



Amirkabir University of Technology
(Tehran Polytechnic)



Email:

moghadas@aut.ac.ir

Phone:

h-index (Scopus):

34

Citations (Scopus):

3485

FEREIDOON MOGHADAS NEJAD

Professor

Department of Civil and Environmental
Engineering

Geotechnics, Roads and Transportation

Specialty



Research Interests

#	Title	Start date
1	Image Processing, Automation, Fuzzy and Numerical Methods in Pavement and Railway Engineering	
2	Constitutive Models for Pavements (Elastic, Elastoplastic and Viscoplastic Behaviour)	
3	Computational Models for Asphalt and Concrete Pavements (Thermal modeling, Modeling of Structural Behaviour)	
4	Railway Management Systems, Pavement Rehabilitation and Maintenance	
5	Pavement Management Systems, Pavement Rehabilitation and Maintenance	
6	Nondestructive Testing (i.e. FWD, GPR)	
7	Soil Reinforcement	
8	Pavement Recycling	
9	Pavement Materials Testing	

Supervised MSc Theses

#	Thesis title	By	Date
1	Modeling of the effect of climatic conditions on mechanical characteristics of the asphalt mixture	Reza Sepaspour & Fereidoon Moghadas Nejad	March 2022
2	Modeling of the effect of climate conditions on high- and low-temperature distresses of asphalt pavements	Alireza Askari & Fereidoon Moghadas Nejad	March 2022
3	the presentation of evaluation and indexing system for asphalt potholes and the impact of vehicle trajectory by means of image processing	Sina Mohammadzade Saliari & Fereidoon Moghadas Nejad	February 2022
4	the presentation of the system of automatic detection of landfall on the roads	Elahe Safari Ghale Koli & Fereidoon Moghadas Nejad	October 2021
5	Investigation of Thermal Conductivity and Heat transfer Characteristics of Modified Asphalt Mixtures	Mohammad Javad Nayeb Hosseini & Fereidoon Moghadas Nejad	September 2021
6	Investigating the effect of combining geometric design specifications on driving behavior using a driving simulator	Sina Moogehi & Fereidoon Moghadas Nejad	April 2021
7	Development of a prediction models for concrete pavement failures using LTPP data	Mehrdad Ehsani & Fereidoon Moghadas Nejad	March 2021
8	Investigation of reclaimed asphalt Pavement (RAP) fatigue behavior using polymer	Mohammadali Ziari & Fereidoon Moghadas Nejad	February 2020
9	Design the automatic system for investigation of pavement surface bleeding	Sajad Ranjbar & Fereidoon Moghadas Nejad	September 2019
10	The Effect of Shrinkage Reducing Admixture on the Behavior of Concrete Pavements	Masood Gholami & Fereidoon Moghadas Nejad	September 2019
11	Providing an Automatic System based on Image processing for Quality Control of coating	Mozhgan Hajiali & Fereidoon Moghadas Nejad	February 2019
12	An experimental study and numerical simulation on engineering properties of concrete fiber overlay on the concrete	Mir Mahmoud Hasani & Fereidoon Moghadas Nejad	February 2019
13	Evaluating the possibility of using re-refining waste engine oil bottom in asphalt mixtures	Sina Sadeghi & Fereidoon Moghadas Nejad	January 2019
14	Impact assessment of advertisement on drivers distraction (case study: advertisement on taxis	Mohammadreza Abhari & Fereidoon Moghadas Nejad	July 2018
15	evaluating the effect of modifiers on performance-related properties of porous asphalt mixture	Navid Ghafari Hashjin & Fereidoon Moghadas Nejad	July 2017
16	evaluating the effect of modifiers on performance -reated properties of stone mastic asphalt mixture (SMA	Shahriar Estakhri & Fereidoon Moghadas Nejad	February 2017
17	assessment of behavior of recycle mat rubber as the vibration -absorbing layer for urban railway	Amirabbas Maleki & Fereidoon Moghadas Nejad	February 2017
18	evaluation of healing in modified bitumen with afm	Ali Akbar Adelian & Fereidoon Moghadas Nejad	February 2017
19	evaluating the pavement performance with waste toner modified asphalt	Mohammad Ali Notani & Fereidoon Moghadas Nejad	February 2017
20	investigation the rutting parameter in modifeid bitumen with ppa additive	Mojtaba Khodadadi & Fereidoon Moghadas Nejad	January 2017

21	a laboratory investigation on dynamic performance of railway track subgrade mixed with shred tire	Hamed Abbassi Zamenjani & Fereidoon Moghadas Nejad	July 2016
22	Investigation of the properties of cement-asphalt mortars used for construction of high - speed rail lines	Mehran Habibi & Fereidoon Moghadas Nejad	February 2016
23	Production of flowable concretes for slip-form concrete paving	Ali Gerami Matin & Fereidoon Moghadas Nejad	February 2016
24	Investigation on dynamic behavior of ballast materials in ballast box test considering DEM approach	Sina Argi & Fereidoon Moghadas Nejad	October 2015
25	Evaluating the effects of wheel defects on the transmitted vibration in railway systems	Bahman Soltani & Fereidoon Moghadas Nejad	October 2015
26	Selection optimized method of ppp Approach in financing (Highway) project	Amir Hosein Khalilianpoor & Fereidoon Moghadas Nejad	October 2015
27	An investigation on the effects of reclaimed asphalt pavement (RAP), temperature and a type of rejuvenator and their interactions on healing rate of reclaimed asphalt mixtures	Seyed Yashar Beheshti Shirazi & Fereidoon Moghadas Nejad	September 2015
28	Study the Effects of Using Polyethylene Wax on the Characteristics of Rubber Asphalt Mixtures	Arash Rahimi Yengejeh & Fereidoon Moghadas Nejad	July 2015
29	Investigation of Effects of waste engine oil on Asphalt concrete	Reza Khanmohammadian & Fereidoon Moghadas Nejad	March 2015
30	Anew index for compaction of ac based on image processing and fuzzy logic	Mohammad Mahdi Makhmalbaf & Fereidoon Moghadas Nejad	October 2014
31	Control of rail and fastenings failures using image processing	Nasser Taheri & Fereidoon Moghadas Nejad	September 2014
32	development and implementation of a pavement management system based on fuzzy theory	Mohammad Hossein Karimian & Fereidoon Moghadas Nejad	September 2014
33	Modeling of hot mix asphalt compaction in field using laboratory data	Reza Maskani & Fereidoon Moghadas Nejad	February 2014
34	Experimental evaluation of effect of rest time on healing mechanism of asphalt mixture	Hossein Sorkhabi & Fereidoon Moghadas Nejad	October 2013
35	Effect of temperature and width parameters on performance geosynthetics left in control of reflection cracks	Saeid Asadi & Fereidoon Moghadas Nejad	July 2013
36	Design and manufacturing a automatic pavement skid resistance system based on image processing approach	Nasrin Karimi & Fereidoon Moghadas Nejad	February 2013
37	Study of Applied Load Frequency and Temperature Variations on Stripping of Polymer Asphalt Mixtures	Arash Salehahari & Fereidoon Moghadas Nejad	February 2012
38	Developing An Optimizing Program For Reducing The work zones Effects (compare between some solutions with the base of AIMSUN program	Mehdi Kheirkhah & Fereidoon Moghadas Nejad	January 2012
39	Study of Applied Load Frequency and Temperature Variations on stripping of Asphalt Mixtures	Smhosein Dehnad & Fereidoon Moghadas Nejad	September 2011
40	Modelling Accident Rate and Severity in Rural Roads (A Case Study: Yazd Provice)	Nemat Soltani & Fereidoon Moghadas Nejad	September 2011
41	experimental survey on improvement fatigue behaviorof asphalt mixture with healing phenomena	Mohammad Notash & Fereidoon Moghadas Nejad	June 2011

