Curriculum Vitae

♦ Personal Information:

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Education & Position

- **Visiting Professor**, Sep-2016 to Sep-2017, Geophysical Inversion Facility Group, University of British Columbia, Vancouver, Canada.
  Research Title: The application of multi-disciplinary geophysical methods in tectonophysics, geothermal and resource studies in Iran.
  Supervisor: Prof. Douglas Oldenburg, UBC-GIF, Canada

- **Assistant Professor**, 2015-present, School of Mining Engineering, University of Tehran, Iran.

- **Ph.D in Mineral Exploration Engineering**, 2014, School of Mining Engineering, University of Tehran, Iran.
  Thesis Title: 3D Exploratory modeling of Porphyry Copper Mineralization Using New Approaches in Kerman, Sarcheshmeh.
  Supervisor:
  1- Dr. Gholam-Hossain Norouzi, School of Mining Engineering, University of Tehran, Iran.
  2- Dr. Nader Fathianpour, Department of Mining Engineering, Isfahan University of Technology, Iran.
  Advisor:
  1- Dr. Ali Gholami, Institute of Geophysics, University of Tehran, Tehran, Iran.
  2- Dr. Colin G. Farquharson, Memorial University of Newfoundland, Canada.
  GPA: 18.25 / 20.

- **M.Sc.: Mineral Exploration Engineering**, 2009, School of Mining Engineering, University of Tehran, Iran.
  Thesis Title: Gravity Data Modeling of Dehloran Bitumen Using Neural Network and Its Comparison with the Classical Methods, (with best Degree, 20/20).
  Supervisor:

	1- Dr. Gholam-Hossain Norouzi, School of Mining Engineering, University of Tehran, Iran. 2- Dr. Vahid Ebrahimzade Ardestani, Institute of Geophysics, University of Tehran, Tehran, Iran. **Advisor**: 1- Dr. Caro Lucas, School of Electrical and Computer Engineering, Tehran, Iran. GPA: 16.80 / 20.
	♦ **B.Sc.: Mineral Exploration Engineering**, 2007, School of Mining Engineering, University of Tehran, Iran. **Thesis Title**: Designing a GIS-database for salt domes of southwest of Iran (with Degree, 18/20). **Supervisor**: 1- Dr. Abbas Bahroudi, School of Mining Engineering, University of Tehran, Iran. GPA: 15.94 / 20.
	♦ **Diploma: Mathematics & Physics**, Mohammad Rasoulallah High School, Farrashband, Fars, Iran, 2003. **Top student** with best GPA 18.99 / 20.
Papers	Mohammad zadeh Moghadam, M., Fanaei, GH.A., Mirzaei, S., **Abedi, M**., 2020. Aeromagnetic data interpretation for estimating magnetic basement and concealed faults in Basiran, South Khorasan. ***Iranian Geological Quarterly***, 13 (51), 111-128.
	Elyasi, G.R., Bahroudi, A., **Abedi, M**., Rahimi, H., 2020. Weighted Photolineaments Factor (WPF): An Enhanced Method to Generate a Predictive Structural Evidential Map with Low Uncertainty, a Case Study in Chahargonbad Area, Iran. ***Natural Resources Research***.
	Talesh Hosseini, S., Asghari, O., Torabi, S.A., **Abedi, M**., 2020. An Optimum Selection of Simulated Geological Models by Multi-Point Geostatistics and Multi-Criteria Decision-Making Approaches; a Case Study in Sungun Porphyry-Cu deposit, Iran. ***Journal of Mining and Environment (JME)***.
	Abedi, M., 2020. AIRRLS: An Augmented Iteratively Re-weighted and Refined Least Squares Algorithm for Inverse Modeling of Magnetometry Data. ***Journal of Geological Research***, 1 (3), 16-27.
	Barak, S., **Abedi, M**., Bahroudi, A., 2020. A knowledge-guided fuzzy inference approach for integrating geophysics, geochemistry, and geology data in a deposit-scale porphyry copper targeting, Saveh, Iran. ***Bollettino di Geofisica Teorica ed Applicata*** 61.
	Babaei, M., **Abedi, M**., Norouzi, G.H., Kazem Alilou, S., 2020. Geostatistical Modeling of Electrical Resistivity Tomography for Imaging Porphyry Cu Mineralization in Takht-e-Gonbad Deposit, Iran. ***Journal of Mining and Environment (JME)***, 11 (1), 143-159.
	Rezapour, M.J, **Abedi, M**., Bahroudi, A., Rahimi, H., 2020. A clustering approach for mineral potential mapping: A deposit-scale porphyry copper exploration targeting. ***Geopersia*** 10 (1), 149-163.

