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Educations:

- **PhD:** Geotechnics Engineering, (K.N.Toosi University of Technology, Tehran Iran, 2013)
- **MSc:** Highway and Transportation Engineering, (University of Tehran, Tehran, Iran, 1998)
- **BS:** Geomatics (Surveying) Engineering, (K.N.Toosi University of Technology, Tehran, Iran, 1996)

Ph.D. Dissertation: Modelling of response pulse in flexible pavements and its effect on the dynamic properties of asphalt mixtures

M.S. Thesis: Mechanical Properties of Contained Rock Asphalt Mat (CRAM) Pavements and comparison of them with Other Type of Flexible pavements

Research Interests:

Pavement Analysis and Design, Road Materials, Ground Improvement, Application of Computational Intelligence in Civil Engineering

Academic Positions

- Sirjan University of Technology, Department of Civil Engineering, Associate Professor, 2018.
- Sirjan University of Technology, Department of Civil Engineering, Assistant Professor, 2014-2018
- Sirjan University of Technology, Department of Civil Engineering, Instructor, 2002-2014

Teaching Experience

Undergraduate: Highway engineering, Pavement engineering, Soil Mechanics, Traffic Engineering, Transportation Engineering, Land Surveying, Highway design Project, Geometric design of highway, Systems engineering, Railway Engineering, Highway construction equipment.

Graduate: Advanced Pavement Analysis and Design, Ground Improvement, Advanced Soil Mechanics, Application of RS and GIS in Civil Engineering

Working Experiences

- National Transportation Infrastructures Research Center (NTIRC), K.N.Toosi University of Technology, Associate Research, 2010- Present.
- Garnault consulting engineering, Tehran-Iran, Head of R&D, 2005- Present
- Kerman Peymayesh consulting engineering, Kerman-Iran, Senior Engineer, 2003-2005
- Metra consulting engineering, Tehran-Iran, Senior Designer, 2000-2001

Books (Author or translator):

- [1]. **Ghanizadeh, A. R.** and Naji Almasi S. "Advanced Design of Asphaltic and Concrete Pavements", Azarakhsh Publisher, Tehran, 2019. (in Persian)
- [2]. **Ghanizadeh, A. R.** and Rezaie A. "An introduction to Application of Finite Volume Method for solving PDEs", Azarakhsh Publisher, Tehran, 2015. (in Persian)

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- [3]. **Ghanizadeh, A. R.**, "Design and Construction of Roller Compacted Concrete Pavements", Azarakhsh Publisher, Tehran, 2015. (in Persian)
- [4]. Meymandi Parizi S., **Ghanizadeh, A. R.**, Alangi S.H., "Fundamental and Problems of Land Surveying", Azarakhsh Publisher, Tehran, 2015. (in Persian)
- [5]. **Ghanizadeh, A. R.**, Tanakizadeh A., Omrani H. and Ghanizadeh A., "An Introduction to Highway and Surveying Engineering Using AutoCAD Civil 3D 2015", Azarakhsh Publisher, Tehran, 2015. (in Persian)
- [6]. **Ghanizadeh. A.R.**, "Highway project by using Autodesk Civil 3D Land Desktop Companion 2009", Aras Ryaneh Publisher, Tehran, 2012. (in Persian)
- [7]. **Ghanizadeh. A.R.**, "An introduction to Civil project design using AutoCAD Civil 3D 2009", Aras Ryaneh Publisher, Tehran, 2009. (in Persian)
- [8]. Fakhri M., **Ghanizadeh. A.R.**, Rasoli S. "Evaluation of pavement Analysis and Design Software and recommendation of the best choice for country ", Aras Ryaneh Publisher, Tehran, 2009. (in Persian)
- [9]. **Ghanizadeh. A.R** and Sangsefidi E., "Geometric design and Route surveying Problems", Azarakhsh Publisher, Tehran, 2008. (in Persian)
- [10]. **Ghanizadeh. A.R** and Ghanizadeh A. "Highway project by using Autodesk Land Desktop and Civil Design", Aras Ryaneh Publisher, Tehran, 2008. (in Persian)
- [11]. **Ghanizadeh. A.R** and Seyfzadeh A., "Comprehensive Guide for Autodesk Land Desktop 2007", Aras Ryaneh Publisher, Tehran, 2007. (in Persian)
- [12]. Banks James H., McGraw-Hill Publisher, "Introduction to Transportation Engineering", Translated by **Ghanizadeh, A. R.** & Khatibzadeh, A., Tehran, Azarakhsh Publisher, Tehran, 2007.
- [13]. Banks James H., McGraw-Hill Publisher, "Introduction to Traffic Engineering", Translated by **Ghanizadeh, A. R.**, Tehran, Azarakhsh Publisher, Tehran, 2010.