42	Travel thime rediction model in the road network by applying the neural networking method	Mohammad Mohseni & Fereidoon Moghadas Nejad	September 2010
43	EFFECT OF GEOSYNTHETICS ON REFLECTIVE CRACK PREVENTION	Alireza Noory & Fereidoon Moghadas Nejad	September 2010
44	Development of a model for prediction of a suitable repair time	Mohammadreza Roozbehani & Fereidoon Moghadas Nejad	August 2009
45	Investigation on Modeling of Dynamic Behavior of Railway Track System	Milad Saghebfar & Fereidoon Moghadas Nejad	August 2009
46	Analysis and Design Optimization Sleeper in Switch using ANSYS	Mehdi Khosravi & Fereidoon Moghadas Nejad	May 2009
47	Comparison of fatigue behavior between SMA and HMA in different compositions	Mojtaba Ale Mohammadi & Fereidoon Moghadas Nejad	March 2009
48	Design of an advanced road traffic accident data gathering system	Ali Safaee Matin & Fereidoon Moghadas Nejad	January 2009
49	an expert system for assessment of crack deterioration pavement surface	Hamzeh Zakeri & Fereidoon Moghadas Nejad	January 2009
50	A Study on Mechanical Characteristics of Emulsified Asphalt Mixture Consisting of Reclaimed Asphalt avement (RAP) and Virgin Aggregate	Bahman Moradi Bajestani & Fereidoon Moghadas Nejad	August 2008
51	Numerical Analysis of Thermal and Combined Stresses in Pre-stressed Concrete Pavement	Mehrnaz Mashayekhi & Fereidoon Moghadas Nejad	March 2008
52	Performance Evaluation Of Carbon Fiber Modified Asphalt	Seeyamak Baiitabar & Fereidoon Moghadas Nejad	March 2008
53	Numerical Analysis of concrete Overlays on Flexible Pavements	Sepehr Ghaffari & Fereidoon Moghadas Nejad	January 2008

Books

#	Title	Author(s)	Publisher country	publication date	version
Portal Records					
1	Concrete Pavement (Materials, Design ,Construction, Maintenance)	Fereidoon Moghadas Nejad, Seyed Yashar Beheshti Shirazi	Iran (Islamic Republic of)	September 2017	2
2	Road Geometric Design by Computer	M. Maleki, Fereidoon Moghadas Nejad, S. Toolabi	Iran (Islamic Republic of)	September 2013	1
3	Fuzzy Controllers- Recent Advances in Theory and Applications	Mohammad Hossein Fazel Zarandi, Fereidoon Moghadas Nejad, Hamzeh Zakeri	Austria	September 2012	1
4	Metaheuristics in Water, Geotechnical and Transport Engineering	Fereidoon Moghadas Nejad, Hamzeh Zakeri	none	September 2012	1

5	Concrete Pavement (Materials, Design ,Construction, Maintenance)	Fereidoon Moghadas Nejad, Seyed Yashar Beheshti Shirazi	Iran (Islamic Republic of)	October 2016	1
6	Life Cycle Cost Analysis in Railway Engineering	Masoud Fathali, Zakeri, J. A., Fereidoon Moghadas Nejad	Iran (Islamic Republic of)	October 2015	1
7	Using Geosynthetics to Control Reflective Cracking	Fereidoon Moghadas Nejad	Iran (Islamic Republic of)	November 2007	1
8	Design and Construction of Slab Track (Ballast-less Railway (Fereidoon Moghadas Nejad	Iran (Islamic Republic of)	May 2004	0
9	Managing Construction Equipment	Fereidoon Moghadas Nejad, Mirmohamadi, V., Mirmohamadi, A.	Iran (Islamic Republic of)	March 2015	2
10	Railway Engineering	Arabani, I., Fereidoon Moghadas Nejad	Iran (Islamic Republic of)	March 2013	4
11	Construction Equipments Management	Fereidoon Moghadas Nejad, Vahid Mirmohammadi, -	Iran (Islamic Republic of)	March 2010	1
12	Railway Engineering	[en-name N/A], Fereidoon Moghadas Nejad	Iran (Islamic Republic of)	March 2005	1
13	Airfield Concrete Pavement- Part One: Materials and Construction	.Chini, M., Hajikarimi, P., Fereidoon Moghadas Nejad, Tadayon, M.	Iran (Islamic Republic of)	June 2019	1
14	Design & Construction of Concrete Block Pavement for Roads, Ports & Airports	Fereidoon Moghadas Nejad	Iran (Islamic Republic of)	June 2018	1
15	Computational intelligence for modeling of pavement surface characteristics	Behrouz Mataei, Fereidoon Moghadas Nejad, , Amir H. Gandomi	United States	July 2020	1
16	Computational intelligence for modeling of asphalt pavement surface distress	Sajad Ranjbar, Fereidoon Moghadas Nejad, , Amir H. Gandomi	United States	July 2020	1
17	Plastic geomembranes and associated profile strips-Part 1: Plasticized polyvinyl chloride (PVC-P) and flexible polyolefin based (FPO) geomembranes- Specifications and test methods	Hossein Nazokdast, F. Peyghami, Ebrahimizadeh, Hanieh Ahmad, S. Ahmadi, P. Akbarian, R. Pourghasemiastaneh, Sara Tarashi, S. Jafarzadeh, M.H. Hjjali, M.R. Moghtaderi, Seyyedeh Kosar Alavi, A. Fayazi, E. Ghorbani, R . Ghasri, M. Karbalaee Bagher, P. Shaiga	Iran (Islamic Republic of)	January 2022	1

