



Fereidoon Moghaddas Nejad

Professor

Department of Civil and Environmental Engineering
Geotechnical and Transportation Engineering

Profile

Professor of Civil Engineering and Head of Transportation Group, Department of Civil and Environmental Engineering, Amirkabir University of Technology. 1998-Now.

Contact



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EDUCATION

PhD in Civil Engineering (Pavement), The University of Sydney, 1997
MSc in Civil Engineering (Highway), Iran University of Science & Technology, 1990
BSc in Civil Engineering, Sistan & Baluchestan University, 1985

ACADEMIC EXPERIENCE

- » Professor of Civil Engineering and Head of Transportation Group, Department of Civil and Environmental Engineering, Amirkabir University of Technology. 1998-Now.
Duties: Teaching and research in the field of pavement engineering, pavement management system, railway engineering at undergraduate and graduate levels.
- » Director, Pavement Engineering Lab., Amirkabir University of Technology. 1998-Now.
Duties: 17 years' experience in Bitumen and Modified Bitumen Testings, Mix design, Monotonic and Cyclic Indirect Tensile Tests, Monotonic and Cyclic Creep Tests of Asphalt Mixtures.
- » Post-Doctoral Fellow in Numerical Modeling of Geosynthetics Reinforced Pavements, School of Civil Engineering, The University of Western Sydney, 1997-1998.
Duties: Developed Design method for Geosynthetic reinforced pavements.

COURSES TAUGHT

- Pavement Engineering (Undergraduate Level),
- Railway Engineering (Undergraduate Level),
- Advanced Pavement Engineering (Postgraduate Level),
- Pavement System Management (Postgraduate Level),
- Advanced Railway Engineering (Postgraduate Level),
- Advanced Pavement Materials (Postgraduate Level), 1998 to 2013

RESEARCH INTERESTS

- Energy harvesting from pavement
- Numerical Methods in Pavement and Railway Engineering
- Constitutive Models for Pavements (Elastic, Elastoplastic and Viscoelastic Behavior)
- Computational Models for Asphalt and Concrete Pavements (Thermal modeling), Modeling of Structural Behavior
- Railway Management Systems, Pavement Rehabilitation and Maintenance
- Pavement Management Systems, Pavement Rehabilitation and Maintenance
- Nondestructive Testing (i.e. FWD, GPR);
- Soil Reinforcement;
- Pavement Recycling; and
- Pavement Materials Testing

AWARDS

- "DADMAN Distinguished Researcher Award", Awarding Institution: **Collaboration of Iranian Science and Culture Hall of Fame and Ministry of Roads and Urban Planning-2017**
- Distinguished Researcher in Transportation Award"
Awarding Institution: **National Railway Organization- 2011**
- Recognized as the Top Figure in Bitumen and Asphalt Industry in Iran, Awarding Institution: **Iran Road, Housing & Urban Development Research Center- 2019**
- Citation of Recognition by the **Minister of Road and Urban Development for Effective Service to Iran Highway Network Maintenance - 2019**



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<https://scholar.google.com/citations?user=IS376t0AAAAJ&hl=en>



<https://www.scopus.com/authid/detail.uri?authorId=35272687900>

Citations (Scopus): 2045



https://www.researchgate.net/profile/Fereidoon_Moghadas_Nejad

PROFESSIONAL EXPERIENCE

- » Member of several technical committees and subcommittees on pavement engineering in 'Iran Ministry of Road and Transportation', 1998-2010.
Duties: final approval of design; quality assurance; quality control and test standards.
- » Advisor of the Manager of Iran Road Maintenance & Transportation Origination on Road Pavement Rehabilitation Projects, 2008-2010.
- » Research Deputy at Transportation Research Institute of Iran Ministry of Road and Transportation, 2007-2008.
Duties: management of numerous research projects in transportation engineering for Iran Ministry of Road and Transportation.
- » Chief Executive Officer of Tarahan Teradod Tehran (TTT) Consulting Engineers, Tehran, Iran 2001-2006.
Duties: Team leader of numerous pavement highway projects (new pavement and overlay).
- » Project Engineer in Khorasan Housing Investment Company, 1990.
- » Project Engineer in Imen Tarh consulting engineers, 1987.
- » Pavement Engineer in Faradid consulting engineers, 1986.
Duties: Designing Pavements for Iranian highway construction projects
- » "Evaluating the behavior of the gap filler at the stations located in the curve, construction and monitoring the pilot sample", sponsored by Tabriz Urban Railway Organization (TURO), 2014.
In this research, a practical solution for principal problems of metro stations located in the curve is presented. The main issue is about safety of passengers, because of existing gap between curved platform and straight edge of the wagon. Therefore, it is possible that the legs of the passengers fall down inside the cavity during the pedestrian and boarding. With construction and installation of proposed gap fillers, the safety will be achieved while there is no concern for safety of train to move.
- » "Evaluation of the recycled rubber crumb as a vibration absorption layer on in-city railways", sponsored by Tabriz Urban Railway Organization (TURO), 2014.
One of the principal problems in operation of metro systems is the vibration propagation of train movements. For this issue, there are different classes of solutions, the basic one, is elastic ant vibration mats. In this research, the use of recycled rubber crumbs for anticipating the level of transformed vibrations is evaluated both experimentally and numerically. Finally, the optimized class of ant vibration mats is executed in a pilot sample and instrumentation for field measurement of the data is done