Journal Papers

- [1]. **Ghanizadeh A.R.**, Safi Jahanshahi F., Khalifeh V., Jalali F, (2020). "Predicting Flow Number of Asphalt Mixtures Based on the Marshall Mix design Parameters Using Multivariate Adaptive Regression Spline (MARS)", International Journal of Transportation Engineering, Accepted for publication.
- [2]. **Ghanizadeh A.R.** & Rahrovan M. (2020). "Full-Depth Reclamation Method for Rehabilitation of Streets Pavement in City of Sirjan: Mix Design and Bearing Capacity", Journal of Civil Engineering and Materials Application, Accepted for publication.
- [3]. **Ghanizadeh A.R.** and Padash M. (2019). "Nonlinear Backcalculations of Inverted Pavements Using Hybrid Artificial Neural Network and Colliding Body Optimization Algorithm", Journal of Transportation Infrastructure Engineering, Accepted for publication.
- [4]. **Ghanizadeh A.R.**, Rahrovan M. (2019). " Modeling of unconfined compressive strength and elastic modulus of Soil-RAP blend stabilized with Portland cement using MARS Method", Frontiers of Structural and Civil Engineering, 13(4): 787–799.
- [5]. **Ghanizadeh A.R.**, Heydarabadizadeh N., Mahmoodabadi M.J (2019). "Effect of Objective Function on the Optimization of Highway Vertical Alignment by Means of Metaheuristic Algorithms ", Civil Engineering Infrastructure Journal, Accepted for publication.

- [6]. Abbaslou H., Hadifar H., **Ghanizadeh A.R.**, Kharazmi S. (2019). "Biological stabilizers for different dispersive clayey soils", *AUT Journal of Civil Engineering*, Accepted for publication.
- [7]. Amlashi, A. T., Abdollahi, S. M., Goodarzi, S., & **Ghanizadeh, A. R.** (2019). Soft computing based formulations for slump, compressive strength, and elastic modulus of bentonite plastic concrete. *Journal of Cleaner Production*, 230:1197-1216.
- [8]. Tavana Amlashi A., **Ghanizadeh A.R.**, Abbaslou H., Alidoust P. (2019). "Developing three hybrid machine learning algorithms for predicting the mechanical properties of plastic concrete samples with different geometries", *AUT Journal of Civil Engineering*, Accepted for publication.
- [9]. **Ghanizadeh A.R.** Bayat M., Tavana Amlashi A., Rahrovan M. (2019). " Prediction of unconfined compressive strength of clay subgrade soil stabilized with Portland cement and lime using Group Method of Data Handling (GMDH)". *Journal of Transportation Infrastructure Engineering*. 5(1):77-96.
- [10]. **Ghanizadeh A.R.** and Heydarabadizadeh N. (2019). "Effect of Penalty Function on the Highway vertical alignment optimization using APSO and CBO", *Quarterly Journal of Transportation Engineering*. Accepted.
- [11]. **Ghanizadeh A.R.**, Ghaderi F., Abbaslou H. (2019). "A Numerical Study on the Effect of Geocell Reinforced Base Layer on the Fatigue and Rutting Life of Flexible Pavements using Nonlinear Finite Element", *Quarterly Journal of Transportation Engineering*. 11(1):45-92.
- [12]. **Ghanizadeh A.R.**, Yarmahmoodi A., Abbaslou H. and Dadkani S. (2019). "Proposing a Model for prediction of compaction parameters of clay subgrade soil stabilized with Portland cement and iron ore tailing by means of RSM method", *Jadeh*. 26(97):97-110.
- [13]. Mansourian A., **Ghanizadeh A.R.** and Golchin B. (2019). "Modeling of resilient modulus of asphalt concrete containing reclaimed asphalt pavement using Feed-Forward and Generalized Regression Neural Networks", *Rehabilitation in Civil Engineering*, 7(1): 74-92.
- [14]. Ghanizadeh A.R., Abbaslou H., Tavana Amlashi A. (2019). "Modeling of bentonite/sepiolite plastic concrete compressive strength using artificial neural network and support vector machine", *Frontiers of Structural and Civil Engineering*, 13(1): 215–239.
- [15]. Aboutalebi Esfahani M., **Ghanizadeh A.R.** and Heydarabadizadeh N. (2019). "Evaluation of Metaheuristic Methods to Optimize Vertical Alignment of Highway Route", *Journal of Transportation Infrastructure Engineering*, 3(4):77-94.
- [16]. **Ghanizadeh A.R.**, Heydarabadizadeh N. and Ziaie A. (2019). "Development of mathematical model for pavement surface deflection basin and determination of optimal distance of FWD geophones, *Jadeh*, Accepted for publication.
- [17]. **Ghanizadeh A.R.** and Tavana Amlashi A. (2018). "Prediction of Fine-grained Soils Resilient Modulus using Hybrid ANN-PSO, SVM-PSO and ANFIS-PSO Methods", *Quarterly Journal of Transportation Engineering*, 9(Special Issue on Pavement Engineering): 159-181.
- [18]. **Ghanizadeh A.R.**, Karimi M., Tavana Amlashi A. (2018). "Modeling of compressive strength of roller-compacted concrete containing reclaimed asphalt pavement using response surface methodology (RSM)", *Journal of Concrete Research*, 11(2): 67-79.
- [19]. Kazeminia A, **Ghanizadeh A.R.** (2018). "Evaluation of Seismic vulnerability of transport networks with an emphasis on criteria earth resistance and design of routes and rescue using GIS", *Journal of Geospatial Information Engineering*, 6(1):57-76.