Papers	Salarian, S., Asghari, O., **Abedi, M**., Alilou, S.K., 2019. Geostatistical and multi-fractal modeling of geological and geophysical characteristics in Ghalandar Skarn-Porphyry Cu Deposit, Iran. ***Journal of Mining and Environment (JME)***, 10 (4), 2019, 1061-1081.
	Mami Khalifani, F., Bahroudi, A., Aliyari, F., **Abedi, M.**, Yousefi, M., Mohammadpour, M., 2019. Generation of an efficient structural evidence layer for mineral exploration targeting. ***Journal of African Earth Sciences*** 160, 103609.
	Al-Farhan, M., Oskooi, B., Ardestani, V.E., **Abedi, M.**, Al-Khalidy, A., 2019. Magnetic and gravity signatures of the Kifl oil field in Iraq. ***Journal of Petroleum Science and Engineering*** 183, 1-12.
	Mami Khalifani, F., Bahroudi, A., Barak, S., **Abedi, M.**, 2019. An integrated Fuzzy AHP-VIKOR method for Gold Potential Mapping in Saqez prospecting zone, Iran. ***Earth Observation and Geomatics Engineering*** 3(1), 21-33.
	Mohammadpour, M., Bahroudi, A., **Abedi, M.**, Rahimipour, G.R., Jozanikohan, G., Mami Khalifni, F., 2019. Geochemical distribution mapping by combining number-size multifractal model and multiple indicator kriging. ***Journal of Geochemical Exploration*** 200, 13-26.
	Elyasi, G.R., Bahroudi, A., **Abedi, M.**, 2018. Risk-Based Analysis in Mineral Potential Mapping: Application of Quantifier-Guided Ordered Weighted Averaging Method. ***Natural Resources Research***.
	Oskooi, B., Rouhani, S.M.J., Omidian, S., **Abedi, M.**, 2018. Analysis of the magnetic data on the basalts in Polour area. ***JOURNAL OF RESEARCH ON APPLIED GEOPHYSICS*** 4, 323-337.
	Abedi, M., Fournier, D., Devriese, S.G.R., Oldenburg, D.W., 2018. Integrated inversion of airborne geophysics over a structural geological unit: A case study for delineation of a porphyry copper zone in Iran. ***Journal of Applied Geophysics*** 152, 188-202.
	Abedi, M., 2018. An integrated Approach to evaluate the Aji-Chai potash resources in Iran Using Potential Field Data. ***Journal of African Earth Sciences*** 139, 379-391.
	Abedi, M., Fournier, D., Devriese, S.G.R., Oldenburg, D.W., 2018. Potential field signatures along the Zagros collision zone in Iran, ***Tectonophysics*** 722, 25-42.
	Abedi, M., Bahroudi, A., 2016. A Geophysical Potential Field Study to image the Makran Subduction Zone in SE of Iran, ***Tectonophysics*** 688, 119-134.
	Mahdavi, M., Oskooi, B., **Abedi, M.**, 2016. Tectonic Investigations in Makran Accretionary Prism through Potential Field Data, ***Geodynamics Research International Bulletin*** 4, VIII-XVII.
	Oskooi, B., Henkel, H., Pedersen, L.B., Bäckström, A., **Abedi, M**., 2016. Magnetotelluric investigation on Björkö impact structure, west of Stockholm, Swede. ***Arabian Journal of Geosciences*** (accepted).
	Abedi, M., Mostafavi Kashani, S.B., Norouzi, G.H., Yousefi, M., 2017. A deposit scale mineral prospectivity analysis: A comparison of various knowledge-driven approaches for porphyry copper targeting in Seridune, Iran. ***Journal of African Earth Sciences*** 128, 127-146.
	Mohammadi, R., **Abedi, M.,** Norouzi, G.H., 2016. A Comprehensive VIKOR Method for Data Fusion in Mineral Exploration. ***Arabian Journal of Geosciences.***
	Mostafavi Kashani, S.B., **Abedi, M.,** Norouzi, G.H., 2016. Fuzzy logic mineral potential mapping for copper exploration using multi-disciplinary geo-datasets, a case study in Seridune deposit: Iran. ***Earth Science Informatics*** 9 (2), 167-181.