18	Geotextiles and geotextile-related products – Screening test methods for determining the resistance to acid and alkaline liquids	Hossein Nazokdast, F. Peyghami, S. Atlasi, R. Pourghasemi, S. Terashi, S. Kosaralavi, M. Karbalaee Bagher, E. Ghorbani, M. Masoudi, Fereidoon Moghadas Nejad, A. Mirbolouk, P. Noori	Iran (Islamic Republic of)	January 2022	1
19	Geosynthetics- High Density Polyethylene (HDPE) Geomembranes– Specifications and test methods (Amd. No. 1)	Hossein Nazokdast, F. Peyghami, A. Ebrahimizadeh, H. Ahmadi, S. Atlasi, H. Pourakbarian, R. Pourghasemi, S. Terashi, S. Jafarzadeh, M.H. Hajalian, H. Mghtaderi, Seyyedeh Kosar Alavi, A. Fayazi, E. Ghorbani, R. Ghasri, M. Karbalaee Bagher, P. Shaigan, M.	Iran (Islamic Republic of)	January 2022	1
20	Geosynthetics – Determination of compression behaviour – Part 1: Compressive creep properties	Hossein Nazokdast, F. Peyghami, S. Atlasi, R. Pourghasemi, Sara Tarashi, Seyyedeh Kosar Alavi, M. Karbalaee Bagher, E. Ghorbani, M. Masoudi, Fereidoon Moghadas Nejad, A. Mirbolouk, P. Noori	Iran (Islamic Republic of)	January 2022	1
21	Technical and Practical Principles of Slab Track Construction in Railway Projects	Soheil Ghyasvand, S. M. Bahrehdar, P. Sahebzamani, Fereidoon Moghadas Nejad	Iran (Islamic Republic of)	January 2021	1
22	Handbook of Flexible Pavement Engineering	Fereidoon Moghadas Nejad, Hamid Jahanian	Iran (Islamic Republic of)	February 2022	1
23	Bitumen and bituminous material- Determination of the paraffin wax content – Part 1: Method by distillation	Fereidoon Moghadas Nejad	Iran (Islamic Republic of)	February 2020	1
24	Asphalt surface treatments- Measurement of excess asphalt in slurry seal and microsurfacing mixtures by use of a loaded wheel tester and sand adhesion – Test method	Fereidoon Moghadas Nejad	Iran (Islamic Republic of)	February 2019	1
25	Asphalt surface treatments- Determine set and cure development of slurry seal and microsurfacing mixtures by cohesion tester– Test method	Fereidoon Moghadas Nejad	Iran (Islamic Republic of)	February 2019	1
26	Asphalt surface treatments- Determining mix time for slurry seal and microsurfacing mixtures – Test method	Fereidoon Moghadas Nejad	Iran (Islamic Republic of)	February 2019	1
27	Asphalt surface treatments- Classification of microsurfacing mixture materials compatibility by Schulze –Breuer and Ruck procedures– Test method	Fereidoon Moghadas Nejad	Iran (Islamic Republic of)	February 2019	1
28	Asphalt surface treatments- Wet stripping of cured slurry seal and microsurfacing mixtures – Test method	Fereidoon Moghadas Nejad	Iran (Islamic Republic of)	February 2019	1

29	Asphalt surface treatments- Wet track abrasion of slurry seal and microsurfacing mixtures – Test method	Fereidoon Moghadas Nejad	Iran (Islamic Republic of)	February 2019	1
30	Asphalt surface treatments- Measurement of stability and resistance to compaction, vertical and lateral displacement of multilayered fine aggregate cold mixes – Test method	Fereidoon Moghadas Nejad	Iran (Islamic Republic of)	February 2019	1
31	Bitumen and Bituminous Materials Penetration-Graded Asphalt Cement - Specification	Fereidoon Moghadas Nejad	Iran (Islamic Republic of)	February 2017	1
32	Bitumen and Bituminous Materials- Performance Graded Asphalt Binder for Use in Pavement Construction - Specification	Fereidoon Moghadas Nejad	Iran (Islamic Republic of)	February 2016	1
33	Advanced Mathematic and Its Application in Pavement Engineering	Fereidoon Moghadas Nejad, Hamzeh Zakeri, Ali Fereshtian	Iran (Islamic Republic of)	February 2015	1
34	A Management System Framework for Iran	Fereidoon Moghadas Nejad, [en-name N/A], [en-name N/A], [en-name N/A]	Iran (Islamic Republic of)	February 2009	1
35	Railway Concrete Slab Track, Fundamental of Analysis and Design	J.M.Sadeghi, A. Khajehdezfuly, Fereidoon Moghadas Nejad	Iran (Islamic Republic of)	December 2019	1
36	Applications of Viscoelasticity: Bituminous Materials Characterization and Modeling	Pouria Hajikarimi, Fereidoon Moghadas Nejad	Netherlands	April 2021	1
37	Meta heuristics and Optimization in Civil Engineering	Fereidoon Moghadas Nejad, Allahyari, A., Hamzeh Zakeri	United Kingdom	April 2016	1

Journal Papers

Portal Records

- Masood Gholami, Fereidoon Moghadas Nejad, Aliakbar Ramezaniapor, Amir M. Ramezaniapor, "The Effect of Emboss Fiber (Modified Polypropylene Fiber) on the Behavior of Concrete used in Concrete Pavements", , May 2022 Vol. 54, Num. 2, Page 1-23, May 2022,
- Behrouz Mataei, Fereidoon Moghadas Nejad,, "An Improved Multiresolution Technique for Pavement Texture Image Evaluating", MULTIMEDIA TOOLS AND APPLICATIONS, May 2022 Vol. 0, Num. 0, Page 1-25, May 2022,
- Masoud Fathali, Sina Argi, Morteza Emaeili, Fereidoon Moghadas Nejad, "Numerical Evaluation of the Behavior of Ballast-TDA Mixture in the Box Test Using Discrete Element Method", , May 2022 Vol. 19, Num. 71, Page 161-182, May 2022,
- Mehrdad Ehsani, Fereidoon Moghadas Nejad, Pouria Hajikarimi, "Developing an optimized faulting prediction model in Jointed Plain Concrete Pavement using artificial neural networks and random forest methods", INTERNATIONAL JOURNAL OF PAVEMENT ENGINEERING, April 2022 Vol. 0, Num. 0, Page 1-16, April 2022,

