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Ph.D. in Hydrotechnic (underground Construction), Moscow State University of Civil Engineering, Russia (2000)
 M.Sc. in Mining Eng. –underground Construction, Moscow State University of Mining Engineering, Russia (1997)
 B.Sc. in Mining Eng.(Exploration), Shahid Bahonar University of Kerman, Iran, (1990).

Technical fields of study	Design and Calculation of Underground Spaces Underground Construction
Research interests	Analytical and numerical modeling in tunneling Analysis of behavior of underground caverns
Courses taught (undergraduate)	<ul style="list-style-type: none"> • Technology of construction of underground excavations • Support of mines
Courses taught (graduate)	<ul style="list-style-type: none"> • Advanced tunneling • Numerical methods in geomechanics, • Design and calculation of underground structures • Advanced design and calculation of underground structures • Tunneling in difficult conditions • Ground improvement in tunneling • Ground settlement due to urban tunneling
Positions/ Experiences	Research group for design and calculation of underground structures
Memberships	Editorial board of Journal of Numerical and Analytical methods in Mining Engineering(Iran), Water research group of ACECR
Reviewer	Journals: Arabian journal of geosciences(Saudi Arabia), Mining Eng.(Iran), Tunnel and underground Spaces(Iran), Numerical and Analytical methods in Mining Engineering(Iran),
Sabbatical leave	Creep analysis in tunneling, NTU, Laboratory of tunneling, Greece, 2009.
Recent research projects	<p>Assessment of effect of mining work of stops on the gallery of coal mine Pabedana by monitoring of displacements. Pabedana coal mine, Kerman, Iran, 2007.</p> <p>Correction of Ground Response Curve to Modeling Loosening Zone, Shahid Bahonar University of Kerman, Kerman, Iran. 2003</p> <p>Preparing software for determining the rock mass modulus deformation of rock mass, Shahid Bahonar University of Kerman, Kerman, Iran, 2008</p> <p>Calculation of support system for Hashuni coal mine stop, Kerman, Iran, 2013 (co worker)</p>
Advised thesis	<p>Kargar A.R., Analysis of concrete liner of noncircular tunnels using analytical methods</p> <p>Ghotbi Ravandi E., Numerical and Physical Modeling of Water Curtain Performance of</p>

	Underground Crude Oil Storage to Reduce Multiphase Flow in Fractured-Porous Media(not finished)
Books	Rahmannejad Reza, Utilization of underground spaces, 2013, ACECR publisher,459p.
Journal publications	<p>A.R.Kargar, R.Rahmannejad, M.A. Hajabasi, (2014) Determination of stress field around circular tunnels with concrete lining using complex potential functions. Jr. of Mechanical Eng. Tarbiat Modares University, Accepted.</p> <p>A.R.Kargar, R.Rahmannejad, M.A. Hajabasi, (2014) An analytical elastic solution for stress field of lined non-circular tunnels at great depth using complex variable method. Jr. of solid& Structures, vol 51, issue6.</p> <p>Ebrahim Assadollahpour, R Rahmannejad; Alireza Asghari;Abolfazl Abdollahipour (2014) Back analysis of closure parameters of Panet equation and Burger's model of Babolak water tunnel conveyance, Rock.Mech and Mining Sci., Volume 68.</p> <p>R. Rahmannejad, M.Esfandiary, E. Namazi, H. Jamshidi, (2014), Numerical Modeling of Ground Settlement Induced By Tunneling (Case study: Shiraz subway tunnels), Jr. of TUSE, Vol.2, No.2.</p> <p>Ebrahim Ghotbi Ravandi, Rahmannejad Reza; (2013) "Wall Displacement Prediction of Circular, D Shaped and Modified Horseshoe Tunnels in Non-Hydrostatic Stress Fields", Tunnelling and Underground Space Technology, 34, p.54-60.</p> <p>Ebrahim Ghotbi Ravandi, Reza Rahmannejad, Amir Ehsan Feili Monfared, Esmaeil Ghotbi Ravandi; (2013) Application of numerical modeling and genetic programming to estimate rock mass modulus of deformation, International Journal of Mining Science and Technology No.23 733–737.</p> <p>A.R.Kargar, R.Rahmannejad, (2013) A new analytical solution to calculate ground reaction curve for brittle rocks, Arab. Jr. of Geosciences, DOI 10.1007/s12517-013-1206-9.</p> <p>R Rahmannejad, AI Sofianos, (2013) Calculation of tunnel behavior in viscoelastic rock mass, Iranian Journal of Mining Engineering (IRJME).</p> <p>Abdollahipour A., Rahmannejad R., (2012) Sensitivity analysis of influencing parameters in cavern stability, International Journal of Mining Science and Technology 22 707–710.</p> <p>M. Havaej, R. Rahmannejad, M. A. Ebrahimi, (2012) An Equation to predict ground surface settlement due to metro tunneling using EPB TBM, Iranian Journal of Mining Engineering (IRJME), vol.7,No.15.</p> <p>Abdollahipour Abolfazl, Rahmannejad Reza; Investigating the effects of lateral stress to vertical stress ratios and caverns shape on the cavern stability and sidewall displacements, Arab. Jr. of Geosciences, Printed 09/10/2012.</p>
Conference proceedings	<ul style="list-style-type: none"> ○ Rahmannejad, R., Rahmannejad, A., Analysis of rock load pressure according to Russian Codes, 8-th National Congress on Civil Engineering, Babol, Iran, 2014. ○ Rahmannejad, R., Rahmannejad, A., Analysis of behaviour of concrete lining of tunnels, 8-th National Congress on Civil Engineering, Babol, Iran, 2014. ○ M. Yazdani R. Rahmannejad M. Rahim Dizaji; "Determination of the Critical Seismic Acceleration and permanent displacement in Earth structures", 3rd National Conference on Earthquake & Structure ACECR of Kerman, 2012. ○ Rahmannejad, R., Kamyab, R., Application of Qanats in Iran, proceeding of 3rd Iranian and Russian Conference in Agriculture and Natural Resources, Academy of Timiarzov, 15-17 sep., Moscow, Russia, 2002. ○ R.Rahmannejad, A. R.Kargar, A Sensitive Analysis on Mohr-Coulomb and Hoek-Brown Parameters Effective in Ground Response Curve, The international conference COV6-Tenerife 2010. ○ A.R.Kargar R.Rahmannejad, Consideration of Dilatancy Angle in the Ground

