

Curriculum Vita (CV)



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Associate professor of Mining economics

QUALIFICATION

- **Ph.D.:** Mining economics, Paris School of Mines (ENSMP), France, 1999
- **M.Sc.:** Mining economics, Paris School of mines (ENSMP), France, 1994
- **M.Sc.:** Mining Eng., Tehran university, Iran, 1991
- **B.Sc.:** Mining Eng., Isfahan Uni. of Technology, Iran, 1988

PROFESSIONAL EXPERIENCES

- Associate professor, Tarbiat Modares University, Iran, from 2012 to present
- Assistant Professor, Tarbiat Modares University, Iran, from 2002 to 2012
- Consultant, Geological Survey of Iran, from 2000- 2005
- Research associate, Iran University of Industries & Mines, from 1999 - 2005
- Research associate, Paris School of mines, from 1995-1999
- Project manager, Ministry of Mines & Metals, Iran, 1991-1992
- Expert, Madanjou Company, 1989-1991

SELECTED PAPERS

1. Arfania, S., Sayadi, A.R., Khalesi, M.R., 2017, Cost modeling for flotation machines, The Journal of the Southern African Institute of Mining and Metallurgy (SAIMM), Accepted, in press.
2. Delghandi, S.H., Sayadi, A.R., Baradaran, V., Hoseinie, S.H., 2016, Availability calculating of open pit mine loading system based on Markov chain model, Organizational resources management research, in Persian, Accepted, in press.

3. Mahmoudi, Z., Sayadi, A.R., Rajebzadeh, A., 2017, Dynamic modeling of labor productivity in mining- Case study: Chadormaluo mining and industry complex, *Journal of Industrial Management*, accepted, in Persian, Accepted, in press.
4. Tagavi, Y., Khademi, J., Sayadi, A.R., 2016, Evaluation of rock quality of Angouran zinc mine, *Journal of Geospatial information technology*, in Persian, Accepted, in press.
5. Saffariyan, F., Sayadi, A.R., Khodayari, A. 2016, Simultaneous optimization of cut-off grade and capacity of processing plant by considering the price uncertainty, 2016, *Journal of Modeling in Engineering*, Accepted, in press.
6. Vaziri, V., Khademi Hamidi, J., Sayadi, A.R., 2016, Classification of Coal Mine Roof Using Geostatistical Analyst and GIS: An Emphasis on Tabas Mechanized Mine, *Iranian Journal of Mining Engineering*, Vol. 11, Issue 30, pp. 51-62.
7. Khalesi, M.R., Zarei, M.J., Sayadi, A.R., Khoshnam, F., Hemmati Chegeni, M., 2015, Development of a techno-economic simulation tool for an improved mineral processing plant design, *Minerals Engineering*, Vol.81, pp. 103-108.
8. Khoshfarman, M., Sayadi, A.R., Khalesi, M.R., 2015, Capital and operating cost estimation for standard and negative pressure hydrocyclone, *Iranian Journal of Mining Eng.*, Vol. 10, No. 26, pp.69-82.
9. Mones Abdollmaleki, Ahmad Reza Sayad, Mohammad Hayati, 2015, Iron ore Supplier Selection Based on Supplier Risk Using ELECTRE II (Case study: Iron ore suppliers of Esfahan steel company), *Organizational Resource management research*, Vol. 5, Issue 2, pp. 98-120.
10. Lashgari, A., Sayadi, A.R., Yavari, M., 2014, A mathematical model for shovel-truck equipment selection to lower loading and hauling cost in surface mines, *Iranian Journal of Mining Eng.*, Vol. 9, No. 25, pp.109-117.
11. Hayati, M., Ataee, M., Khalou Kakaee, R., Sayadi, A.R., 2014, Evaluation and ranking of risks in supply chain management using Taxonomy method, *Journal of operational research in its applications*, Vol. 11 - Number 1, pp. 85-103.
12. Najafzadeh; M., Sayadi; A.R., Khademi Hamidi, J., 2014, Preliminary Construction Cost Estimation for Short Tunnels in Fair to Good Rock Mass Conditions, *Tunneling & Underground Space Engineering (TUSE)*, Vol 3, Issue 1, pp. 77-85.
13. Sayadi, A.R., Khalesi, M. R., Khoshfarman, M., 2014, A parametric cost model for mineral grinding mills, *Minerals Engineering*, Vol. 55, pp 96–102.
14. Soltany, M.R., Sayadi, A.R., Hayati, M., 2014, Productivity improvement in a steel industry using supply chain management technique, *International Journal of Mining and Geo-Engineering, Int J Min & Geo-Eng (IJMGE)*, Vol. 47, No. 1, Jun. 2013, pp. 51-60.
15. Hayati, M., Ataei, A., Kakaee R., and Sayadi, A.R., 2014, Application of FDAHP and FTOPSIS for risk assessment in supply chain, *International journal of current life sciences*, Vol. 4, Issue 9, pp. 5354-5366, September.
16. Sayadi, A.R., Monjezi, M., Tavasoli, S.M., Rezaee, M., 2014, Application of neural networks to predict net present value in mining projects, *Arabian Journal of Geoscience*, Vol. 7, pp.1067–1072.
17. Soltany, M.R., khodayari, F., Sayadi, A.R., 2014, Productivity optimization using fractional programming in Esfordi phosphphate complex, *Iranian journal of Mining Eng.*, Vo. 8, No 2, pp. 25-35.