EXTERNALLY FUNDED RESEARCH (PROJECT LEADER)

- » "Maintenance and Rehabilitation of Mashhad City Pavements" Sponsored by Mashhad Municipality, 2013.
In this project a pavement management system was developed for the Municipality of Mashhad Using the results of this project, engineers were able to plan the maintenance strategy of pavements.
- » "Maintenance and Rehabilitation of Qazvin City Pavements" Sponsored by Qazvin Municipality, 2007.
- » "Development of Pavement Management System Framework for the Iran Highway Networks" Sponsored by Iranian Transportation Research Institute, 2004.
The national framework of pavement management systems of Iran was the result of this project. The project outcome included: single year programming, multi-year programming, data collection protocols.
- » "Evaluation of Using Geosynthetics Effects on Pavement in order to Reduce the Overlay Thickness and Preventing Crack Initiation" Sponsored by Iran Transportation Research Institute, 2003.
Using fracture mechanics theory and finite element analysis, effects of crack width, elastic modulus of overlay, existing pavement and subgrade were taken into account. effect of geosynthetic on retarding crack propagation into overlay was analyzed.
- » "Concrete Block Paving Design and Construction in Road, Ports and Airport Pavements Guidelines" Sponsored by Iran Transportation Research Institute, 2000.
Based on finite element analysis results and available failure model, a comprehensive series of design charts were developed for highway, airport and industrial pavements considering; subgrade and pavement layers properties as well as tire pressure and number of repetitive loads.
- » "Slab Track Railway Design and Construction Codes" Sponsored by Iran Railway Research Center, 1999.
In this project based on numerical analysis, a comprehensive series of design charts were developed. Using these charts, the designer is able to determine the thickness of a slab under various rail load repetitions and subgrade bearing capacity.

MEMBERSHIP IN SOCIETIES

- ✓ Member, Board of Directors of Iran Pavement Engineering Society
- ✓ Member, Board of Trustees of Iran Civil Engineering Congresses
- ✓ Member, Iran Geotechnical Engineering Society
- ✓ Member, Iran Rail Transportation Engineers Society
- ✓ Member, International Society of Geotechnical Engineering and Soil Mechanics
- ✓ President, Board of Directors, Iran Geosynthetic Society

MEMBER AND REVIEWER IN SCIENTIFIC JOURNALS AND CONFERENCES JURIES

- Construction and Building Materials
- Road Material and Pavement design
- Journal of Transportation Engineering, ASCE
- International Journal of Pavement Engineering
- Amirkabir Scientific Journal
- International Journal of Civil Engineering (Iran University of Science and Technology)
- Scientific journal of Shiraz University
- Scientific journal of Mashhad University
- Modares Scientific and Engineering Journal
- Scientific Journal of Engineering (Tehran University)
- International Journal of Science and Engineering (Iran Ministry of Science and Technology)
- Transportation Scientific Journal (Iran Transportation Research Institute)
- Iranica Scientia Scientific journal (Sharif University of Technology)
- Iran Traffic and Transportation Engineering Conference
- Iran Geotechnical International conference
- Iran Rail Transportation Conferences
- Iran Civil Engineering International & National Congress
- Geosynthetics International Conference
- Iran Project Management International Conference

CONSULTING EXPERIENCE

-Consultant on numerous occasions on pavement engineering for the Iran Ministry of Road and Transportation, 1998-Now.

-Governmental chief supervisor of the following projects:

- Tehran-Mashhad highway rehabilitation project
- Bushehr-Salafchegan highway rehabilitation project
- Tehran-Khuzestan highway rehabilitation project
- Tehran-Bandarsabbas highway rehabilitation project
- Tehran-Bazargan highway rehabilitation project
- Tehran-Khosravi highway rehabilitation project

SHORT COURSES UNDERTAKEN

- Value Engineering Course (Module 1) conducted by Value Management International, Tehran, Iran, 2002.
- Postgraduate Leadership Course: course in engineering leadership with the Australian Centre for Innovation and International Competitiveness (The University of Sydney), 1996.
- Limit State Design in Geotechnical Engineering (The University of Sydney), 1996.
- Performance Prediction and Specifications for Bituminous Pavement Through SHRP (The University of New South Wales), 1994.
- Ground Modification Seminar No. 3: Geosynthetics in Road Engineering (University of Technology, Sydney), 1994.

