin Abad- Damqan, 25th symposium on geosciences, Geological Survey of Iran (GSI), Tehran.

- 17- A. Kamkar- Rouhani, A. R. Arab-Amiri, The process and management of geophysical information in national geophysical database of Iran since IGY, 2007 XXIV International Union of Geodesy and Geophysics (IUGG), Perugia, Italy.
- 18- A. R. Arab-Amiri, A. Moradzadeh, F. Doulati- Ardejani, M. Tolouee, 2008, 2D inverse modeling of Res and IP data for Pb and Zn exploration at Balakuh- Zanzan region, 26th symposium on geosciences, Geological Survey of Iran (GSI), Tehran.
- 19- A. Moradzadeh, F. Doulati- Ardejani, A. Kasiri, A. R. Arab-Amiri, 2008, Inverse modeling of Res and IP data for Pb and Zn exploration at Tash- Shahrood region, 26th symposium on geosciences, Geological Survey of Iran (GSI), Tehran.
- 20- D. Shokri, A. R. Arab-Amiri, A. Kamkar-Rouhani, A. Moradzadeh, M. R. Akhavan-Aghdam, 2008, Interpretation and report of Conductivity- Depth imaging (CDI) section from helicopter Electromagnetic (HEM) data in Frequency domain at Kalate Reshm- Damqan, 26th symposium on geosciences, Geological Survey of Iran (GSI), Tehran.
- 21- A. Kamkar-Rouhani, A. Moradzadeh, A. R. Arab-Amiri, A. R. Ghotbi, D. Rajabi, 2008, Suggestion an suitable algorithm to meager Resistivity- Depth of (HEM) data in Frequency domain, 13th Iranian Geophysics Conference, Geological Survey of Iran (GSI), Tehran.
- 22- A. R. Arab-Amiri, A., Moradzadeh; D., Rajabi; B., Siemon and N., Fathianpour, 2009, Definition and comparison improved Mundry's integral with Mundry's integral on HEM data inverse modeling, (in press) Quarterly Journal of Geosciences, Geological survey of IRAN.
- 23- A. R. Arab-Amiri, A., Moradzadeh; D., Rajabi; B., Siemon and N., Fathianpour, 2009, Investigation of HEM forward modeling accuracy on inverse modeling, Quarterly Journal of Geosciences (in press), Geological survey of IRAN.
- 24- A. R. Arab-Amiri, A., Moradzadeh; N., Fathianpour and D., Rajabi; 2009, Inverse modeling of helicopter electromagnetic data using Siemon's method: a case study in RABAT town, Kurdistan province, Iran, 9th international multidisciplinary scientific geo-conference (SGEM2009), Bulgaria.
- 25- D., Shokri, A. R., Arab-Amiri, A., Kamkar-Rouhani and A., Moradzadeh, 2009, interpretation of airborne electromagnetic and radiometric data: a case study, 9th international multidisciplinary scientific geo-conference (SGEM2009), Bulgaria.
- 26- D., Rajabi, A., R., Arab-Amiri, A., Kamkar-Rouhani, and A., Moradzadeh, 2009, comparison between frequency-domain helicopter electromagnetic data inversion results based on numerical solution of fast Hankel coefficients and Laplace's methods, 9th international multidisciplinary scientific geo-conference (SGEM2009), Bulgaria.
- 27- D., Shokri, A. R., Arab-Amiri, A., Kamkar-Rouhani and A., Moradzadeh, 2009, Application helicopter electromagnetic method in design, construction and maintenance of pipe lines, 2ed Iranian pipe & pipeline conference, Tehran, Iran.
- 28- D., Rajabi, A., R., Arab-Amiri, 2010, Investigation of HEM inverse modeling on vertical dyke with numerical methods, 14th Iranian geophysical conference, Tehran, Iran.
- 29- Y. Mahdizadeh, I. Piruz and A., R., Arab-Amiri, 2010, Topography and role of its correction on underground bodies forming, 14th symposium of geosciences society, Urmiah, Iran.
- 30- A. R. Arab-Amiri, A., Moradzadeh; A., Kamkar-Rouhani, N., Fathianpour, D., Rajabi and B. Siemon; 2010, Detection of fractures containing metallic mineralization by inversion of helicopter electromagnetic data using a new inverse modeling method in Alut area, Kurdistan Province, Iran, 11th International Symposium on Mineral Exploration (ISME-XI), Espoo, Finland.

Technical Report:

- 1- N. Fathianpour, A.R. Arab-Amiri, 2000, Geophysical studies in West of Tappeh-Sorkh mine (Irankuh) using Res and IP methods, Isfahan University of Technology.
- 2- A. Moradzadeh, A.R Arab-Amiri, 2003, Geophysical study using Res and IP methods in Bardsir- Kerman region, Shahrood University of Technology.
- 3- A. R. Arab-Amiri, A. Kamkar- Rouhani, 2003, Land Geophysical Database of Iran Project, Shahrood University of Technology.
- 4- A. R. Arab-Amiri, K. Talebi, 2003, Information Technology (IT) and exploration drilling (outlook of software), Shahrood University of Technology.
- 5- A. R. Arab-Amiri, K. Talebi, 2003, Information Technology (IT) and Mineral economy (outlook of software), Shahrood University of Technology.
- 6- A. R. Arab-Amiri, A. Kamkar- Rouhani, 2003, Information Technology (IT) and exploration Geophysics (Ground and airborne) (outlook of software), Shahrood University of Technology.
- 7- A.R Arab-Amiri, K. Talebi, 2003, Geophysical study using Res and IP methods in Anar-Kerman region, Shahrood University of Technology.
- 8- A.R Arab-Amiri, 2006, Geophysical study using Res and IP methods in Tash and Mojen area (Shahrood), Shahrood University of Technology.
- 9- F. Doulati Ardejani, A. R. Arab-Amiri, K. Talebi, 2006, Geophysical study in providing water for agricultural purposes in Zarrin Abad- Damqan, Report No.: 50/4830, 81p.
- 10- F. Doulati Ardejani, A. Kamkar-Rouhani, A. R. Arab-Amiri, 2008, Geophysical study using Res and IP methods in YortBaba region, Shahrood University of Technology.
- 11- A.R Arab-Amiri: Manager of Statistical interpretation of exploration works at Geological Survey of Iran (GSI) project, 2001, Geological Survey of Iran (GSI), Tehran, Iran.
- 12- A.R Arab-Amiri: Manager of Statistical interpretation of Informatics at Geological Survey of Iran (GSI) project, 2001, Geological Survey of Iran (GSI), Tehran, Iran.
- 13- A.R Arab-Amiri: Manager of Interpretation of Region exploration in Iran during 1989-1999 project, 2001, Geological Survey of Iran (GSI), Tehran, Iran.

Interested Subjects

- Airborne Electromagnetic modelling
- Resistivity and Spectral Induced Polarization data modelling
- Mining exploration
- Applied Geophysics
- Information and Communication Technology (ICT)