18. Lashgari, A., Sayadi, A.R., 2013, Statistical approach to determination of overhaul and maintenance cost of loading equipment in surface mining, *International Journal of Mining Science and Technology*, Vol. 23, pp. 441–446.
19. Farhadian, H., Katibeh, H., Sayadi, A.R., 2013, Prediction of Site Groundwater Rating (SGR) for Amirkabir Tunnel Using Artificial Neural Networks, *International Journal of Mining, Metallurgy & Mechanical Engineering (IJMMME)* Vol. 1, Issue 1, pp. 2320–4060.
20. Sayadi, A.R., Lashgari, A., Fouladgar, M.M., 2012, Estimating capital and operational costs of backhoe shovels, *Journal of Civil engineering and management*, Vol. 18(3), pp 378-385.
21. Sayadi, A.R., Lashgari, A., Paraszczak, J., 2012, Hard-rock LHD cost estimation using single and multiple regressions based on principal component analysis. *Tunnelling and Underground Space Technology*, Vol 27, pp 133-141.
22. Bangian, A. H., Ataei, M., Sayadi, A. R., Gholinegad A. R., , 2012, Optimizing post mining land use for pit area in open pit mining using fuzzy decision making method, *Int. J. Environ. Sci. Technol.*, 9:613-628. DOI 10.1007/s13762-012-0047-5.
23. Monjezi, M., Dehghani, H., Singh, T.N., Sayadi A.R., and Gholinejad, A.R., 2012, Application of TOPSIS method for selecting the most appropriate blast design, *Arab J Geosci*, Vol. 5, pp 95-101.
24. Sayadi, A.R., Fathianpour, N., Mousavi, A., 2011, Open pit optimization in 3D using a new artificial neural network, *Archive Mining Science*, Vol. 56, Issue 3, pp 389-403.
25. Sayadi, A.R., Monjezi, M., Hayati. 2011. Landslide risk assessment using Fuzzy TOPSIS method, *Indan Landslide*, Vol. 4, No.1, May, pp 35-38.
26. Bangian A. H., Ataei M., Sayadi A.R., Gholinegad A. R., 2011, The Application of Fuzzy MADM Modeling to Define Optimum Post Mining Land Use for Pit Area to Recognize Reclamation Costs in Open Pit Mining, *Archives of Mining Science*, Vol. 56, No. 1.pp 93-118.
27. Bangian A. H., Ataei M., Sayadi A.R., Gholinegad A. R., 2011, Fuzzy analytical hierachy processing to define optimum post mining Mining Land Use for Pit Area to clarify reclamation costs, *Gospodarka Surowcami Mineralnymi / Mineral Resources Management*, Tom 27, pp 145-166.
28. Monjezi, M., Bahrami, a., Yazdian, A., Sayadi, A.R., 2011, Prediction and controlling of flyrock in blasting operation using artificial neural network, *Arabian Journal of Geosciences*. Vol. 4, pp 421-425.
29. A. Reza Sayadi, S. Mehrdad Heidari and Serkan Saydam, 2010, Study of key factors in geometrical and grade modelling of copper porphyry deposits, *Int. J. Mining and Mineral Engineering*, Vol. 2, No. 1, pp 59-77.
30. Sayadi, A.R., Heidari, M. and Agdarei, E., 2009, Sensitivity analysis of effective parameters on Sungun copper deposit modeling, *Journal of Faculty of Engineering of Tehran University*, Vol.43, No 3.
31. Sayadi, A.R., Khodadadi, A., Partani, 2009, Environmental Impact assesment of Gotvand Hydro-Electric dam on the Karoon rivier using ICOLD technique, *World Academy of Sciences*, 2009, Vol 54, Juin, pp. 1-8.
32. Sayadi, A.R., Hosseini, M.A., Bozorgi, V., 2008, Price instability and terms of trade for mineral commodities in the last two decades, *Gospodarka Surowcami Mineralnymi (mineral economics)*, Volume 24, issue 4 / 2, pp 199-209.