BOOK CHAPTERS

1-Fazel Zarandi, M.H., Moghadas Nejad, F., Zakeri, H., "A Type-2 Fuzzy Model Based on Three-Dimensional Membership Functions for Smart Thresholding in Control Systems", Book Chapter. To appear in Fuzzy Controllers- Recent Advances in Theory and Applications. Edited by, Sohail Iqbal, Nora Boumella and Juan Carlos Figueroa Garcia, 2012 ISBN: 978-953-51-0759-0

2. Moghadas Nejad, F., Zakeri, H., "The Hybrid Method and its Application to Smart Pavement Management" Book Chapter. To appear in Metaheuristics in Water, Geotechnical and Transport Engineering. Edited by Xin-She Yang, Amir Hossein Alavi, Elsevier Inc., 2013, Pages 439-484, ISBN: 978-0-12-398296-4

3. Moghadas Nejad, F., Zakeri, H., Allahyari Nik, "A hybrid Metaheuristic Application in Asphalt Pavement Management System, to appear in "Metaheuristics and optimization in civil engineering", Springer

4. Mataee, B., Moghadas Nejad, F., Zakeri, H., Gandomi, Amir, H., "Computational Intelligence for Modelling of Pavement Surface Characteristics", To appear in "New Materials in Civil Engineering", Elsevier

5. Mataee, B., Moghadas Nejad, F., Zakeri, H., Gandomi, Amir, H., "Computational Intelligence for Modelling of Asphalt Pavement Surface Distress", To appear in "New Materials in Civil Engineering", Elsevier

BOOKS

1. *Automation and Computational Intelligence for Road Maintenance and Management: Advances and Applications*, Wiley Data and Cybersecurity (2022), Hamzeh Zakeri, Fereidoon Moghadas Nejad, Amir H Gandomi
2. *Applications of Viscoelasticity: Bituminous Materials Characterization and Modeling*, Elsevier (2021), Pouria Hajikarimi, Fereidoon Moghadas Nejad, (Netherlands)
3. *Iran Pavement Management System Framework Guideline* (2008), Moghadas Nejad, F., Transportation Research Center Publications (In Persian)
4. *Application of Geosynthetics in Asphalt Overlays to Control Reflective Cracking* (2007), Moghadas Nejad, F., Transportation Research Center Publications
5. *Railway Engineering* (2006), Arabani, M., Moghadas Nejad, F., Gilan University Publications (In Persian)
6. *Design and Construction of Full Depth Track Systems* (2004), Moghadas Nejad, F., Transportation Research Center Publications (In Persian)



INVENTIONS/PATENTS

- ⌘ PAVEMENT DRAINAGE EVALUATION SYSTEM US 10,197,486 B2 ... 2019/02/1
- ⌘ A New Cylindrical Specimen Mold for Geotechnical Tests ... 99516 ... 2019/10/1
- ⌘ Automatic Device for Detection and Evaluation of the Asphalt Pavement Bleeding (Flushing) ... 99950 ... 2019/12/1
- ⌘ Automated Soil Grading Device ... 81679... 2014/01/1
- ⌘ Automatic Rail Defect Detection System ... 82875 ... 2014/05/1
- ⌘ Railway Image Data Collector Apparatus ... 82880 ... 2014/05/1
- ⌘ Dynamic Shear Bonding measuring Apparatus for Geosynthetic Reinforced Pavement Layers ...84418....2014/11/1
- ⌘ The Pavement Skid Resistance Measurement System ... 77813 ... 2012/09/1
- ⌘ Process of Determining Crack Length in Concrete and Asphaltic Beams Using Measurement of Conductivity of Thin Graphite Cover ... 70293 ... 2011/06/1
- ⌘ Formulation of Plans to Build Fuel Resistant Asphalts ... 68714 ... 2011/02/1
- ⌘ Optimization of curing process of P.M.B 68711 ...2011/02/1
- ⌘ Process of producing stable crack sealer capable of increasing the pavement life with no need to reconstruction ...68333 ... 2011/01/1
- ⌘ Smart Helmet for Pavement Evaluation. (IHATPAVEA) ... 50502 ... 2008/07/1
- ⌘ Designing and Manufacturing of a Smart Instrument for Cost Estimation of Maintenance and Rehabilitation of Asphalt Pavement... 50501 ... 2008/07/1
- ⌘ Designing a Smart Digital Laboratory and Field Sieving System (AIGAJETSIEVE) ... 50218... 2008/07/1
- ⌘ Advanced Automated System for Prediction of Road, Runway Parking Pavement Distress& ...50503 ... 2008/07/1
- ⌘ Designing and Manufacturing Imaging Based Detector for Maintenance and Rehabilitation of Asphalt Pavement... 50508 ... 2008/07
- ⌘ Designing and Manufacturing of an Asphalt Cracking Simulation System ...50217... 2008/07/1
- ⌘ Designing and Manufacturing of Dynamic Pavement Cracking Distress Detector ... 50220 ... 2008/07/1
- ⌘ Designing and Manufacturing of an Intelligent Speaking Road, Runway & Parking Pavement Distress Detector (AICPD)... 38704771 ... 2008/07/1
- ⌘ Designing a Digital Gradation Tool ...38704327 ... 2008/06/1
- ⌘ Design and Manufacturing an Automated System to Identify Pavement Distresses for Roads, Airports and Parking Lots... 38704325 ... 2008/06/1