- [20]. Abbaslou H., Delnavaz E., **Ghanizadeh A.R.** (2018). "Analysis of Chloride diffusivity in green concrete based on Fick's second law", *AUT Journal of Civil Engineering*, Accepted for publication.
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- [22]. **Ghanizadeh A.R.** and Fakhri M. (2018). "Quasi-static analysis of flexible pavements based on predicted frequencies using Fast Fourier Transform and Artificial Neural Network", *International Journal of Pavement Research and Technology*, 11(1),47-57.
- [23]. **Ghanizadeh A.R.**, Heydarabadizadeh N., (2018). " Optimization of Vertical Alignment of Highways in terms of Earthwork Cost Using Colliding Bodies Optimization (CBO) Algorithm", *International Journal of Optimization in Civil Engineering*, 8(4), 657-674
- [24]. **Ghanizadeh A.R.**, Rahrovan M. and Barkhordari Bafghi K. (2018). "The effect of cement and reclaimed asphalt pavement on the mechanical properties of stabilized base via full-depth reclamation", *Construction and Building Materials*, 161, 165–174.
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- [28]. **Ghanizadeh A.R.** (2017). "Application of Support Vector Machine Regression for Predicting Critical Responses of Flexible Pavements", *International Journal of Transportation Engineering*, 4(4):305-315.
- [29]. **Ghanizadeh A.R.** (2016). "Quasi-Static Analysis of Flexible Pavements based on Resilient Modulus Master", *Quarterly Journal of Transportation Engineering*, 8(1): 155-174.
- [30]. **Ghanizadeh A.R.**, Salajegheh B., Rahrovan M. (2016). "A Study on Resilient Modulus and Dynamic Creep of Asphalt Mixes Reinforced With Polyolefin – Aramid FORTA Composite Fibers", *Jadeh*, 84:161-178.
- [31]. Abbaslou H., **Ghanizadeh A.R.**, Tavana Amlashi A. (2016). "The compatibility of bentonite/sepiolite plastic concrete cut-off wall material", *Construction and Building Materials*, Elsevier Publishing Co., 124, 1165–1173.
- [32]. **Ghanizadeh A.R.**, (2016). "An optimization model for design of asphalt pavements based on IHP Code No. 234", *Advances in Civil Engineering*, Volume 2016, 8 pages, <http://dx.doi.org/10.1155/2016/5942342>.
- [33]. **Ghanizadeh A.R.** and Rahrovan M., (2016). "Application of Artificial Neural Network to Predict the Resilient Modulus of Stabilized Base Subjected to Wet-Dry Cycles", *Computations and Materials in Civil Engineering* 2016, 1(1), 37-47.
- [34]. **Ghanizadeh A.R.** and Ahadi M., (2015). "Application of Artificial Neural Networks for Analysis of Flexible Pavements under Static Loading of Standard Axle", *International Journal of Transportation Engineering*, 3(1):31-43.
- [35]. **Ghanizadeh A.R.** and A. Ziaei, (2015). "NonPAS: A Program for Nonlinear Analysis of Flexible Pavements", *International Journal of Integrated Engineering*, 7(1):21-28.
- [36]. **Ghanizadeh A.R.**, Salajegheh B., Rahrovan M. (2015). "Application of Adaptive Neuro-Fuzzy Inference System for Modeling of International Roughness Index in Jointed Plane Concrete Pavements", *Journal of Transportation Infrastructure Engineering*, 1(4):29-43.