- 5 Alireza Askari, Pouria Hajikarimi, Mehrdad Ehsani, Fereidoon Moghadas Nejad, "Prediction of rutting deterioration in flexible pavements using artificial neural network and genetic algorithm", *Amirkabir Journal of Civil Engineering*, April 2022 Vol. 0, Num. 0, Page 1-24, April 2022,
- 6 Reza Sepaspour, Mehrdad Ehsani, Hamed Naseri, Fereidoon Moghadas Nejad, "Presenting a new estimation technique to model International Roughness Index and treatment improvement", *Amirkabir Journal of Civil Engineering*, March 2022 Vol. 7, Num. 4, Page 53-74, March 2022,
- 7 Sajad Ranjbar, Fereidoon Moghadas Nejad, "Asphalt Pavement Bleeding Evaluation using Deep Learning and Wavelet Transform", *Amirkabir Journal of Civil Engineering*, February 2022 Vol. 53, Num. 11, Page 1-27, February 2022,
- 8 , Mehrdad Ehsani, Fereidoon Moghadas Nejad, "Prediction model of crash severity in imbalanced dataset using data leveling methods and metaheuristic optimization algorithms", *INTERNATIONAL JOURNAL OF CRASHWORTHINESS*, February 2022 Vol. 0, Num. 0, Page 1-15, February 2022,
- 9 Roozbeh Zarroodi , Koorosh Naderi, Mehdi Moazami Goodarzi, Hossein Nazari , Fereidoon Moghadas Nejad, "Using Polyphosphoric Acid and Sulfur to Improve Storage Stability, Aging, and Rheological Properties of High-Density Polyethylene-Modified Asphalt Binder", *JOURNAL OF TESTING AND EVALUATION*, January 2022 Vol. 50, Num. 1, Page 1-14, January 2022,
- 10 Pouria Hajikarimi, Mehrdad Ehsani, Yassine El Haloui, Fateh Fakhari Tehrani, Joseph Absi, Fereidoon Moghadas Nejad, "Fractional viscoelastic modeling of modified asphalt mastics using response surface method", *CONSTRUCTION AND BUILDING MATERIALS*, December 2021 Vol. 317, Num. 0, Page 1-17, December 2021,
- 11 Mehrdad Ehsani, Fereidoon Moghadas Nejad, Pouria Hajikarimi, "Faulting Prediction Model in Jointed Plain Concrete Pavement and determining the parameters affecting this failure with Artificial Neural Networks", *Amirkabir Journal of Civil Engineering*, December 2021 Vol. 0, Num. 0, Page 1-28, December 2021,
- 12 , Fereidoon Moghadas Nejad, "Effect of mode mixity, temperature, binder content, and gradation on mixed mode (I/II) R-curve of asphalt concrete at low temperatures", *CONSTRUCTION AND BUILDING MATERIALS*, December 2021 Vol. 313, Num. 0, Page 1-16, December 2021,
- 13 , Mehrdad Ehsani, Fereidoon Moghadas Nejad, "Prediction of low-temperature fracture resistance curves of unmodified and crumb rubber modified hot mix asphalt mixtures using a machine learning approach", *CONSTRUCTION AND BUILDING MATERIALS*, November 2021 Vol. 314, Num. 0, Page 1-14, November 2021,
- 14 , Fereidoon Moghadas Nejad, "Crack propagation characterization of crumb rubber modified asphalt concrete using J-R curves", *THEORETICAL AND APPLIED FRACTURE MECHANICS*, November 2021 Vol. 117, Num. 0, Page 1-15, November 2021,
- 15 Mozghan Hajjali, Fereidoon Moghadas Nejad, "A new automatic image-based system for measuring of prime/tack coating", *INTERNATIONAL JOURNAL OF PAVEMENT ENGINEERING*, November 2021 Vol. 0, Num. 0, Page 1-18, November 2021,
- 16 Mohammadali Ziari, Pouria Hajikarimi, Afarin Kheirati Kazerooni, Fereidoon Moghadas Nejad, Elham H. Fini, "Effect of polyphosphoric acid on fracture properties of asphalt binder and asphalt mixtures", *CONSTRUCTION AND BUILDING MATERIALS*, October 2021 Vol. 310, Num. 0, Page 1-11, October 2021,
- 17 Hamed Naseri, Elahe Safari Ghale Koli, Sina Mohammadzade Saliani, Fereidoon Moghadas Nejad, Amir Golroo, "Carbon dioxide minimization in large-scale pavement network maintenance planning", *Amirkabir Journal of Civil Engineering*, October 2021 Vol. 53, Num. 8, Page 2-16, October 2021,
- 18 Mohammad Molayem, Mahmoud Ameri, Mohammad Reza Mohammad Aliha, Fereidoon Moghadas Nejad, "Prediction of load-CMOD curves for HMA mixtures at intermediate temperatures subjected to mixed mode loading", *ENGINEERING FRACTURE MECHANICS*, September 2021 Vol. 254, Num. 0, Page 1-18, September 2021,
- 19 Ehsan Ramezani Khansari, Masoud Tabibi, Fereidoon Moghadas Nejad, "Estimating Lane Change Duration for Overtaking in Non-lane-Based Driving Behavior by Local Linear Model Trees (LOLIMOT)", *MATHEMATICAL PROBLEMS IN ENGINEERING*, September 2021 Vol. 2021, Num. 0, Page 1-7, September 2021,
- 20 Pouria Hajikarimi, Saba Shariati, Mohammad Rahi, Ruhollah Kazemi, Fereidoon Moghadas Nejad, Elham H. Fini, "Enhancing the Economics and Environmental Sustainability of the Manufacturing Process for Air-Blown bitumen", *JOURNAL OF CLEANER PRODUCTION*, September 2021 Vol. -, Num. 0, Page 1-30, September 2021,