PUBLICATIONS

International Journal Papers

1. Dornasadat Sheikholeslami, , Fereidoon Moghadas Nejad, "Investigation of laboratory and Field methods of measuring energy caused by traffic noise pollution", 2023 Vol. 55, Num. 8, Page 1-32,
2. Mehrdad Ehsani, Pouria Hajikarimi, Masoud Esfandiari, Mohammad Rahi, Behzad Rasouli, Yousef Yousefi, Fereidoon Moghadas Nejad, "Developing Deterministic and Probabilistic Prediction Models to Evaluate High-Temperature Performance of Modified Bitumens", CONSTRUCTION AND BUILDING MATERIALS, 2023 Vol. 401, Num. 0, Page 1-28,
3. Alireza Mahpour, Mojtaba Khodadadi, Fereidoon Moghadas Nejad, "Investigation the Moisture Susceptibility of Warm-mix Asphalt Modified with Nano-TiO₂ and Waste Rubber Granules", 2023 Vol. 20, Num. 3, Page 55-70,
4. Peyman Mirzababaei, Pouria Hajikarimi, Fereidoon Moghadas Nejad, "Investigation of the effect of deicers on viscoelastic properties of asphalt mastics", Amirkabir Journal of Civil Engineering, 2023 Vol. 0, Num. 0, Page 1-24,
5. Mohammadmehdi Dadaei, Fereidoon Moghadas Nejad, Pouria Hajikarimi, "Investigation of the effect of global warming on the bitumen performance grading of Iran", 2023 Vol. 9, Num. 2, Page 10-20,
6. Mostafa Iraniparast, Sajad Ranjbar, Mohammad Rahai, Fereidoon Moghadas Nejad, "Surface concrete cracks detection and segmentation using transfer learning and multi-resolution image processing", Structures, 2023 Vol. 54, Num. 0, Page 386-398,
7. Pouria Hajikarimi, Mehrdad Ehsani, Fereidoon Moghadas Nejad, Amir H. Gandomi, "Formulation of Constitutive Viscoelastic Properties of Modified Bitumen Mastic using Genetic Programming", JOURNAL OF ENGINEERING MECHANICS, 2023 Vol. 149, Num. 11, Page 1-14,
8. Armin Tofighi, , Fereidoon Moghadas Nejad, "Urban Heat Island Destructive Phenomenon and Its Reduction with the Approach of Road Pavement Evaluation", 2023 Vol. -, Num. 0, Page 1-24,
9. Sepehr Ghafari, Fereidoon Moghadas Nejad, Hadi Kazemi, "Developing a Single-Specimen Technique for Low-Temperature R-Curve Determination of Asphalt Concrete Using a Modified Unloading Compliance Method", Key Engineering Materials, 2023 Vol. 951, Num. 0, Page 141-146,
10. Seyed Elyas Hashemian, Fereidoon Moghadas Nejad, Morteza Esmaeili, "Laboratory and numerical investigation on the behavior of reclaimed asphalt pavement (RAP) as railway track subballast layer", CONSTRUCTION AND BUILDING MATERIALS, 2023 Vol. 384, Num. 0, Page 1-13,
11. Peyman Mirzababaei, Fereidoon Moghadas Nejad, Pouria Hajikarimi, "Accelerated laboratory evaluation of the effect of deicing condition on fracture characteristics of Silane-based modified asphalt mixtures", THEORETICAL AND APPLIED FRACTURE MECHANICS, 2023 Vol. 125, Num. 0, Page 1-14,
12. Masoud Fathali, Mohamad Mohsen Kabiri, Fereidoon Moghadas Nejad, "Evaluation of the Optimal Geometry of the Hump Slab in Desert Railways with the Solid-Gas Two-Phase Simulation Approach", jaddeh, 2023 Vol. 22, Num. 115, Page 1-14,
13. Amirhossein Fani, Amir Golroo, Mohammad Sadegh Fahmani Arshad, Hamed Naseri, Fereidoon Moghadas Nejad, "Analysis of the pavement deterioration uncertainty scenarios on pavement maintenance and rehabilitation planning optimization", STRUCTURE AND INFRASTRUCTURE ENGINEERING, 2023 Vol. 0, Num. 0, Page 1-19,
14. Ali Farzaneh Movahed, Alireza Naseri, Alireza Aliakbari, Fereidoon Moghadas Nejad, "Investigation of the impacts of weather conditions on the average vehicle speed", 2023 Vol. 20, Num. 2, Page 103-114,
15. Seyed Ali Ziaee, Fereidoon Moghadas Nejad, Mohammad Dareyni, Mansour Fakhri, "Evaluation of rheological and mechanical properties of hot and warm mix asphalt mixtures containing Electric Arc Furnace Slag using gyratory compactor", CONSTRUCTION AND BUILDING MATERIALS, 2023 Vol. 378, Num. 0, Page 1-12,
16. Sajad Ranjbar, Fereidoon Moghadas Nejad,, "Automatic Segmentation of Bleeding Regions in Asphalt Pavement Using Multiresolution Analysis of the Image", 2023 Vol. 20, Num. 1, Page 227-240,