- [37]. Fakhri M., **Ghanizadeh A.R.**, (2014). "An experimental study on the effect of loading history parameters on the resilient modulus of conventional and SBS-modified asphalt mixes", *Construction and Building Materials*, Elsevier Publishing Co., 53: 284–293, 2014.
- [38]. **Ghanizadeh A.R.** and Fakhri M. , (2014). "Prediction of frequency for simulation of asphalt mix fatigue tests using MARS and ANN", *The World Scientific Journal*.
- [39]. Fakhri M., **Ghanizadeh A.R.**, (2014). "Modeling of 3D response pulse at the bottom of asphalt layer using a novel function and artificial neural network", *International Journal of Pavement Engineering*", 15(8): 671-688.
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- [43]. Fakhri M., **Ghanizadeh A.R.** and Dolatalizadeh M., (2013). "Characterizing Horizontal Response Pulse at the Bottom of Asphalt Layer Based on Viscoelastic Analysis", *International Journal of Pavement Research and Technology*", 6(4):379-385.
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- [45]. Fakhri M., Dolatalizadeh M., **Ghanizadeh A.R.** (2013). "Evaluation of Axle Equivalency Load Factors Based on the Fatigue Criterion of Asphalt Layer Using Dissipated Energy Method and Compared with Proposed Factors in Asphalt Pavement Regulations of Iran Roads", *Quarterly Journal of Transportation Engineering*, 5(3):347-366.
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- [48]. Ghasemzadeh H. and **Ghanizadeh A.R.** and Fakhri M. (2010). "The effect of error in estimation of input parameters on predicting error of pavement life using Monte Carlo Simulation method", *Civil Engineering Journal (Ferdosi university)*, 3(2): 115-130.
- [49]. Fakhri M. and **Ghanizadeh A.R.** (2010). "Developing a Program for Nonlinear Analysis of Flexible Pavements", *Quarterly Journal of Transportation Engineering*, 3(3): 245-257.
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- [53]. **Ghanizadeh A.R.** and Fakhri M. (2009). "A Mixed-Integer programming model to Determine the Optimum Design of Flexible Pavement Structure", *Australian Journal of Basic and Applied Sciences*, 3(3):1652-1660

- [54]. Fakhri. M. and **Ghanizadeh. A.R.**, "The Study of Factors Affecting the Shape and Duration of Vertical Stress Pulses in Asphalt Layers ", Journal of Jadeh, IRDO, No. 68, pp:157-167.(in Persian).
- [55]. Fakhri. M, **Ghanizadeh. A.R.**, "Determination of optimum Bitumen Content in Marshal Mix Design method by means of a Nonlinear Programming Model", Iranian Journal of Transportation Research, TRI, 3(4):1:15.
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- [57]. **Ghanizadeh. A.R.**, Fakhri. M., (2005). "Optimal design of Highway corridor using GIS", Journal of Jadeh, IRDO, No. 53, Summer 2005.(in Persian)
- [58]. **Ghanizadeh. A.R.**, Fakhri. M., (2003). "Comparison of construction cost for CRAM pavements and other types of flexible pavements in Iran", Journal of Jadeh, IRDO , No. 49.

