

# **Curriculum Vitae**

Name: Ali Akbar Abdollahzadeh

Sex: male

Marital status: married, 2 children

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## **Academic Degrees**

Ph.D. in Geosciences (Mineral Processing), INPL- France, 1997

DESS in Mineral Processing, INPL- France, 1994

M.Sc. in Mining Eng., Faculty of Engineering, University of Tehran, Iran, 1991

B.Sc. in Mining Eng., Faculty of Engineering, University of Tehran, Iran, 1988

## **Employment Experience**

Associated Professor of Mining Engineering Department, University of Kashan, Iran (2002- present)

Deputy of Research, Faculty of Eng., University of Kashan, (2006 – 2012)

Educational Advisor, Iran University of Industries and Mines, (2002 - 2008)

Academic member & Deputy of Education, Iran University of Industries and Mines, (1997 - 2002)

## **Taught Subjects**

Mineral processing courses in mining engineering program (BSc, MSc & PhD.)

## **Fields of Interest**

Mineral Processing systems modeling & simulation,

Flotation,

Dewatering in mineral processing

Mass Balancing & Data Reconciliation

## **Research Activities**

Laboratory studies on the feasibility of beneficiation the Tang-Zagh iron ore with acceptable efficiency and grade (2019)

Investigation indexes and water accounting frameworks in mineral processing plants (2018)

Dynamic simulation of flotation circuits (2013)

Beneficiation studies of Koohbanan oxide Pb Ore (2007)

Data reconciliation due to supervision of a CIL leaching circuit (2006)

Design an Information system for Mineral Processing Plants of Iran (2005)

Comprehensive plan on new mineral processing technologies (2001)

Beneficiation studies of Nehbandan Garnet Ore (2000)

## **Publications**

1. M. Khezri, B. Rezai, Ali A. Abdollahzadehb, M. Molaeinasabc, Benjamin P. Wilsond, M. Lundström  
“Investigation into the effect of mechanical activation on the leaching of chalcopyrite in a glycine medium”  
Hydrometallurgy, online 2 Oct. 2020
2. M. Khezri, B. Rezai, Ali A. Abdollahzadehb, M. Molaeinasabc, Benjamin P. Wilsond, M. Lundström  
“Glycine leaching of Sarcheshmeh chalcopyrite concentrate at high pulp densities in a stirred tank reactor”, Minerals Engineering, 157, 2020.
3. M. Moharrami, Ali A. Abdollahzadeh  
“Feasibility Study of Differential Flotation of Cu–Pb–Zn Minerals from Copper Sulfide–Oxide Ores”,  
Transactions of the Indian Institute of Metals, Vol. 73, No. 10, 2020
4. S Mohammadi, B. Rezai, Ali A. Abdollahzadehb

"Development of Geometallurgical Indices for Semi-Autogenous Grinding at Sarcheshmeh Porphyry Copper Mine", Journal of Mining and Environment, Vol. 11, No. 2, 2020