17. Mahdi Moazami Goodarzi¹, Hossein Nazari, Koorosh Naderi, Fereidoon Moghadas Nejad, Eshagh Babaii Ashourabadi, "Characterization of chloroprene rubber-modified asphalt binders", *JOURNAL OF ELASTOMERS AND PLASTICS*, 2023 Vol. 0, Num. 0, Page 1-26,
18. Mohammadali Ziari, Fereidoon Moghadas Nejad, Mohammad Reza Mohammad Aliha, Pouria Hajikarimi, "Low-Temperature Fracture Characteristics of Reclaimed Asphalt Pavement Modified with crumb rubber and rejuvenator", 2023 Vol. 8, Num. 4, Page 1-10,,
19. Yassine El Haloui, Reza Sepaspour, Pouria Hajikarimi, Fereidoon Moghadas Nejad, Fateh Fakhari Tehrani, Joseph Absi, "Adoption of Asphalt Binder Performance Grades for Morocco Considering Climate Change", *INTERNATIONAL JOURNAL OF CIVIL ENGINEERING*, 2023 Vol. 0, Num. 0, Page 1-15,
20. Alireza Sadat Hosseini, Pouria Hajikarimi, Sina Fallah Hosseini, Alireza Aliakbari, Fereidoon Moghadas Nejad, "Semi-circular bending setup for predicting fracture characteristics of high-strength fiber-reinforced concrete", *THEORETICAL AND APPLIED FRACTURE MECHANICS*, 2023 Vol. 123, Num. 0, Page 1-16,
21. 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*, 2022, 2870-2887.
22. Alireza Azarhoosh, Mehdi Koohmishi, Fereidoon Moghadas Nejad, "Evaluation of fatigue cracking of hot-mix asphalts containing recycled concrete aggregates coated with waste plastic bottles using thermodynamic parameters", *The Journal of Adhesion*, 2022, 1076-1096
23. Sepehr Ghafari, Fereidoon Moghadas Nejad, "Crack propagation characterization of crumb rubber modified asphalt concrete using JR curves", *Theoretical and Applied Fracture Mechanics*, 2022, 103-156
24. 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*, 2022
25. Sepehr Ghafari, 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" 2022
26. Alireza Houshang Poshtmesari, Fereidoon Moghadas Nejad, "Analyzing moisture susceptibility of hot-mix asphalt based on tensile strength ratio, coating ratio, and thermodynamic parameters", *Journal of Materials in Civil Engineering*, 2022
27. 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*, 2022
28. Alireza Houshang Poshtmesari, Fereidoon Moghadas Nejad, Alireza Sarkar, "Multi-scale Evaluation of Moisture Susceptibility of HMA Containing UHMWPE Based on Adhesion, Bond Strength, and Morphology", *International Journal of Pavement Research and Technology*, 2022
29. Pouria Hajikarimi, Mehrdad Ehsani, Mohammad Rahi, Sahar Maniei, Fereidoon Moghadas Nejad, "Development of Prediction Models for Complex Shear Modulus and Phase Angle of Modified Asphalt Mastic with Styrene-Butadiene-Styrene", *Journal of Transportation Research*, 2022
30. Behrouz Mataei, Fereidoon Moghadas Nejad, Hamzeh Zakeri, "Automatic pavement texture measurement using a new 3D image-based profiling system", *Measurement*, 2022
31. Peyman Mirzababaei, Fereidoon Moghadas Nejad, Pouria Hajikarimi, "Investigation on the effect of Zycotherm on fracture behavior of asphalt mixtures in the presence of moisture and deicers", *Modares Civil Engineering journal*, 2022
32. A Ebrahimi Besheli, F Moghadas Nejad, E Darvishan, "Investigating the performance of cementitious materials on mechanical properties and durability against the combined effects of freeze-thaw cycles and de-icing salt in early utilization of concrete pavements", *Modares Civil Engineering journal*, 2022
33. Behrouz Mataei, Fereidoon Moghadas Nejad, Hamzeh Zakeri, "An improved multiresolution technique for pavement texture image evaluating", *Multimedia Tools and Applications* 2022
34. 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*, 2022