Conference Papers

- [57]. **Ghanizadeh A.R** and Zolfaghari. M. and H. Abbaslou, 2019, "Effect of Lime and Iron Ore Mine Tailings on Compressive Strength of Clayey subgrade", 11th National Congress of Civil Engineering, Shiraz, Iran.
- [58]. **Ghanizadeh A.R** and Shahsavari. Y., H. Abbaslou and Dadakani S., 2019, "Biological Stabilization of Iron Ore Tailings of Golgohar Mine of Sirjan", 11th National Congress of Civil Engineering, Shiraz, Iran.
- [59]. Nourmandipour S., **Ghanizadeh A.R** and H. Abbas, 2019, "Evaluation of Compressive Strength of Geopolymer Bricks made Using Vermiculite Clay", 6th National Conference on Applied Research in Civil Engineering, Architecture and Urban Management, Tehran, Iran.
- [60]. Hajebrahimi A., **Ghanizadeh A.R** and H. Abbasloo, 2019, "Compressive strength evaluation of silicate bricks made using Mica clay", 6th National Conference on Applied Research in Civil Engineering, Architecture and Urban Management, Tehran, Iran.
- [61]. **Ghanizadeh A.R** and Zolfaghari. M. and H. Abbaslou, 2018, "Effect of Compaction Moisture on Compressive Strength of Clay Stabilized with Lime and Iron Ore Mine Tailings", 10th Conference on Bitumen, Asphalt and Related Machinery Exhibition, Road Research Center, Housing and Urban Development, Tehran, Iran.
- [62]. **Ghanizadeh A.R** and Heydarabadizadeh N., 2018, "Modeling of Flow Number of Asphaltic Mixtures Using Artificial Neural Network Method", 10th Conference on Bitumen, Asphalt and Related Machinery Exhibition, Road Research Center, Housing and Urban Development, Tehran, Iran.
- [63]. **Ghanizadeh A.R** and Heydarabadizadeh N., 2018, "Modeling of Flexible Pavement Deflection Basin Using Artificial Neural Network Method", 10th Conference on Bitumen, Asphalt and Related Machinery Exhibition, Road Research Center, Housing and Urban Development, Tehran, Iran.
- [64]. **Ghanizadeh A.R** and A. Fakhri, 2018, "Adjustment of GPS Networks Using Particle Swarm Algorithm", 25th Conference on Geomatics, Tehran, Iran.
- [65]. Yarmahmoud A., **Ghanizadeh A.R** and H. Abbaslou, 2018, "Red Clay Soil Stabilization Using Iron Ore Mine Tailings", 1st National Congress on Environmental Geotechnics, Fasa, Iran.
- [66]. Yarmahmoudi. A., **Ghanizadeh A.R.** and H. Abbaslou, 2018, "Kerman province Red Clay Soil stabilization Using Portland Cement", 1st National Congress on Environmental Geotechnics, Fasa, Iran.