- 21 Ehsan Ramezani Khansari, Masoud Tabibi, Fereidoon Moghadas Nejad, Mahmoud Mesbah Namini, "Comparing the Effect of Age, Gender, and Desired Speed on Car-Following Behavior by Using Driving Simulator", *JOURNAL OF ADVANCED TRANSPORTATION*, August 2021 Vol. 2021, Num. 0, Page 1-7, August 2021,
- 22 Mehran Aziminezhad, Sahand Mardi, Abolfazl Rahmani Shourestani, Pouria Hajikarimi, Fereidoon Moghadas Nejad, "Energy-Based Method for Evaluating Cracks and Resistance of Fiber Reinforced Ultra-High Strength Concrete under Impact Loads", *AUT Journal of Civil Engineering*, July 2021 Vol. 4, Num. 3, Page 289-302, July 2021,
- 23 Mehdi Moazami Goodarzi, Koorosh Naderi, Fereidoon Moghadas Nejad, "Cracking Resistance of Hot-Mix Asphalt Mixtures Containing Terminal Blend Rubberized Asphalt Nanocomposite at Intermediate Temperature", *JOURNAL OF MATERIALS IN CIVIL ENGINEERING*, July 2021 Vol. 33, Num. 10, Page 1-22, July 2021,
- 24 Alireza Sadat Hosseini, Pouria Hajikarimi, Mostafa Gandomi, Fereidoon Moghadas Nejad, Amir H. Gandomi, "Optimized machine learning approaches for the prediction of viscoelastic behavior of modified asphalt binders", *CONSTRUCTION AND BUILDING MATERIALS*, July 2021 Vol. 299, Num. 0, Page 1-15, July 2021,
- 25 , Fereidoon Moghadas Nejad, "R-Curve Characterization of Crumb Rubber Modified Asphalt Mixtures Incorporating Warm Mix Additive at Low Temperatures", *Key Engineering Materials*, July 2021 Vol. 894, Num. 0, Page 109-114, July 2021,
- 26 , Fereidoon Moghadas Nejad, Ofelia Curbo, "Durability and Mechanical Properties of Self-Compacting Concrete Incorporating Recovered Filler from Hot Mix Asphalt Plants and Recycled Fine Aggregate", *Key Engineering Materials*, July 2021 Vol. 894, Num. 0, Page 95-101, July 2021,
- 27 Mojtaba Khodadadi, Alireza Azarhoosh, Fereidoon Moghadas Nejad, Ali Khodaii, "Investigation of the Moisture Susceptibility of Nanocomposite-Modified Asphalt Mixture Using Surface Free Energy Theory", *Amirkabir Journal of Civil Engineering*, June 2021 Vol. 5, Num. 2, Page 1-7, June 2021,
- 28 Alireza Azarhoosh, Mehdi Koozmishi, Fereidoon Moghadas Nejad, "Evaluation of fatigue cracking of hot-mix asphalts containing recycled concrete aggregates coated with waste plastic bottles using thermodynamic parameters", *JOURNAL OF ADHESION*, June 2021 Vol. 0, Num. 0, Page 1-21, June 2021,
- 29 Seyed Elyas Hashemian, Yousef Shafahi, Fereidoon Moghadas Nejad, "Life cycle cost analysis (LCCA) of railway tracks maintenance decisions using the Markov forecast model based on the data of a track recording machine", *Amirkabir Journal of Civil Engineering*, May 2021 Vol. 53, Num. 2, Page 665-684, May 2021,
- 30 Sadegh Ghavami, Hamed Naseri, Hamid Jahanbakhsh, Fereidoon Moghadas Nejad, "The impacts of nano-SiO₂ and silica fume on cement kiln dust treated soil as a sustainable cement-free stabilizer", *CONSTRUCTION AND BUILDING MATERIALS*, May 2021 Vol. 285, Num. 0, Page 1-15, May 2021,
- 31 Sajad Ranjbar, Fereidoon Moghadas Nejad,, "An image-based system for asphalt pavement bleeding inspection", *INTERNATIONAL JOURNAL OF PAVEMENT ENGINEERING*, May 2021 Vol. 0, Num. 0, Page 1-17, May 2021,
- 32 Alireza Sadat Hosseini, Pouria Hajikarimi, Mostafa Gandomi, Fereidoon Moghadas Nejad, Amir H. Gandomi, "Genetic programming to formulate viscoelastic behavior of modified asphalt binder", *CONSTRUCTION AND BUILDING MATERIALS*, March 2021 Vol. 286, Num. 0, Page 1-14, March 2021,
- 33 Aref Ebrahimi Besheli, Kianoosh Samimi, Fereidoon Moghadas Nejad, Ehsan Darvishan, "Improving concrete pavement performance in relation to combined effects of freeze–thaw cycles and de-icing salt", *CONSTRUCTION AND BUILDING MATERIALS*, March 2021 Vol. 277, Num. 0, Page 1-20, March 2021,
- 34 Behrouz Mataei, Fereidoon Moghadas Nejad,, "Pavement maintenance and rehabilitation optimization based on cloud decision tree", *International Journal of Pavement Research and Technology*, January 2021 Vol. 14, Num. 6, Page 740-750, January 2021,
- 35 Hamed Naseri, Mehrdad Ehsani, Amir Golroo, Fereidoon Moghadas Nejad, "Sustainable pavement maintenance and rehabilitation planning using differential evolutionary programming and coyote optimization algorithm", *INTERNATIONAL JOURNAL OF PAVEMENT ENGINEERING*, January 2021 Vol. 0, Num. 0, Page 1-18, January 2021,
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- 129 Fereidoon Moghadas Nejad, Sepehr Ghaffari, "Numerical Analysis of of Thermal and Composite Stresses in Pre-stressed Concrete Pavements ", Fourth International Conference on Concrete & Development, April 2013
- 130 Fereidoon Moghadas Nejad, Sepehr Ghaffari, "Finite Element Evaluation of Dowel Bars Behavior in Airfield Concrete Pavements ", Fourth International Conference on Concrete & Development, April 2013
- 131 Masoud Fathali, A. Azadbakhsh, Fereidoon Moghadas Nejad, "A comparison between wooden and concrete ties strength in order to increase the train speed ", Third International Conference on Recent Advances in Railway Engineering, April 2013
- 132 Fereidoon Moghadas Nejad, H. Moghadam Ali, Masoud Fathali, "Evaluation of parameters of track geometry considering derailment criteria ", Third International Conference on Recent Advances in Railway Engineering, April 2013
- 133 Fereidoon Moghadas Nejad, Sholeh Kazemifard, Mehdi Shahabi, "Polymer modified bitumens and their effect on fuel resistance of asphalt binders ", 2nd Conference on Sustainable Asphalt Pavements in the Middle East, February 2013
- 134 Shahabi, M., Sholeh Kazemifard, Fereidoon Moghadas Nejad, "Evaluation of physical and rheological properties for unaged and aged polymer modified bitumens ", National Conference on Transportation Infrastructure, February 2013
- 135 Kavousi , Fereidoon Moghadas Nejad, Ghorbani, "Comparison of methods to predict the temperature of the asphalt layer depth ", national conference of infrastructure transportation, February 2013
- 136 Hossein Sorkhabi, Fereidoon Moghadas Nejad, "Classification of factors affecting their ability to self healing asphalt mixtures ", national conference of infrastructure transportation, February 2013
- 137 Fereidoon Moghadas Nejad, Tolabi, Hamed Khani Sanich, "Administrative aspects of the installation of geosynthetic layers to control reflective cracks ", national conference of infrastructure transportation, February 2013
- 138 Fereidoon Moghadas Nejad, Gholamhossein Hamedi, Alireza Azarhoosh, "Developing a rovide moisture sensitivity index for HMA mixtures based on surface free energy theory ", national conference of infrastructure transportation, February 2013