35. Sajad Ranjbar, Fereidoon Moghadas Nejad, HAMZEH ZAKERI, "Asphalt Pavement Bleeding Evaluation using Deep Learning and Wavelet Transform", *Amirkabir Journal of Civil Engineering*, 2022
36. Akbar Danesh, Mehrdad Ehsani, Fereidoon Moghadas Nejad, Hamzeh Zakeri, "Prediction model of crash severity in imbalanced dataset using data leveling methods and metaheuristic optimization algorithms", *International Journal of Crashworthiness*, 2022
37. Soheil Ghyasvand, Ahamd Fahimifar, Fereidoon Moghadas Nejad, "On the optimum design of reinforcement systems for old masonry railway tunnels", *Geomechanics and Engineering*, 2022
38. 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*,
39. 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,
40. 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,
41. 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,
42. 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,
43. 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,
44. 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,
45. 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,
46. 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,
47. 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,
48. 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,
49. 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,
50. 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,
51. 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,

52. 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,
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363. 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
364. A. Azarhoosh, Gholamhossein Hamedi, Fereidoon Moghadas Nejad, "Field Study of effective parameters of Red Light of Urban Junctions ", 3rd International Traffic Accident Conference, May 2012
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366. 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
367. 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
368. 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
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370. -, Fereidoon Moghadas Nejad, Ahmad Fahimifar, "A Numerical Study On Thermal Cracking In Flexible Pavements ", 6th National Congress On civil Engineering, April 2011
371. Pedram Aghajani, Fereidoon Moghadas Nejad, "Improving the Bitumen Properties by Means of Crumb Rubber Modifier ", 6th National Congress On civil Engineering, April 2011
372. 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
373. 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
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380. 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
381. [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
382. 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
383. 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
384. 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
385. Hamzeh Zakeri, Fereidoon Moghadas Nejad, Faramarz Moodi, "Intelligent Evaluation of Asphalt Pavement, Airport and Parking lots ", 8th International Congress of Civil Engineering, May 2009
386. Fereidoon Moghadas Nejad, Mojtaba Ale Mohammadi, Soltsn A.A, "Determination of Optimum Gradation for SMA Overlays ", 8th International Civil Engineering Congress, May 2009
387. 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
388. 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
389. 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
390. 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
391. Fereidoon Moghadas Nejad, Sepehr Ghaffari, "Numerical Analysis of Concrete Overlays of Flexible Pavement ", International Conference on Concrete Pavements, August 2008
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393. 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
394. Fereidoon Moghadas Nejad, [en-name N/A], "Soil Stabilization With Cement Kiln Dust ", 4th National Congress on Civil Engineering, April 2008
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397. Fereidoon Moghadas Nejad, Saeid Tolabi, "Iranian Experiences in In-Place Cold Recycling ", 3th National Congress on Civil Engineering, May 2007
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399. Fereidoon Moghadas Nejad, Saeid Tolabi, "Overview of field Study of Geosynthetics Installation in Asphalt Overlay ", 3rd Conference on Asphalt and Asphalt Mixes, November 2006
400. Fereidoon Moghadas Nejad, "A Study on Behavior of Block Pavement Using 3D Finite Element Method ", 8th International Conference on Concrete Block Paving, September 2006
401. Fereidoon Moghadas Nejad, "A finite element study on optimum location of geogrid layer installation in asphalt overlay ", 8th International Conference on Geosynthetics, July 2006
402. Fereidoon Moghadas Nejad, "Finite element study of critical cracking condition in asphaltic overlay ", 10th International Conference on Asphalt Pavements, May 2006
403. 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
404. 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
405. Fereidoon Moghadas Nejad, "A Study on Capability of Geosynthetic for reinforcement of Reflection Cracking ", International Conference on Construction Material, ConMat'05, August 2005
406. 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
407. Fereidoon Moghadas Nejad, Hooman Rastegari, "Numerical Analysis of Concrete pavements under aircraft wheel loads ", 2nd International Conference on Concrete and Development, April 2005
408. 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
409. Fereidoon Moghadas Nejad, "Finite Element Analysis of Concrete Block Paving ", 7th International Conference on Concrete Block Paving, March 2005
410. 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
411. Fereidoon Moghadas Nejad, Ali Roudaki, "Finite Element Analysis of Flexible Pavement using ANSYS software ", 2nd Iranian Summit on Bitumin and Asphalt., March 2005
412. Fereidoon Moghadas Nejad, Saeid Tolabi, "Numerical Analysis of Critical Cracking Conditions in Asphalt Overlays ", 2nd Conference on Asphalt and Asphalt Mixes, November 2004
413. Fereidoon Moghadas Nejad, "Prediction of Bulk Specific Weight of asphalt mixtures using electrical resistance ", 2rd Conference on Asphalt and Asphalt Mixes, November 2004
414. Fereidoon Moghadas Nejad, "Using Infinite Element in Modeling the Asphaltic Concrete Pavement Behavior ", 2rd Conference on Asphalt and Asphalt Mixes, November 2004
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416. Fereidoon Moghadas Nejad, "Finite Element Analysis of Concrete Block paving ", 7th International Conference on Concrete Block paving, October 2003
417. Fereidoon Moghadas Nejad, "Evaluation of Resilient Moduli Determination Models for Pavements Materials and Subgrade Soil ", 6th International Conference on Civil Engineering, May 2003