33. Sayadi, A.R., Yavari, M., Solgi, N., 2008, Modeling of minimum acceptable target reserve in gold exploration projects, *Scientific Quarterly Journal Geosciences*, Vol. 17 No 67, Spring.
34. Sayadi, A.R., Monjezi, M., Vahidi, M., 2006, Sensitivity and risk analysis of critical technico-economical variables of Sungun copper mine, *Journal of Mines, Metals & Fuels*, Vol 55, 1,2 (11-18)
35. Sayadi, A.R., Monjezi, M., Sadeghbegi, M., 2006, Modeling and preliminary resource estimation of the Cheshmeh Zard gold deposit, *Indian Journal of Mines, Metals & Fuels*, Feb, Vol 54, Nos. 1-2, pp 11-15
36. Sayadi, A.R., Monjezi, M., 2006, Modeling and preliminary resource estimation of Cheshmeh Zard gold deposit., *Indian Journal of Mines, Metals & Fuels*, Feb.
37. Sayadi, A.R., Monjezi, M., 2005, Design and implementation of an information system for world mineral commodity market, *Indian Journal of Mines, Metals & Fuels*, Annual review, Dec.
38. Sayadi, A.R., Monjezi, M., Hayati, M., Hosseinpour, M., 2010, Risk Management in Tunneling Projects, *Proceedings of 2010 International Conference on Environmental Science and Development*, (CESD 2010), Singapore, 26-28 February.
39. Monjezi, M., Amini, H., Sayadi, A.R., 2010, Prediction the uniaxial compressive strength using regression and neural network modeling, *Proceedings of 2010 International Conference on Environmental Science and Development*, (CESD 2010), Singapore, 26-28 February.
40. Mousavi, A. Sayadi, A.R., Fathianpour, N., 2009, Application of Conditional Simulation in Uncertainty Assessment of the Estimated Blocks Grade in Esfordi Phosphate Mine, *Proceeding of third Iranian mining Eng. Conference*, Yazd, Iran
41. Sayadi, A.R., Hayati, M., Hosseinpour, M., 2009, Tunneling Projects Risk Assessment Using FMEA and Fuzzy Logic *Proceeding of third Iranian mining Eng. Conference*, Yazd, Iran
42. Sayadi, A.R., Hosseini, M.A., Bozorgi, 2008, Price instability and terms of trade for mineral commodities in the last two decades, *21st World mining Congress*, Krakow, Poland, 2
43. Sayadi, A.R., Ataee, Hassanzadeh, A., 2008, Optimization of mine production rate using conditional NPV maximization, *26nd Symposium on Geoscience*, Iran, Feb.
44. Sayadi, A.R., Hidari, M., Jahanbakhsh, K., 2008, Sensitivity analysis of effective factors on Ali Abad copper deposit model, *26nd Symposium on Geoscience*, Iran, Feb.
45. Sayadi, A.R., Abdollahzadeh, A., 2007, Design of an information system for mineral processing plant of Iran, *Int. Seminar on mineral processing*, India., Feb.
46. Sayadi, A.R., Dehqhan, H., 2007, Cut-off grade estimatin in polymetalic deposits, *25nd Symposium on Geoscience*, Iran, Feb.
47. Sayadi, A.R., Yavari, M., Solgi, N., 2007, A model for determining minimum acceptable target reserves in gold projects, *25nd Symposium on Geoscience*, Iran, Feb.
48. Sayadi, A.R., Hidari, M., Ajdari, E., 2007, Variogram sensitivity analysis in Sugun copper mine, *25nd Symposium on Geoscience*, Iran, Feb.
49. Sayadi, A.R., Monjezi, M., Sharabadi, H., 2007, Reserve estimation of Esfordi Phosphate deposit using neural network, *25nd Symposium on Geoscience*, Iran, Feb.
50. Shabani, A., Sayadi, A.R., Goshtasbi, K., Amiri, A., 2006, Analyzing effect of uncertainty variables on tunnel project cost using Monte Carlo simulation technique, *7th Tunnel conference of Iran*.