- 139 Ali Khodaii, Fereidoon Moghadas Nejad, Nemat Soltani, "Modeling the Impact of Environmental and Traffic Factors on Accidents Severity in Rural Roads ", the 12 international conference of traffic and transportation engineering, February 2013
- 140 Ali Khodaii, Fereidoon Moghadas Nejad, Nemat Soltani, "Modeling the Impact of Various Factors on Accidents Rate in Rural Roads ", the 12 international conference of traffic and transportation engineering, February 2013
- 141 Alireza Azizi Germi, Fereidoon Moghadas Nejad, Arman Boloukian Roudsari, "Developing a probabilistic pavement performance model using econometric methods ", The 12 th International Conference On Traffic and Transportation, February 2013
- 142 Eghbal Shakeri, Fereidoon Moghadas Nejad, Asghar Keshavarzrad, "Investigate the Properties of Modified Asphalt Using Slag Aggregates ", National Conference Sustainable Development & Urban Construction, December 2012
- 143 Fereidoon Moghadas Nejad, Sholeh Kazemi Fard, Mehdi Shahabi, "The Effect of Aging on Physical and Rheological Properties of Polymer Modified Bitumens ", 10th international seminar on polymer science and technology, October 2012
- 144 Hamzeh Zakeri, Fereidoon Moghadas Nejad, Abolfazl Doostparast Torshizi, Mohammad Hossein Fazel Zarandi, Ahmad Fahimifar, "A NEW TYPE OF FUZZY MEMBERSHIP FUNCTIONS AND UNCERTAINLY GRADE IN THE FRAME OF POLAR SYSTEMS ", 8th International Symposium on Intelligent and Manufacturing Systems (IMS2012), September 2012
- 145 Abolfazl Doostparast Torshizi, Mohammad Hossein Fazel Zarandi, Hamzeh Zakeri, Fereidoon Moghadas Nejad, "A NEW OUTPUT PROCESSING METHOD FOR TYPE-2 FUZZY SYSTEMS ", 8th International Symposium on Intelligent and Manufacturing Systems (IMS2012), September 2012
- 146 -, Eghbal Shakeri, Fereidoon Moghadas Nejad, "Identifying and prioritizing critical success factors in the infrastructural projects ", 9th International Congress on Civil Engineering, May 2012
- 147 Fereidoon Moghadas Nejad, Ali Khodaii, Mohamad Amin Ganjehee, "Developing Design Charts and Equations for Pre-Stressed Concrete Airfield Pavements Under Boeing- 777 Wheel Loads ", 9th International Congress on Civil Engineering, May 2012
- 148 A. Azarhoosh, Gholamhossein Hamed, Fereidoon Moghadas Nejad, "Field Study of effective parameters of Red Light of Urban Junctions ", 3rd International Traffic Accident Conference, May 2012
- 149 Masoud Tabibi, Fereidoon Moghadas Nejad, Mohammad Mohseni, "Prediction of the travel time in Iran road network using neural networks ", the 11th international conference on traffic & transportation engineering, February 2012
- 150 -, Fereidoon Moghadas Nejad, "Descriptive Modeling of the number of casualties and Injuries in the urban roads of Iran Based on Effective Parameters ", the 11th international conference on traffic & transportation engineering, February 2012
- 151 Fereidoon Moghadas Nejad, -, Alireza Noory, "Using A Computer Simulator In Determining Pollution in an Urban Freeway ", The 5th National Conference & Exhibition on Environmental Engineering, November 2011
- 152 Fereidoon Moghadas Nejad, Alireza Noory, Mohammad Notash, Saeed Tolabi, "effect of filling cracks on geosynthetics efficiency for prevention of reflective crack in asphalt overlay ", The 7th International Conference on Road and Airfield Pavement Technology, August 2011
- 153 Ghasemi, Fereidoon Moghadas Nejad, Esmail Aflaki, "Numerical analysis of drainage and its effect on Pavements ", 6th National conference in civil engineering, April 2011
- 154 -, Fereidoon Moghadas Nejad, Ahmad Fahimifar, "A Numerical Study On Thermal Cracking In Flexible Pavements ", 6th National Congress On civil Engineering, April 2011
- 155 Pedram Aghajani, Fereidoon Moghadas Nejad, "Improving the Bitumen Properties by Means of Crumb Rubber Modifier ", 6th National Congress On civil Engineering, April 2011
- 156 Fereidoon Moghadas Nejad, Saeed Toolabi, Alireza Noory, "Effects of Geosynthetics Modulus on Increasing the Asphalt Overlay life time ", 5th Conference on asphalt and asphalt mixes, March 2011

- 157 Golestani, Delaviz, Fereidoon Moghadas Nejad, Nazar Beygi, "The Rheological Investigation of the Effect of SBS Polymer Admixture on the Asphalt Properties Regarding the Climate Conditions of Iran ", 5th Conference on asphalt and asphalt mixes, March 2011
- 158 Golestani, Delaviz, Fereidoon Moghadas Nejad, "Laboratory Investigation Over Improvement of the Properties of SBS Polymer Modified Asphalts by Dynamic Vulcanization ", 5th Conference on asphalt and asphalt mixes, March 2011
- 159 Delaviz, Golestani, Fereidoon Moghadas Nejad, Nazar Bygi, "The Effect of Vulcanizing Polymeric Asphalt on Improvement of Engineering Properties of Modified-Asphalt Mixes ", 5th Conference on asphalt and asphalt mixes, March 2011
- 160 Fereidoon Moghadas Nejad, Mirzahosseini, Kashani , Abedi, "The Effects of Bitumen Percentage and Percentage of Air Void on Rutting Potential of HMA by Using Of Dynamic Creep Test ", 10th Annual International Conference on 'Sustainable Construction Materials & Pavement Engineering, February 2011
- 161 Navid Reza Tayebi, Fereidoon Moghadas Nejad, Abolfazl Hassani, "Analysis of pavement management activities programming by particle swarm optimization ", International Conference On Advances In Electrical & Electronics 2010, December 2010
- 162 Fereidoon Moghadas Nejad, Seeyamak Baitabar, "Performance Evaluation of Carbon Fiber Modified Asphalt ", The 11th International Conference on Asphalt Pavements, August 2010
- 163 Mirzahosseini, -, Fereidoon Moghadas Nejad, Gandomi, Ameri, "Evaluation of Rutting Potential of Asphalt Mixtures Using Linear Genetic Programming ", The 11th International Conference on Asphalt Pavements, August 2010
- 164 Fereidoon Moghadas Nejad, Sepehr Ghaffari, "Rehabilitation of Flexible Pavements with Concrete Overlays: A Numerical Study ", 1st meeting and Technical Conference of the Middle East Society of Asphalt Technologists, July 2010
- 165 [en-name N/A], Ali Khodaii, Fereidoon Moghadas Nejad, "The effect of geogrid on reduction of reflection craking in asphalt overlay ", 9th International conference on Geosynthetics Guaruja, Brazil, May 2010
- 166 Fereidoon Moghadas Nejad, Milad Saghebfar, "A Study On Wheel-Rail Contact Condition in Different Positions Of Wheel On Rail ", 11th Conference on Rail Transportation, October 2009
- 167 Masoud Fathali, Fereidoon Moghadas Nejad, Bahrami, A, Ahadi, H, "Development of Optimum Assessment Technique for Railway Infrastructure Clearances ", 2nd International Conference on the Latest Progresses in Railway Engineering, September 2009
- 168 Fereidoon Moghadas Nejad, Mirmohammadsadeghi, J, Milad Saghebfar, "Sensitivity Analysis on Stress Distribution of Ballasted Railway Tracks incorporating Rail Pad Properties ", 2nd International Conference on the Latest Progresses in Railway Engineering, September 2009
- 169 Fereidoon Moghadas Nejad, Mojtaba Ale Mohammadi, Soltsn A.A, "Determination of Optimum Gradation for SMA Overlays ", 8th International Civil Engineering Congress, May 2009
- 170 Hamzeh Zakeri, Fereidoon Moghadas Nejad, Faramarz Moodi, "Intelligent Evaluation of Asphalt Pavement, Airport and Parking lots ", 8th International Congress of Civil Engineering, May 2009
- 171 Fereidoon Moghadas Nejad, Hamzeh Zakeri, Faramarz Moodi, "Developing a Dynamic Method Based on Matrix of Pavement Preventive Maintenance and New Index to Evaluating the Pavement conditions ", 8th International Congress of Civil Engineering, May 2009
- 172 Fereidoon Moghadas Nejad, Hamzeh Zakeri, Faramarz Moodi, "Developing a New Intelligent Tools for Pavement Management System of parking lots ", International Conference on New Achievement in Building Industry, November 2008
- 173 Fereidoon Moghadas Nejad, Hamzeh Zakeri, Faramarz Moodi, "Comparison of the Asphalt Pavement Cracking Deterioration Prediction Models for use in Pavement Management System PMS ", 4th Congress on Asphalt and Bitumen, October 2008
- 174 Hamzeh Zakeri, Fereidoon Moghadas Nejad, Faramarz Moodi, "Artificial intelligence methods and its Application in Airport, Road and Parking Pavement Management System and providing an Optimum Method to Use in Pavement Management System Components for Iran ", 2nd Joint Congress on Fuzzy and Intelligent Systems, October 2008