418. Fereidoon Moghadas Nejad, Vahid Nejad Seifi, "Determination of Ballast properties for using in Numerical Modelling ", 7th International Conference on Rail Transportation, April 2003
419. Fereidoon Moghadas Nejad, Vahid Nejad Seifi, "An Overview on Lateral Stability of Continuous Welded Rails ", 7th International Conference on Rail Transportation, April 2003
420. 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
421. Fereidoon Moghadas Nejad, "A study on pullout behavior of geogrid ", 7th International Conference on Geosynthetics, September 2002
422. Fereidoon Moghadas Nejad, "A Study on Reinforced Pavements Behaviour ", March 2002
423. Fereidoon Moghadas Nejad, Seyedarash Forough, "An Overview of Geotextile Reinforced Unpaved Road Design methods ", 1st Ground Improvement Conference, March 2002
424. Fereidoon Moghadas Nejad, "Non Linear Finite Element Analysis of Reinforced pavements ", 4th International Conference on Road & Airfield Pavement Technology, January 2002
425. 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
426. Fereidoon Moghadas Nejad, "Experiencia en reciclado in situ en frio en iran cold in situ recycling experience iran " , , October 2001
427. Fereidoon Moghadas Nejad, "Geogrid reinforcement of pavements ", The 7th Australia-New Zealand Conference on Geomechanics, July 1996