Papers	**Abedi, M.,** Norouzi, G.H., 2016. A General Framework of TOPSIS Method for Integration of Airborne Geophysics, Satellite Imagery, Geochemical and Geological Data. ***International Journal of Applied Earth Observation and Geoinformation*** 46, 31-44.
	Asghari, O., Sheikhmohammadi, S., **Abedi, M**., Norouzi, G.H., 2016. Multivariate geostatistics based on a model of geo-electrical properties for copper grade estimation: a case study in Seridune, Iran. ***Bollettino di Geofisica Teorica ed Applicata*** 57, 43-58.
	Oskooi, B., **Abedi, M.,** 2015. An airborne magnetometry study across Zagros collision zone along Ahvaz-Isfahan route in Iran. ***Journal of Applied Geophysics*** 123, 112–122
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	Afshar, A., **Abedi, M.,** Norouzi, G.H., Riahi, M.A., 2015. Geophysical investigation of underground water content zones using electrical resistivity tomography and ground penetrating radar: A case study in Hesarak-Karaj, Iran. ***Engineering Geology*** 196, 183–193.
	Abedi, M., Siahkoohi, H.R., Gholami, A., Norouzi, G.H., 2015. 3D Inversion of Magnetic Data through Wavelet based Regularization Method. ***Int. J. Min. & Geo-Eng.***, 49(1), 1-18.
	Hosseini, S.A., **Abedi, M.,** 2015. Data Envelopment Analysis: A knowledge-driven method for mineral prospectivity mapping. ***Computers & Geosciences*** 82, 111-119.
	Oskooi, B., **Abedi, M.,** 2015. Magnetic and electromagnetic data interpretation for delineating geological contacts in the Tomelilla area, Sweden. ***Arabian Journal of Geosciences***, 8, 3971–3984.
	Abedi, M., 2015. Reply to the comment by B. Ghobadipour and B. Mojarradi"M. Abedi, S.A. Torabi, G.-H. Norouzi and M. Hamzeh; ELECTRE III: A knowledge-driven method for integration of geophysical data with geological and geochemical data in mineral prospectivity mapping". ***Journal of Applied Geophysics*** 117, 138-140.
	Abedi, M., Mosazadeh, K., Dehghani, H. and MadanchiZare, A., 2015. Geological noise removal in geophysical magnetic survey to detect unexploded ordnance based on image filtering. ***Iranian Journal of Geophysics***, 11-23.
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	Abedi, M., Norouzi, G.H., Fathianpour, N., Gholami, A., 2013. Approximate Resistivity and Susceptibility Mapping from Airborne Electromagnetic and Magnetic data, a Case Study for a Geologically Plausible Porphyry Copper Unit in Iran. ***Journal of Mining and Environment*** 4 (2), 133-146.
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	Abedi, M., Gholami, A., Norouzi, G. H., Fathianpour, N., 2013. Fast inversion of magnetic data using Lanczos bidiagonalization method. ***Journal of Applied Geophysics*** 90, 126-137.
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	Abedi, M., Norouzi, G. H., Fathianpour, N., 2013. Fuzzy Outranking Approach: A knowledge-driven method for mineral prospectivity mapping. ***International Journal of Applied Earth Observation and Geoinformation*** 21, 556-567.
	Abedi, **M.**, Norouzi, G. H., 2012. Integration of various geophysical data with geological and geochemical data to determine additional drilling for copper exploration. ***Journal of Applied Geophysics*** 83, 35-45.
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	Abedi, M., Afshar, A., Ardestani, V. E., Norouzi. G. H., Lucas. C., 2010**.** Application of various methods for 2D inverse modeling of residual gravity anomalies. ***Acta Geophysica*** 58 (2), 317-336.
	Afshar, A., **Abedi, M.**, Norouzi. G. H., Ardestani, V. E., Lucas. C., 2010, 2D modeling of magnetic anomaly through feed forward neural network. ***Iranian Journal of Geophysics*** **4**(1), 72-83.
	Abedi, M., Afshar, A., Ardestani, V. E., Norouzi. G. H., Lucas. C., 2010. 3D modeling of gravity anomalies using the forced neural networks method. ***Iranian Journal of Geophysics*** **3**(2), 77-90.
	Abedi, M., Afshar, A., Ardestani, V. E., Norouzi. G. H., Lucas. C., 2012. 2D Forward Modeling of near surface gravity anomaly by using of Forced Neural Networks Method. ***Iranian Journal of Geosciences*** 23, 113-125.
	Afshar, A., **Abedi, M.**, Norouzi. G. H., Ardestani, V. E., 2009. Interpretation of magnetic data using AN-EUL method. ***Iranian Journal of Geosciences***.
	Abedi, **M**., Afshar, A., Ardestani, V. E., Norouzi, G., 2014. Comparison of derivative based methods with Normalized Standard Deviation for edge detection of gravity anomalies. ***Journal of the Earth and Space Physics*** 40, 13-21.
Conferences	Rahimi, M.R., Moradzadeh, A., **Abedi, M**., Arab Amiri, A., 2017. Sequential Factor Analysis for Au Exploration in Alut 1:100,000 Sheet. Research in Geosciences, Tehran, Iran.
	Seyed Mojarad, S.M., MirMohamadi, M., **Abedi, M**., 2016. Determination of Cu ore mineralization and fault density relationship in Kahang copper deposit. 1st National Conference in New Researches on Science and Engineering, Ardebil, Iran.
	Mahdavi, M., Oskooi, B., **Abedi, M**., 2016. Tectonic interpretation of potential field data in Makran accretionary prism. 17th Iranian Geophysical Conference, Tehran.
	Seyed Mojarad, S.M., MirMohamadi, M., **Abedi, M**., 2016. Comparison of lithogeochemical anomalies with geological and alteration information, 1st National Conference in New Researches on Science and Engineering, Ardebil, Iran.
	Oskooi, B., Rouhani, S.M.J., **Abedi,** M., 2016. Estimation of depth, structural index and location of Basalt sources via magnetometry data in Polur area using the combined method of AN-EUL. 2nd National Conference of Geology and Exploration Resources, Shiraz, Iran.
	Oskooi, B., Rouhani, S.M.J., **Abedi, M**., 2016. Depth Estimation of Basalt Sources in Polour Area from Magnetic Data Using the Power Spectrum Method. The 34th National & 2nd International Geosciences Congress, Tehran, Iran.
	Mostafavi Kashani, S.B., **Abedi, M**., Norouzi, G.H., 2016. Applying Fuzzy method for mineral prospecting mapping in Seridune Copper Deposit, Kerman. The 34th National & 2nd International Geosciences Congress, Tehran, Iran.