- [67]. **Ghanizadeh. A.R** and A. Rezaei, 2017, "Investigation of Seepage Discharge in Earth Dams Using Finite Element Method", 1st Congress of Civil, Architecture and Environmental Sciences, Tehran, Iran.
- [68]. **Ghanizadeh A.R** and A. Fakhri, 2017, "Developing a program for 3D Network Adjustment in MATLAB, International Conference on Modern Advances in Civil Engineering, Amol, Iran.
- [69]. **Ghanizadeh A.R**, Ghaderi F. and Jafaraghaei. Y., 2017, "Two-dimensional and three-dimensional analysis of pavement using ABAQUS program and comparison of results with KENLAYER and MICHPAVE", International Conference on Modern Advances in Civil Engineering, Amol, Iran.
- [70]. A. Ghanizadeh, B. Rashidi, CR. Clarkson, A. Vahedian, C. P Vocke, **A.R. Ghanizadeh**, 2017, "Indirect Estimation of Fluid Transport and Rock Mechanical Properties from Elemental Compositions: Implications for "Sweet Spot" Identification in the Montney Formation (Canada)", Unconventional Resources Technology Conference (URTEC).
- [71]. H. Abbaslou, A. Tavana Amlashi, **A.R. Ghanizadeh**, S. Azemi. Plastic concrete cut-off walls in earth dams: a perspective of arid environment clay mineral resources", 16th International Clay Conference (ICC), Granada, Spain.
- [72]. **Ghanizadeh A.R** and Rahrovan M., 2016, "Evaluation of Subgrade Soil Properties and Pavement Layers in Sirjan City Roads", 1st National Conference on Sustainable Urban Development and Management, Sirjan, Iran.
- [73]. **Ghanizadeh A.R** and Heydarabadizadeh N., 2016, "Prediction of Accidents using SVM method", 1st National Conference on Sustainable Urban Development and Management, Sirjan, Iran.
- [74]. Asadi Z., Bakhtiari S., **Ghanizadeh A.R** and Abbaslu H., 1986, "Impact of Agricultural Waste on Concrete Properties", 6th National Conference and Second International Conference on New Materials and Structures in Civil Engineering, Yazd, Iran.
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- [76]. **Ghanizadeh A.R**, 2016, "Predicting the Resilient Modulus of Stabilized Base Materials Using GRNN Neural Network", 2nd National Conference on Concrete Procedures, Tehran, Iran.
- [77]. **Ghanizadeh A.R**, Abbaslou H. and Tavana Amlashi A., 2016, "Predicting the Modulus of Elasticity of Plastic Concrete Using Artificial Neural Network Optimized with Particle Swarm Algorithm", 2nd Conference on Evolutionary Computing and Intelligence, Kerman, Iran.
- [78]. **Ghanizadeh A.R**, Abutalebi Esfahani M. and Heydarabadizadeh N., 2016, "Developing a program in MATLAB for computation of earthwork volumes of Roads and Railways", 4th International Congress on Civil, Architecture and Urban Development, Tehran, Iran.
- [79]. **Ghanizadeh A.R** and Abutalebi Esfahani M. and Heydarabadizadeh N., 2016, "Optimization of Road Vertical Alignment Using Firefly Algorithm", 4th International Congress of Civil, Architecture and Urban Development, Tehran, Iran.
- [80]. **Ghanizadeh A.R**, Abbaslou H. and Tavana Amlashi A., 2016, "Prediction of Plastic Concrete slump Using Support Vector Machine", 5th International Conference on Geotechnical Engineering and Soil Mechanics, Tehran, Iran.
- [81]. **Ghanizadeh A.R** and Rahrovan M., 2016, "Predicting the Resilient Modulus of Subgrade Soils Using Neuro-Fuzzy Method", Fifth International Conference on Geotechnical Engineering and Soil Mechanics, Tehran, Iran.