5. A. Sobouti, N. Shafaat, Ali A. Abdollahzadeh  
"Jiroft refractory manganese ore leaching using oxalic acid as reducing agent in sulfuric acid solution", Physicochemical Problems of Mineral Processing, Vol. 56, No. 2, 2020
6. M. Rahimi, Ali A. Abdollahzadeh, B. Rezai  
"Dynamic simulation of the effect of time-dependent variation of pH on response variable of the tailing thickener of coal washing plant", International Journal of Coal Science and Technology, Vol. 60, Issue 1, 127-137, 2019
7. A. Sobooti, B. Rezaei, A. Abdollahzadeh, "The effect of sodium bicarbonate additive on the ball diameter on rate of breakage", 7<sup>th</sup> Iranian Mining Engineering Conference & 5<sup>th</sup> International Mine and Mining Industry Congress, Tehran, 3-4 Nov. 2018
8. F. Khani, A. Abdollahzadeh, B. Taheri, M. Heshami, "Investigation of effective parameters influence on hematite and silica flotation by hallimond tube", 7<sup>th</sup> Iranian Mining Engineering Conference & 5<sup>th</sup> International Mine and Mining Industry Congress, Tehran, 3-4 Nov. 2018
9. F. S. Hoseinian, **A A Abdollahzadeh**, B. Rezai,  
"Semi-autogenous mill power prediction by a hybrid neural genetic algorithm", Journal of central south university, Vol. 25, Issue 1, pp 151-158, Jan. 2018
10. M. H. Golpayegni, **A A Abdollahzadeh**  
"Optimization of operating parameters and kinetics for chloride leaching of lead from melting furnace slag", Transactions of Nonferrous Metals Society of China, Volume 27, Issue 12, pp 2704–2714, December 2017
11. O. Salmani Nuri, E. Allahkarami, **A A Abdollahzadeh**  
"Modeling and Optimization of SE and SI of Copper Flotation via Hybrid GA–ANN", Transactions of the Indian Institute of Metals, Volume 70, Issue 9, pp 2255–2263, November 2017
12. E. Allahkarami, O. Salmani Nuri, **A A Abdollahzadeh**, B. Rezai, B. Maghsoudi  
"Improving estimation accuracy of metallurgical performance of industrial flotation process by using hybrid genetic algorithm-artificial neural network", Physicochemical Problems of Mineral Processing, 53(1), 366-378, 2017
13. O. Salmani Nuri, E. Allahkarami, M. Irannajad, **A A Abdollahzadeh**,  
"Estimation of selectivity index and separation efficiency of copper flotation process using ANN model", Geosystem Engineering, Taylor & Francis, vol. 20, no. 1, 41-50, 2017
14. F. S. Hoseinian, R. Shirani Faradonbeh, **A A Abdollahzadeh**, B. Rezai, S. Soltani Mohammadi  
"Semi-autogenous mill power model development using gene expression programming", Powder Technology, Elsevier, 308, 61-69, 2017
15. F. S. Hoseinian, **A A Abdollahzadeh**, S. Soltani Mohammadi, M. Hashemzadeh  
"Recovery prediction of copper oxide ore column leaching by a hybrid neural genetic algorithm", Transactions of Nonferrous Metals Society of China, Elsevier, Vol. 27, Issue 3, Pages 686-693, March 2017
16. E. Allahkarami, O. Salmani Nuri, **A A Abdollahzadeh**, B. Rezai, M. Chegini  
"Estimation of Cu & Mo grades and recoveries in the industrial flotation plant using the ANN", Int. J. of nonferrous metallurgy, Vol. 5, No. 3, 25-32, 2016
17. M. Rahimi, B. Rezai, **A A Abdollahzadeh**, younesi  
"Dynamic simulation of the pilot thickener operation phenomenological model with results validation for continuous and discontinuous tests", Journal of central south university, Vol. 24 Issue 5 pp 1207–1216, May 2017
18. M. Jafari, A. Abdollahzadeh, F. Aaghbabaei,