- 175 Fereidoon Moghadas Nejad, Sepehr Ghaffari, "Numerical Analysis of Concrete Overlays of Flexible Pavement ", International Conference on Concrete Pavements, August 2008
- 176 Fereidoon Moghadas Nejad, -, -, "A Study On Guader Port in the Region as a Strategic Competitor of Chahbahar Port ", International Conference On Chahbahar, Transit & Eastern Corridor Development Of Iran, May 2008
- 177 Fereidoon Moghadas Nejad, [en-name N/A], "Soil Stabilization With Cement Kiln Dust ", 4th National Congress on Civil Engineering, April 2008
- 178 Fereidoon Moghadas Nejad, [en-name N/A], [en-name N/A], "Predicting the volumetric percentage of aggregates in asphalt concrete mixtures using electrical resistance ", 4th National Congress on Civil Engineering, April 2008
- 179 Fereidoon Moghadas Nejad, "Maintenance of Ballasted Railway Tracks and Predicting its Failures ", 9th International Conference on Rail Transportation, November 2007
- 180 Fereidoon Moghadas Nejad, Roohi, "the Analysis of Ladder Sleeper Behavior ", International Conference on Advanced Characterisation of Pavement and Soil Engineering Materials, June 2007
- 181 Fereidoon Moghadas Nejad, Saeid Tolabi, "Iranian Experiences in In-Place Cold Recycling ", 3th National Congress on Civil Engineering, May 2007
- 182 Fereidoon Moghadas Nejad, Saeid Tolabi, "Encounter of Pavement Surface and Vehicle Characteristics in Control of Hydroplaning Phenomena ", 3rd Conference on Asphalt and Asphalt Mixes, November 2006
- 183 Fereidoon Moghadas Nejad, Saeid Tolabi, "Overview of field Study of Geosynthetics Installation in Asphalt Overlay ", 3rd Conference on Asphalt and Asphalt Mixes, November 2006
- 184 Fereidoon Moghadas Nejad, "A Study on Behavior of Block Pavement Using 3D Finite Element Method ", 8th International Conference on Concrete Block Paving, September 2006
- 185 Fereidoon Moghadas Nejad, "A finite element study on optimum location of geogrid layer installation in asphalt overlay ", 8th International Conference on Geosynthetics, July 2006
- 186 Fereidoon Moghadas Nejad, "Comparing the Effects of Hydrophobic Cement on the CBR and Swelling Potential of Caspian Sea Coastal Soils with Type 2 Cement and Hydrated Lime ", 7th International Congress on Civil Engineering, May 2006
- 187 Fereidoon Moghadas Nejad, Amir Modarres, "Stabilization of Caspian Sea Coastal Soils With Hydrophobic Cement in Comparison with Type 2 Cement and Lime ", 7th International Congress on Civil Engineering, May 2006
- 188 Fereidoon Moghadas Nejad, "Finint element study of critical cracking condition in asphaltic overlay ", 10th International Conference on Asphalt Pavements, May 2006
- 189 Fereidoon Moghadas Nejad, "A Study on Capability of Geosynthetic for reinforcement of Reflection Cracking ", International Conference on Construction Material, ConMat'05, August 2005
- 190 Fereidoon Moghadas Nejad, [en-name N/A], "Optimization of Geogrid Installation location in Asphalt Overlay to Reflective Cracking control ", 2th National Congress on Civil Engineering, May 2005
- 191 Fereidoon Moghadas Nejad, [en-name N/A], "Three dimensional analysis of block pavement behavior using the finite element method ", 2nd International Conference on Concrete and Development, April 2005
- 192 Fereidoon Moghadas Nejad, Hooman Rastegari, "Numerical Analysis of Concrete pavements under aircraft wheel loads ", 2nd International Conference on Concrete and Development, April 2005
- 193 Fereidoon Moghadas Nejad, Ali Roudaki, "Finite Element Analysis of Flexible Pavement using ANSYS software ", 2nd Iranian Summit on Bitumin and Asphalt., March 2005
- 194 Fereidoon Moghadas Nejad, Ali Roudaki, "A comparison Between Linear and Non-Linear Analysis of Asphalt Concrete Pavements Using Finite Element Method ", 6th Conference on Traffic and Transportation Engineering, March 2005
- 195 Fereidoon Moghadas Nejad, "Finite Element Analysis of Concrete Block Paving ", 7th International Conference on Concrete Block Paving, March 2005