- [82]. **Ghanizadeh A.R.**, (2016). "Economic Evaluation of Full Pavement Reclamation Method for rehabilitation of Sirjan Streets.", 8th Iranian Bitumen and Asphalt Conference, Tehran, Iran.
- [83]. **Ghanizadeh A.R.**, Rahrovan M. and Barkhordari Bafaqi K., 2016, "Influence of percentage of RAP and cement on the compressive strength and compaction properties of Soil-RAP blend", 8th Iranian Bitumen and Asphalt Conference, Tehran, Iran.
- [84]. **Ghanizadeh A.R.**, 2016, "The Effect of Portland Cement on the Compressive Strength of Soil-RAP blend", International Elite Conference on Civil, Architecture and Urban Planning, Tehran, Iran.
- [85]. **Ghanizadeh A.R.**, 2015, "Backcalculation of Layer Moduli of JPCP pavements Using Artificial Neural Network Method", 1st National Conference on Concrete Procedures, Tehran, Iran.
- [86]. **Ghanizadeh A.R.** and Mahiapour. Y., 2015, "Predicting the IRI of JPCP pavements Using Artificial Neural Network Method", 1st National Conference on Concrete Procedures, Tehran, Iran.
- [87]. Omrani H., **Ghanizadeh A.R.**, 2015, "Influence of SBS polymer on the Fatigue of WMA Mixtures", 10th International Congress of Civil Engineering, Tabriz, Iran.
- [88]. **Ghanizadeh A.R.** and Fakhri. Mansour, 2014, "Prediction of Frequency for Fatigue Testing of Asphalt Mixtures Based on Viscoelastic Analysis", 2nd International Conference on Structural, Architectural and Urban Expansion, Tabriz, Iran.
- [89]. **A.R. Ghanizadeh**, (2014). "Analysis of flexible pavements by means of Artificial Neural Network", 6th national conference on Asphalt and Asphalt Mixes, Tehran, Iran.
- [90]. **A.R. Ghanizadeh** (2014). "Determination of optimum structure and thickness of asphaltic pavements with respect to construction cost of materials in Iran", 6th national conference on Asphalt and Asphalt Mixes, Tehran, Iran.
- [91]. **A.R. Ghanizadeh** and A. Ghanizadeh (2014). "Developing a program for design of flexible pavements based on Iranian asphaltic pavement design code (Code 234)", 6th national conference on Asphalt and Asphalt Mixes, Tehran, Iran.
- [92]. **A.R. Ghanizadeh** and M. Fakhri (2014) "Numerical investigation on the effect of waveform on the resilient modulus of asphalt mixes", 6th national conference on Asphalt and Asphalt Mixes, Tehran, Iran.
- [93]. S.A. Tabatabaie, A.R. Raie and **A.R. Ghanizadeh** (2014). "The effect of waste glass filler on the specifications of Hot Mix Asphalt", 6th national conference on Asphalt and Asphalt Mixes, Tehran, Iran.
- [94]. **A.R. Ghanizadeh** (2014) "Continues modeling of pavement deflection basin using the minimum deflection data", 1st national conference of Civil Engineering, Architecture and Urban Environment, Hamedan, Iran.
- [95]. **A.R. Ghanizadeh**, M. Fakhri, K. Hassani (2014). "Effect of rest period on the fatigue life of SBS modified asphalt mixes", 1st national conference of Civil Engineering, Architecture and Urban Environment, Hamedan, Iran.
- [96]. **A.R. Ghanizadeh**, S. Naji Almasi (2014). "Effect of moving speed and temperature on critical strains of flexible pavements", 1st national conference of Civil Engineering, Architecture and Urban Environment, Hamedan, Iran.
- [97]. M. Fakhri, **A.R. Ghanizadeh** and M. Dolatalizadeh (2013). "Characterizing Horizontal Response Pulse at the Bottom of Asphalt Layer Based on Viscoelastic Analysis", 8th International Conference on Road and Airfield Pavement Technology (8th ICPT), Taipei, Taiwan.

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- [99]. **A.R. Ghanizadeh** and M. Fakhri and A.Ziae (2013). "Application of ANN in predicting of compressive strain and rutting of flexible pavements", 1st National Conference on Transportation Infrastructures, Tehran, Iran.
- [100]. **A.R. Ghanizadeh** and M. Fakhri (2013). "Effect of Speed and Temperature on tensile strain and fatigue life of asphalt layers", 1st National conference on Transportation infrastructures, Tehran, Iran.
- [101]. M. Fakhri. **A.R. Ghanizadeh** and M. Dolatalizadeh. " Effect of different parameters on the shape and duration of horizontal stress and strain pulse at the bottom of asphalt". 2nd Middle East Society of Asphalt Technology (MESAT). Sharjah. UAE. 2013
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- [103]. Fakhri. M. and **Ghanizadeh. A.R.** (2010). "Evaluation of Responses and performance of CRAM pavements and comparision of them with conventional pavements", 5th conference on Asphalt and Asphalt mixes, Tehran, Iran.
- [104]. Fakhri. M. and **Ghanizadeh. A.R.** (2010). "Introduction of New method for port pavement design in Iran", 2nd conference on Structure, Earthquake and Geotechnics, Babolsar, Iran.
- [105]. **Ghanizadeh. A.R.**, and Fakhri M. (2010). "A model for Optimum Design of Flexible Pavement Design", 1st National Congress on Construction Management, Tehran, Iran.
- [106]. **Ghanizadeh. A.R.** (2008). "Using of ClassLESA DLL class to analyze elastic multilayered systems", 4rd National conference on Iranian Civil Engineering, Tehran, Iran.
- [107]. **Ghanizadeh. A.R.**, Fakhri. M. (2008). "The study of CRAM pavements and their mechanical performance", 4rd National conference on Iranian Civil Engineering, Tehran, Iran.
- [108]. **Ghanizadeh. A.R.** (2007). "Validation of responses for PAT 1.00 software on Analysis of Flexible Pavements", 3rd National conference on Iranian Civil Engineering, Tabriz, Iran.
- [109]. **Ghanizadeh. A.R.**, Fakhri. M. (2006). "Comparison of general capabilities of pavement design software and recommendation of best choice for Iran", 3rd conference on Asphalt and Asphalt mixes, Tehran, Iran.