Conferences	Seyed Mojarad, S.M., **Abedi, M**., MirMohamadi, M., 2016. Geophysical Investigation of Kahang Porphyry Copper Deposit through Magnetometry Data. The 34th National & 2nd International Geosciences Congress, Tehran, Iran.
	Seyed Mojarad, S.M., MirMohamadi, M., **Abedi, M**., 2016. Investigation and Preparation of Geological Information Layers in Kahang Porphyry Copper Deposit, NE of Isfahan. The 34th National & 2nd International Geosciences Congress, Tehran, Iran.
	Ramazani, A., Oskooi, B., **Abedi, M**., 2015. Border estimation of gravity and magnetic anomalies using potential field derivatives. Geological sciences and mining with a view on the Urmia lake national Conference, Urmia, Iran.
	Abedi, M., Mosazadeh, K., Dehghani, H., MadanchiZare, A., 2014. Magnetic Signal Amplification to detect Unexploded Ordnance and Landmine in Contaminated Area. Congress, Passive defense in Science and Engineering, with emphasis on camouflage, concealment and deception, Tehran; 01/2014.
	Alilou, S.K., Norouzi, G.H., Doulati, F., **Abedi, M.**, 2014. Application of magnetometery, resistivity and induced polarization for exploration of iron and copper deposits, a case study: Anbagh-Kandi, Ahar. 32nd National & The 1st International Geosciences Congress, Iran; 02/2014.
	Alilou, S.K., Norouzi, G.H., Doulati, F., **Abedi, M.**, 2014. Analysis and Three Dimesional Modeling of Magnetometery Anomalies of Ghalanadar Ahar Cu-Fe Deposit. 2nd International Conference on Advances in Engineering Sciences and Applied Mathematics, Istanbul (Turkey); 05/2014.
	Alilou, S.K., Norouzi, G.H., Doulati, F., **Abedi, M.**, 2014. Application of magnetometery, electrical resistivity and induced polarization for exploration of polymetal deposits, A case study: Halab Dandi, Zanjan. The 16th Iranian Geophysics Conference–May 13-15.
	Alilou, S.K., **Abedi, M.**, Norouzi, G.H., Doulati, F., 2013. Application of Magnetometery, Electrical Resistivity and Induced Polarization for Exploration of Iron and Copper Skarn Deposits, a Case Study: Ghalandar, Ahar , 1st National Conference on Exploration Engineering of Underground Resources, Shahrood, Iran.
	Keshvardost, A., **Abedi, M.**, 2011. Modeling of Underground Pipe Using Magnetic Data. 8th Iranian Student Conference of Mining Engineering, Tehran, Iran.
	Abedi, M., Afshar, A., Norouzi. G. H., Ardestani, V. E., 2010. Detection of Underground Holes Using Resistivity-Microgravity data, 14th Conference of Geological Society of Iran, Orumieh, Iran.
	Afshar, A., **Abedi, M.**, Norouzi. G. H., 2010. Magnetic Anomaly Modeling through Neural Network and Inverse Modeling. 14th Iranian Geophysical Conference, Tehran, Iran.
	Abedi, M., Afshar, A., Ardestani, V. E., Norouzi, G., 2010. Enhancing Magnetic Anomalies Using Image Processing. 14th Iranian Geophysical Conference, Tehran, Iran.
	Afshar, A., **Abedi, M.**, Norouzi. G. H., 2009. Interpretation of magnetic data using Tilt angle, Euler and Analytic Signal methods. 27th Iranian Earth Science Conference, Tehran, Iran.
	Abedi, M., Afshar, A., Ardestani, V. E., Norouzi, G., 2009. Probable reservoir estimation of Bitumen ore using combined methods. 27th Iranian Earth Science Conference, Tehran, Iran.