51. Sayadi, A., Basiri, M.H., Gilani, O., 2006, Development of a software for mining projects equipment cost estimation, Scientific quarterly Journal of geosciences, Iran, Summer.
52. Sayadi, A.R., Gilani, O., 2006, Small scale mining overview, 24nd Symposium on Geoscience, Iran, Mar.
53. Sayadi, A.R., Vahidi, M., 2006, Sensitivity analysis of critical techno-economical variables of Sungun copper mine, 24nd Symposium on Geoscience, Iran, Mar.
54. Sayadi, A.R., Amiri, A., 2006, Sensitivity analysis of construction costs in Dasht Zehab water conveyance tunnel, 24nd Symposium on Geoscience, Iran, Mar.
55. Sayadi, A.R., Sadeghbeigi, M., 2006, Performance analysis of Sherpa software in cost estimation of Iranian open pit mines, 24nd Symposium on Geoscience, Iran, Mar.
56. Fazlikhani, T., Dorosti, M., Sayadi, A.R., 2005, Unfolding process for reserve estimation of surface mines, The second iranian open pit mines conference, May.
57. Yavari M., Sayadi, A.R., Sadeghbeigi, M., 2005, Preliminary design of Arghash gold mine, The second Iranian open pit mines conference, May.
58. Sayadi, A.R., Shahriar, K., Karimi Nasab, S., Samimi-Namin, F., 2005, Determination of open pit/underground mining limits by maximizing NPV, Iranian mining engineering conference.
59. Sayadi, A.R., 2005, Evaluation of governments contribution in exploration, 23nd Symposium on Geoscience, Iran.
60. Sayadi, A.R., 2005, Geological survey organization range of activities in developing countries 23nd Symposium on Geoscience, Iran, Iran.
61. Sayadi, A.R., Soudi-Shaar, P., 2005, A Half- century of mineral exploration in the world & Iran, 23nd Symposium on Geoscience, Iran, Iran.
62. Monjezi, M., Sayadi, A.R., Ziaei, J., 2005, Using ANFO–Dynamite Combination as Explosive in Tunnel Blasting, 23nd Symposium on Geoscience, Iran, Iran.
63. Sayadi, A.R., Sadeghbeigi, M., 2004, Which perspective for gold?, 22nd Symposium on Geoscience, Iran.
64. Sayadi, A.R., 2004, An introduction to the desirability criteria for some of the industrial minerals in Iran, 22nd Symposium on Geoscience, Iran.
65. Sayadi, A.R., Kiani, A., 2004, Mine cost estimation with econometric models, 22nd Symposium on Geoscience, Iran.
66. Sayadi, A.R., Sadeghbeigi, M., 2003, Analysis of drilling cost estimation methods during feasibility study of, The first drilling conf. in mining, Iran.
67. Sayadi, A.R., 2002, World mineral exploration investment analysis, 21nd Symposium on Geoscience, Iran.
68. Sayadi, A.R., 2002, A study of critical path for feasibility studies of mining projects, 21nd Symposium on Geoscience, Iran.
69. Sayadi, 2001, Organization and realization model for feasibility studies of mineral projects, 20nd Symposium on Geoscience, Iran.
70. Sayadi, A.R., Doustmohamadi, R., Sadeghbeigi, M., 2001, Prefeasibility study of mineral processing plant of oxide zone in Cheshmehzard gold deposit, 20nd Symposium on Geoscience, Iran.
71. Sayadi, A.R., Sadeghbeigi, M., 2001, Preliminary reserve estimation of Cheshmehzard gold deposit, 20nd Symposium on Geoscience, Iran.

SELECTED DISSERTATION (SUPERVISOR)

1. Reliability analysis of dump trucks considering operational risk factor
2. Analyzing mining and milling equipment operating costs
3. Supply chain management in the steel industry using system dynamics
4. Reliability and maintainability analysis of backhoe shovels in open pit mines, case study in Mishdovan iron mine
5. A model for productivity evaluation in mines- a case study
6. Cost estimation of loading & haulage machines in open pit mining
7. Mining productivity evaluation using system dynamics approach-case study
8. Final Open Pit limit Optimization using Neural Networks
9. Tunnel projects risk management modeling
10. Presenting a model for risk assessment in open pit mines projects
11. Mines cut-off grade optimization using point value method
12. Economic-financial evaluation and estimation of production function of Golgohar iron mine
13. Analysis of copper market structure
14. Prefeasibility study of Zarshouran gold mine
15. Sensitivity analysis of effective factors on copper porphyry deposit modeling
16. Modeling of mine production rate optimization
17. Economic Evaluation and Sensitive and Risk analysis to Alumina production from Nepheline Synite of East Azarbijan
18. Sensitivity analysis of effective factors on Songun porphyry copper deposit modeling
19. Design and implementation of a software for mining project equipment
20. Reserve estimation and design of Esphordi phosphate mine from level +1720
21. Technical and economical evaluation of Dasht zahab convenece excavation methods
22. Modeling and determination of minimum acceptable target resources in gold projects in Iran

Dissertation (Advisor)

1. Selection of appropriate backfill method in Angouran underground mine
2. Designing a computer model for prefeasibility study of the Persian Golf Alumina plant
3. Design of Mishdivan iron open pit mine
4. Design of excavation phase and blasting pattern for large section tunnels