Developed Software:

- VAOptimizer (Vertical Alignment Optimizer)
- LandXML2CSDP
- NONPAS (NONlinear Pavement Analysis Software)
- PDS 234 (a computer program based on Iranian Asphaltic Pavement Design Code 234)
- PG4Civil 3D (Profile Generator for AutoCAD Civil 3D)
- PG for ALD (Profile Generator for Autodesk Land Desktop)
- ASPHA Design (ASphaltic PAVement Design)
- PAT (Pavement Analysis Tool)
- ALD2CSDP (Autodesk Land Desktop to CSDP convertor)
- Civil2CSDP (AutoCAD Civil 3D to CSDP convertor)
- ClassLESA (a DLL library class for Layered Elastic System Analysis)

Research Projects and Grants

Ali Reza Ghanizadeh

1. 2016. Technical and Economical evaluation of Full Depth Reclamation (FDR) Method for rehabilitation and improvement of Sirjan Streets, Sirjan Municipality.
2. 2014. Developing a computer program for design of flexible pavements based on 234 Code, South kerman Department of Transportation, Tehran, Iran.
3. 2012. Standard Code for Port Design and Construction, K.N.Toosi University of Technology, Tehran, Iran.
4. 2005. Design and Implementation of software for calculating of highway Curves and curve's layout tables, Shahid Bahonar university of Kerman, Kerman, Iran.
5. 2003. Evaluation of pavement Analysis and Design Software and recommendation of the best choice for Iran". Transportation research Institute, Tehran, Iran.
6. 2002. The study of mechanical performance of CRAM pavements and comparison of them with other Types of Flexible Pavements, Transportation research Institute, Tehran, Iran.

Awards, Honorary Degrees, Medals:

- ❑ Selected Researcher, Sirjan University of Technology (2nd rank), 2018
- ❑ The Best Researcher, Department of Civil Engineering, Sirjan University of Technology, 2017
- ❑ The Best Researcher, Department of Civil Engineering, Sirjan University of Technology, 2016
- ❑ The Best researcher among Ph.D students, Department of Civil Engineering, K.N.Toosi University of Technology, Tehran, Iran, 2013
- ❑ The Best researcher of Sirjan University of technology, 2010
- ❑ The Best researcher of Sirjan University of technology, 2009
- ❑ Top Student of B.S, Department of Geomatics Engineering, K.N.Toosi University of Technology, Tehran, Iran, 1999
- ❑ Top Student of M.S, Department of Road and Transportation Engineering, University of Tehran, Tehran, Iran, 2001

Membership to Scientific Associations:

- ❑ Iranian Society of Pavement Engineering, 2003-present
- ❑ Iranian Society of Civil Engineering, 2004-present
- ❑ Association of Asphalt Pavement Technologist, USA, 2010-present
- ❑ National Transportation Infrastructures Research Center (NTIRC), 2011-present
- ❑ Society of Iranian Surveying Engineers, 2014-present

Referee/Reviewer:

- ❑ International Journal of Transportation Engineering (IJTE)
- ❑ International Journal of Engineering (IJE)
- ❑ Road Materials and Pavement Design (RMPD)
- ❑ Construction and Building Materials
- ❑ Journal of Rehabilitation in Civil Engineering
- ❑ Frontiers of Structural and Civil Engineering
- ❑ Advances in Mechanical Engineering
- ❑ Quarterly Journal of Transportation Engineering (in Persian)
- ❑ Journal of Transportation Infrastructure Engineering (in Persian)
- ❑ Journal of Concrete Research (in Persian)