- “Copper Ion recovery from mine water by ion flotation”, Mine water & the Environment, Volume 36, Issue 2, pp 323–327, June 2017
19. M. Rahimi, **A A Abdollahzadeh**, B. Rezai  
“Dynamic simulation of tailing thickener at the tabas coal washing plant using the phenomenological model”, Int. J. of mineral processing, 154, 2016
20. S. Mohammadi, B. Rezai, **A. Abdollahzadeh**,  
“Using geophysical information to predict processing performance via the new emerging geometallurgical studies”, 34<sup>th</sup> national & 2<sup>nd</sup> international geosciences congress, Tehran, 23-24 Feb. 2016
21. M. Rahimi, B. Rezai, **A A Abdollahzadeh**  
“Dynamic simulation of the effect of discharge rate variation on tailing thickener behavior of the coal washing plant”, Int. J. of Coal Preparation and Utilization, Vol 36, issue 2, 2015
22. A. Ahmadi, M. Khezri, **A A Abdollahzadeh**, Ascar  
”Bioleaching of copper, nickel and cobalt from the low grade sulfidic tailing of Golegohar Iron Mine, Iran”, Hydrometallurgy, Elsevier, 154, 1-8, 2015
23. H. Kamran Hghighi, M. Rafie, D. Moradkhani, B. Sedaghat, **A. Abdollahzadeh**,  
“Modeling on Transition of Heavy Metals from Ni-Cd Zinc Plant Residue Using Artificial Neural Network”, Trans. of the Indian Institute of Metals, 68(5), Feb. 2015
24. M. Rahimi, **A A Abdollahzadeh**, B. Rezai  
“The effect of particle size,pH and flocculant dosage on the gel point, effective solid stress and thickener performance of coal washing plant”, Int. j. of Coal Preparation and Utilization, 35, 125-142, 2015
25. M. Rahimi, **A A Abdollahzadeh**, B. Rezai  
“Observability study of the circuit variables in the dry tailing processing (DTP) of Golegohar iron processing plant using linear and bilinear methods”, Arabian Journal for Science and Engineering, Volume 39, Issue 8, pp 5847-5859, August 2014
26. R. Ahmadi, **A. Abdollahzadeh**, Z. Pourkarimi, "Pilot plant studies on beneficiation of low-grade ferroginous manganese for production of ferromanganese", 32<sup>nd</sup> national & the 1<sup>st</sup> international geosciences congress, tehran, 16-19 Feb. 2014
27. F. Nakhaei, M. Rahimi, **A. A. Abdollahzadeh** - M. Irannajad -J. Ezzat-abadi,  
"Determination of observable and non-observable variables in the Sulfur reduction processing (SRP) of Golegohar mineral processing plant using Bilinear method", Iron Steel Symposium 2013 , Iran (Islamic Republic of) , 19 - 20 Feb. 2013,
28. D. Moradkhani, A. Agajanloo, B. Sedaghat, **A. Abdollahzadeh**,  
"Copper cementation with zinc powder from zinc sulfate solution", 22<sup>nd</sup> International mining congress and exhibition of Turkey, 11-13 May, 2011
29. A R Sayadi, **A A Abdollahzadeh**, M Abdollahi,  
" Design an Information system for Mineral Processing Plants of Iran", MPT-2007, IIT Bombay, 22-24 Feb. 2007.
30. **A. Abdollahzadeh**, H. Asgarzadeh, A. Pirastehfard,  
“Conceotion of measurement system by the choice of the sensor precision”, IX Balkan Mineral Processing Congress, Istanbul, 11 – 13 Sep. 2001.
31. D. Mandel, **A. Abdollahzadeh**, D. Maquin et J. Ragot  
"Data reconciliation by inequality balance equilibration. A LME approach", Int. Journal of Mineral Processing, 53, 157-169, 1998.
32. M. Oliazadeh and **A. Abdollahzadeh**  
"Beneficiation studies of Bama Oxidized Pb-Zn Ore", Int. Journal of Engineering, Vol. 10, 1997

33. J. Ragot, D. Maquin et **A. Abdollahzadeh**,  
“Application du concepte LMI a la reconciliation de donnees par equilibrage de bilan de type inegalite”, CHIMIOMETRIE’97, Experiences et Modeles, Lyon, Dec. 1997.
34. J. Ragot, D. Maquin et **A. Abdollahzadeh**  
“Reconciliation de donnees par equilibrage de bilan de type inegalite – Application a des donnees granulometriques”, Industrie Minerale, Les Techniques, pp. 62-66, juin 1997
35. **A. Abdollahzadeh**, M. Luong, D. Maquin et J. Ragot,  
“Influence de la precision des capteurs sur la precision de l’etat d’un systeme – Application au choix de la precision des capteurs”, Colloque national, Simulation, Optimisation et Commande en Genie des procedes, SIMO’96, Toulouse, Oct. 1996.
36. D. Mandel, **A. Abdollahzadeh**, D. Maquin, P. Auchet et J. Ragot,  
“Methodes pour la surveillance des reseaux de distribution d’eau potable”, Journees du Comite d’Orientation de Recherche et de Formation (CORF), Centre International de l’Eau (NANCIE), Nancy, May 1996.