- 196 Fereidoon Moghadas Nejad, "Prediction of Bulk Specific Weight of asphalt mixtures using electrical resistance ", 2rd Conference on Asphalt and Asphalt Mixes, November 2004
- 197 Fereidoon Moghadas Nejad, "Using Infinite Element in Modeling the Asphaltic Concrete Pavement Behavior ", 2rd Conference on Asphalt and Asphalt Mixes, November 2004
- 198 Fereidoon Moghadas Nejad, Saeid Tolabi, "Numerical Analysis of Critical Cracking Conditions in Asphalt Overlays ", 2nd Conference on Asphalt and Asphalt Mixes, November 2004
- 199 Fereidoon Moghadas Nejad, "Interaction Between Frictional Soils and Geogrid Reinforcement ", The International Conference on Geosynthetics and Geoenvironmental Engineering, June 2004
- 200 Fereidoon Moghadas Nejad, "Finite Element Analysis of Concrete Block paving ", 7th International Conference on Concrete Block paving, October 2003
- 201 Fereidoon Moghadas Nejad, "Evaluation of Resilient Moduli Determination Models for Pavements Materials and Subgrade Soil ", 6th International Conference on Civil Engineering, May 2003
- 202 Fereidoon Moghadas Nejad, Vahid Nejad Seifi, "An Overview on Lateral Stability of Continious Welded Rails ", 7th International Conference on Rail Transportation, April 2003
- 203 Fereidoon Moghadas Nejad, Vahid Nejad Seifi, "Determination of Ballast properties for using in Numerical Modelling ", 7th International Conference on Rail Transportation, April 2003
- 204 Fereidoon Moghadas Nejad, Hamidreza Atife, "Evaluation of Resilient Moduli Determination Models for Pavements Materials and Subgrade Soil ", 6th International Conference on Civil Engineering, March 2003
- 205 Fereidoon Moghadas Nejad, "A stusy on pullout behavior of geogrid ", 7th International Conference on Geosynthetics, September 2002
- 206 Fereidoon Moghadas Nejad, Seyedarash Forough, "An Overview of Geotextile Reinforced Unpaved Road Design methods ", 1st Ground Improvement Conference, March 2002
- 207 Fereidoon Moghadas Nejad, "A Study on Reinforced Pavements Behaviour ", , March 2002
- 208 Fereidoon Moghadas Nejad, "Non Linear Finite Element Analysis of Reinforced pavements ", 4th International Conference on Road & Airfield Pavement Technology, January 2002
- 209 Fereidoon Moghadas Nejad, "Experiencia en reciclado in situ en frio en iran cold in situ recycling experience iran ", , October 2001
- 210 Fereidoon Moghadas Nejad, "cold in situ recycling experience in IRAN ", 1st International Symposium on Subgrade Stabilisation and In Situ Pavement Recycling using Cement, October 2001
- 211 Fereidoon Moghadas Nejad, "Geogrid reinforcement of pavements ", The 7th Australia-New Zealand Conference on Geomechanics, July 1996

Awards & Honors

#	title	Date
1	Distinguished Researcher in Transportation Award" Awarding Institution: Iran Railway Engineering Association & Iran Railway Organization	2011
2	"DADMAN Distinguished Researcher Award" Awarding Institution: Collaboration of Iranian Science and Culture Hall of Fame and Ministry of Roads an	2017
3	Recognized as the Top Figure in Bitumen and Asphalt Industry in Iran 9, Awarding Institution: Iran Road, Housing & Urban Development Research Ce	2019
4	Citation of Recognition by the Minister of Road and Urban Development for Effective Service to Iran Highway Network Maintenance	2019

5	Amirkabir University of Technology Distinguished Professor in research	2020
6	Distinguished Professor (National level)	2021
7	2021 Highly Cited Researcher (Web of Science, Clarivate Analytics, Top 1% Researchers most cited)	2021

Taught Courses

#	Course title	Description	Headlines	Date
1	Road Pavement Design	The purpose of the course is to provide guidance for: pavement materials, analysis and design of pavements , pavement mix design, pavement drainage, soil stabilization, geotechnical aspects of pavements, ,		Spring 2022
2	Road Maintenance Management	To make the students familiar with the principals of road management systems		Spring 2022
3	Pavement Technology & Materials	To make students familiar with materials behavior, mix design,producing, construction , addetives and specific mictures		Fall 2021
4	Road Pavement Design	The purpose of the course is to provide guidance for: pavement materials, analysis and design of pavements , pavement mix design, pavement drainage, soil stabilization, geotechnical aspects of pavements, ,		Fall 2021
5	Road Pavement Design	The purpose of the course is to provide guidance for: pavement materials, analysis and design of pavements , pavement mix design, pavement drainage, soil stabilization, geotechnical aspects of pavements, ,		Spring 2021
6	Road Maintenance Management	To make the students familiar with the principals of road management systems		Spring 2021

Inventions/Patents

#	Invention title	Reg. number	Country	contributors	Reg. date	Exp. date
1	Automatic Device for Detection and Evaluation of the Asphalt Pavement Bleeding (Flushing)	99950			2019/12/1	2038/01/19
2	A New Cylindrical Specimen Mold for Geotechnical Tests	99516			2019/10/1	2038/01/19
3	PAVEMENT DRAINAGE EVALUATION SYSTEM	US 10,197,486 B2			2019/02/1	-
4	Aggregate Materials Density Measuring Apparatus using Voice Processing	86066			2015/06/1	2034/09/1
5	Dynamic Shear Bonding measuring Apparatus for Geosynthetic Reinforced Pavement Layers	84418			2014/11/1	2034/06/1
6	Automatic Rail Defect Detection System	82875			2014/05/1	2034/01/1

7	Railway Image Data Collector Apparatus	82880	2014/05/1	2034/01/1
8	Automated Soil Grading Device	81679	2014/01/1	2033/07/1
9	The Pavement Skid Resistance Measurement System	77813	2012/09/1	2032/09/1
10	Process of Determining Crack Length in Concrete and Asphaltic Beams Using Measurement of Conductivity of Thin Graphite Cover	70293	2011/06/1	2031/05/1
11	Formulation of Plans to Build Fuel Resistant Asphalts	68714	2011/02/1	2031/02/1
12	Optimization of curing process of P.M.B	68711	2011/02/1	2031/02/1
13	Process of producing stable crack sealer capable of increasing the pavement life with no need to reconstruction	68333	2011/01/1	2030/12/1
14	Designing and Manufacturing of a Intelligent Speaking Road, Runway & Parking Pavement Distress Detector (AICPD)	38704771	2008/07/1	2028/07/1
15	Designing and Manufacturing of an Asphalt Cracking Simulation System	50217	2008/07/1	2028/07/1
16	Designing and Manufacturing of Dynamic Pavement Cracking Distress Detector.	50220	2008/07/1	-
17	Designing a Smart Digital Laboratory and Field Sieving System (AIGAJETSIEVE)	50218	2008/07/1	-
18	Designing and Manufacturing Imaging Based Detector for Maintenance and Rehabilitation of Asphalt Pavement.	50508	2008/07/1	2028/07/1
19	Designing and Manufacturing of a Smart Instrument for Cost Estimation of Maintenance and Rehabilitation of Asphalt Pavement	50501	2008/07/1	2028/07/1
20	Advanced Automated System for Prediction of Road, Runway Parking Pavement Distress&	50503	2008/07/1	2028/07/1
21	Smart Helmet for Pavement Evaluation. (IHATPAVEA)	50502	2008/07/1	2028/07/1
22	Designing a Digital Gradation Tool	38704327	2008/06/1	2028/06/1
23	Design and Manufacturing an Automated System to Identify Pavement Distresses for Roads, Airports and Parking Lots	38704325	2008/06/1	2028/06/1