	Abedi, M., Afshar, A., Ardestani, V. E., Norouzi, G., 2009. Using of Compact Inversion Method and Density Variation as a Stopping Criterion for 3D Modeling of Gravity Data. 1st National Conference of Earth Science, Behbahan, Iran.
	Abedi, M., Afshar, A., Ardestani, V. E., Norouzi, G., 2009. Modeling of Dehloran's Bitumen Gravity Anomaly Via Normalized Full Gradient and Analytical Signal Methods. 1st National Conference of Earth Science, Behbahan, Iran.
	Abedi, M., Afshar, A., Ardestani, V. E., Norouzi, G., 2009. Evaluation of aliasing effect at optimization of gravity grid. 3rd Iranian Conference of Mining Engineering, Yazd, Iran. (selected as best paper)
	Afshar, A., **Abedi, M.**, Norouzi. G. H., Lucas. C., 2009. Separation of local anomaly from regional through cellular neural networks, 3rd Iranian Conference of Mining Engineering, Yazd, Iran.
	Abedi, M., Afshar, A., Ardestani, V. E., Norouzi, G., 2009. Inverse modeling of gravity data using neural networks. 7th Iranian Student Conference of Mining Engineering, Tabriz, Iran.
	Afshar, A., **Abedi, M.**, Norouzi. G. H., 2009. Interpretation of magnetic anomaly caused by dyke model using Hilbert transform and neural networks, 7th Iranian Student Conference of Mining Engineering, Tabriz, Iran.
Awards & Honour	1- FOE (Faculty of Engineering) prize, top student of school of Mining Engineering, University of Tehran, 2004. 2- Top paper in the field of the Earth Sciences 2012, entitled "Integration of various geophysical data with geological and geochemical data to determine additional drilling for copper exploration". 3- Member of Iranian National Elite Foundation, 2012 4. 3rd top BSc student of school of Mining Engineering, University of Tehran, 2006. 5. 1st top PhD student of school of Mining Engineering, University of Tehran, 2014.
Job Experiences	Taking training Courses in National Iranian Oil Company (**NIOC**), 2004
	Taking training Courses in **Geological Survey of Iran** organization, 2005
Computer Skills	Geosoft, Modelvision, Arc GIS, Surfer, Res2dinv, Res2dmod, Rockworks, IPI2WIN, ENVI, Mag3D & Grav3D, Tecplot, Magpick, SPSS, SGeMS, WingLink, RadExplorer
	Matlab
Professional Skills	Mineral Prospectivity Mapping, Exploration Geophysics (Gravity, Magnetic, Induce Polarization, Resistivity, Self-Potential, Electromagnetic method), GIS & Remote Sensing, Classification and Clustering Analysis, Pattern Recognition Methods, Multi Criteria Decision Making Methods
Interested in	Inversion of Geophysical data, Interpretation of various exploratory geo-data sets, Decision making for exploratory drilling location
	1- Ladan Karimi Sharif (B.Sc) 2011, Mining Eng., University of Tehran 2- Sima Shakiba (B.Sc) 2012, Mining Eng., University of Tehran 3- Niloufar Khashayar (B.Sc) 2012., Mining Eng., University of Tehran 4- Majid Sarmasti (B.Sc) 2012, Mining Eng., University of Tehran 5- Milad Hassani (M.Sc) 2012, Mining Eng., Sahand University of Technology