	<p>Response Curve of Rock Mass, 44th US Rock Mechanics Symposium and 5th U.S.-Canada Rock Mechanics Symposium, June 27–30, 2010.</p> <ul style="list-style-type: none"> ○ Kargar A. Rahmānejad R., Investigation of the effect of rock mass mechanical models on the GRC, Iranian jr. of Mining Engineering, vol.6 No.11, 2011. ○ Rahmānejad R. Tavakoli S., Comparison of RMR and S systems, Int. Conf. Geomechanics, Russia, 2008. ○ P. Yiouta-Mitra, R. Rahmānejad, A.I. Sofianos, LONGITUDINAL DEFORMATION PROFILE OF A TUNNEL DRIVEN WITHIN A BURGER ROCK MASS, ISRM International Symposium and 6th Asian Rock Mechanics Symposium, Advances in Rock Engineering, 23-27 October, New Delhi, 2010. ○ M. Asadizadeh, H.Tavakoli and R. Rahmānejad,, A. Mahinrad, EFFECT OF ANISOTROPY AND CONFINING PRESSURE RATIO ON ROCK MASS DEFORMATION MODULUS AT BAKHTIARY DAM SITE (IRAN), ISRM International Symposium and 6th Asian Rock Mechanics Symposium, Advances in Rock Engineering, 23-27 October, New Delhi, 2010. ○ Saraf, m., Shahriar, k., Rahmānejad, R., Saiedi, A., ۲۰۰۳. Design optimization of support system for swelling and squeezing zone in Gavoshan water conveyance tunnel, proceeding of International Congress on Tunneling, WTC ITA, Amsterdam, Netherlands ○ Rahmānejad, R., 2003. Comparison of Q, RMR and VNIMI System of Classification, proceeding of International Conference of Geomechanics and Mechanics of Underground Constructions, 11-13 Sept., Tula University, Russia. ○ Rahmānejad, R., 2004. Analysis of Protodiakonov Coefficient in Stresses due to Earthquake, July 1-2, proceeding of Conf. of Earthquake, Shahid Bahonar University of Kerman, Iran. ○ Rahmānejad, R., Zargari, M., 2004. Calculation of H.P.P. Power tunnel Seimareh by use of Schliss and Multi Layer Ring Methods, proceeding of International Conference of Geomechanics and Mechanics of Underground Constructions, Sept.15-17, Tula University, Russia. ○ Zertsalov, M.G., Rahmānejad, R. Abbasi, S., Privalov, A., 2005. A method for determining the safety factor of concrete lining of hydraulic tunnels, proceeding of Int. Conf. Of Qanat, Nov. 23-24, Shahid Bahonar University of Kerman, Iran. ○ Rahmānejad, R., Zertsalov, M.G., Abbasi, S., 2005. Numerical analysis of stability of Qanat openings in Iran, proceeding of Int. Conf. Of Qanat, Nov. 23-24, Shahid Bahonar University of Kerman, Iran. ○ Rahmānejad, R., Saghaian H., 2005. Introduction to the applied technology in Iranian Qanats proceeding of Int. Conf. Of Qanat, Nov. 23-24, Shahid Bahonar University of Kerman, Iran. ○ Rahmānejad, R., Lotfi, V., 2005. Stability analysis of Concrete Lining of Tunnel Komrud, proceeding of International Conference of Geomechanics and Mechanics of Underground Constructions, 13-15 Sept., Tula University, Russia. ○ Rahmānejad, R., Mohamadi, H., 2006. Application of neural network in Rock Engineering, proceeding of International Conference of Geomechanics and Mechanics of Underground Constructions, 11-13 Sept., Tula University, Russia. ○ Rahmānejad, R., Mohamadi, H., 2006. Prediction of rock mass modulus of deformation by RBF network, proceeding of International Conference of Geomechanics and Mechanics of Underground Constructions, 11-13 Sept., Tula University, Russia. ○ Namazi, E., Rahmānejad, R., Ebrahimi, M.A., H. Jamshidi, 2007. An investigation into the effects of Shiraz metro tunnels on the stability of Ghadir bridge, May 5-10, ITA-AITES WORDL TUNNEL CONGRESS, Czech. ○ Rahmānejad, R., Soleimanipur, M., 2007. Comparison of result of Analytical and FEM for Modeling of Grouted Zone Around of Tunnel, proceeding of International Conference of Geomechanics and Mechanics of Underground Constructions, 11-13 Sept., Tula University, Russia. ○ Rahmānejad, R., Abbasi, S., 2007. Software CTSIM for calculation of Circular
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	<p>Tunnels, proceeding of International Conference of Geomechanics and Mechanics of Underground Constructions, 11-13 Sept., Tula University, Russia.</p> <ul style="list-style-type: none">○ Rahmamejad, R., Masumi, H., 2007. New Empirical Relations for Determining of Rock Mass Modulus of Deformation, proceeding of 2nd Inter. conference of Design and Building of Underground Constructions, May 22-24, Ekaterenburg, Russia.
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