Adviser or Supervisor	6- Saeed Kazem Alilou (M.Sc) 2013, Mining Eng., University of Tehran 7- Anahita Nourmohammadi (B.Sc) 2014, Mining Eng., University of Tehran 8- Mansoureh Khaleghi (M.Sc) 2015, Geophysics, University of Tehran 9- Masoud Mahdavi (M.Sc) 2015, Geophysics, University of Tehran 10- Aram Ramazani (M.Sc) 2015, Geophysics, University of Tehran 11- Mohammad Javad Rohani (M.Sc) 2015, Geophysics, University of Tehran 12- Seyed Bagher Kashani (M.Sc) 2016, Mining Eng., University of Tehran 13- Seyed Mehran Seyed Mojarad (M.Sc) 2016, Mining Eng., University of Tehran 14- Vahid Shafiei (M.Sc) 2016, Geophysics, University of Tehran 15- Mohammad Reza Rahimi (M.Sc) 2017, Mining Eng., University of Tehran 16- Foad Zeinali (M.Sc) 2017, Mining Eng., University of Tehran 17- Hessam Ghaeminejad (M.Sc) 2017, Mining Eng., University of Tehran 18- Mahya Mehrvash (M.Sc.) 2017, Mining Eng., University of Tehran
Reviewer	1- Earth Science Informatics, Springer. 2- Applied Spatial Analysis and Policy, Springer 3- Arabian Journal of Geosciences, Springer 4- Journal of Applied Geophysics, Elsevier 5- Journal of Tethys 6- Journal of Earth Sciences, Springer 7- Journal of Mining and Environment 8- Computers and Geosciences, Elsevier 9- International Journal of Mining & Geo-Engineering 10- Iranian Journal of Geophysics 11- Journal of the Earth and Space Physics 12- Geosciences Scientific Quarterly Journal 13- Ore Geology Review, Elsevier 14- International Journal of Geographical Information Science 15- Journal of Geophysics and Remote Sensing 16- Pure and Applied Geophysics, Springer 17- Natural Resources Research, Springer 18- Comptes Rendus Geoscience, Elsevier 19- Journal of African Earth Sciences, Elsevier 20- Engineering Geology, Elsevier 21- Journal of African Earth Sciences, Elsevier 22- Mathematical Geosciences, Springer 23- Natural Hazards, Springer 24- Near Surface Geophysics 25- Journal of Analytical and Numerical Methods in Mining Engineering 26- Data Mining and Knowledge Discovery, Springer 27- IEEE Transactions on Geoscience and Remote Sensing 28- IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing 29- Journal of Applied Electromagnetic
Teaching	1- Exploration Geophysics (Gravity, Magnetic and Seismic), B.Sc. 2- Exploration Geophysics (Electrical Methods), B.Sc. 3- Laboratory and Field Geophysics, B.Sc. 4- Seminar, M.Sc. 5- Advanced Geophysics Exploration, M.Sc. 6- Advanced Remote Sensing and GIS in Mineral Exploration, M.Sc.

References

1- Dr. Gholam-Hossain Norouzi, Associate Professor, Department of Mining Engineering, College of Engineering, University of Tehran, Iran, E-mail: norouzih@ut.ac.ir.

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