MSc Theses			
No	Student Name	Supervisor	Thesis Title
1	Mohamad Reza Roozbahani	Fereidoon Moghadas Nejad	A Prediction Model for the estimation of blockage time of Railways during Maintenance Operations
2	Mehrnaz Mashayekhi	Javad Mirmohamad Sadeghi	Numerical Analysis of Thermal Stresses in Pre-stressed Concrete Pavements
3	Milad Saghebfar	Fereidoon Moghadas Nejad	A Model for the Dynamic Analysis of Railways
4	Mehdi Khosravi	Abbas Soroush	Evaluation and Optimization of Slipper Design Using ANSYS
5	Mojtaba AleMohammadi	Fereidoon Moghadas Nejad	Fatigue Behavior Comparison Between HMA and SMA
6	Ali Safaee Matin	Javad Mirmohamad Sadeghi	A Prediction Model for the Rural Roads in Iran
7	Hamzeh Zakeri	Fereidoon Moghadas Nejad	An Intelligent system for Identification of Pavement Distresses
8	Bahman Moradi Bajestani	Javad Mirmohamad Sadeghi	Evaluation of the Mechanical Properties of Emulsified Asphalt Made of Recycled Asphalt
9	Mehdi Shokri	Fereidoon Moghadas Nejad Masoud Tabibi	An Optimized Mathematical Model for Elevator Movement (Case Study Using GAMS)
10	Alireza Izadi	Mohamad Hassan Sebt Fereidoon Moghadas Nejad	Presentation of an Efficient Management System For the Design and Construction of Rural Highways Projects
11	Alireza Roohi	Fereidoon Moghadas Nejad	Numerical Analysis of Ladder Slippers Behavior
12	Omid Tehrani Bagha	Ali Khodaii Fereidoon Moghadas Nejad	A Method for Locating Speed Controls Based on Accident Modeling
13	Siamak Baeae Tabar	Fereidoon Moghadas Nejad Esmail Aflaki	Performance Evaluation of Carbon Fiber Modified Asphalt
14	Ali Tafaraji	Ali Khodaii Fereidoon Moghadas Nejad	Economical and Social Rural Accident Analysis by means of Neural Networks
15	Sepehr Ghafari	Fereidoon Moghadas Nejad Ahmad Fahimifar	Numerical Analysis of Concrete Overlays On Flexible Pavments
16	Vahi Mirmohamadi	Fereidoon Moghadas Nejad Ali Khodaii	Performance Evaluation of Rubber Powder Modified Asphalt
17	Mohamad Amin Ganjei	Ali Khodaii Fereidoon Moghadas Nejad	Finite Element Analysis and Design of Pre-stressed Concrete Pavements Under Boeing 777 Loads
18	Fakhredin Azari	Fereidoon Moghadas Nejad Esmail Aflaki	Evaluation of the Properties of the Materials used in the Ballast layer
19	Hesamodin Ghodrati	Kazem Fakharian Fereidoon Moghadas Nejad	Seismic Analysis of Tall Geogrid Reinforce Walls
20	Ebrahim Hesami	Ali Khodaii Fereidoon Moghadas Nejad	Evaluation of the Permanent Deformation of Polymer Porous Asphalt
21	Siamak Kiani	Ali Khodaii Fereidoon Moghadas Nejad	Improvement of the Quality of the Materials used for Asphalt layers by changing the Filler Content
22	Amir Modarres	Fereidoon Moghadas Nejad	Optimum Stabilization for the Caspian sea Shore Soil
23	Rooholah Fathollahi	Fereidoon Moghadas Nejad	Determination of the Optimum time for Ballast Tamping for Increasing the Railway Life
24	Bahram MoslehKhorami	Fereidoon Moghadas Nejad	Modeling the Effect of Geosynthetics in the Reduction of Road Settlement
25	Mohammad Hosseini	Fereidoon Moghadas Nejad	Effect of Horizontal Forces on the Asphalt Pavement Fatigue
26	Mohamadreza Shadravan	Esmail Aflaki Fereidoon Moghadas Nejad	3D Analysis of Block Pavements Using the Finite Element Method
27	Mojtaba Nasrollah Poor	Fereidoon Moghadas Nejad	Evaluation of the Effect of Lime Filler on the Tensile Strength Asphalt
28	Mihosseini Maktabi	Fereidoon Moghadas Nejad	Analysis of the Thermal Stresses in Concrete Pavements Using the Finite Element Method
29	Vahid NejadSeifi	Fereidoon Moghadas Nejad	Evaluation of the Effect of the Factors in the Lateral Stability of the Continuously Welded Rails
30	Sam Asiabani	Fereidoon Moghadas Nejad	Ballast Layer Thickness Design for The Tracks in Iran
31	Masoud Afsharzadeh	Javad Mirmohamad Sadeghi Fereidoon Moghadas Nejad	Identification and Categorization of the Geometric Factors Affecting the Rail-Wheel Corrosion
32	MighatHabibian	Ali Khodaii Fereidoon Moghadas Nejad	A Model for the Determination of the Appropriate Transportation to Evaluate Passengers Reaction to the Fast Track
33	MojtabaNasrollah Poor	Esmail Aflaki Fereidoon Moghadas Nejad	Evaluation of the Effect of Lime Fillers on the Tensile Strength of Asphalt
34	ArashForough	Fereidoon Moghadas Nejad	Prediction of Marshall Test Results Using The Electrical Resistance of the Mixture
35	Reza Hosseini	Fereidoon Moghadas Nejad	A Regression Model for the Determination of the CBR Based on Soil Properties
36	Saeed Toolabi	Fereidoon Moghadas Nejad	The Effect of Polymer Network on the Modification of the Flexible Pavement Performance
37	Azadeh Montazeri Poor	Fereidoon Moghadas Nejad	Using Genetic Algorithm in The Optimization of Pavements
38	Hooman Rastegari	Fereidoon Moghadas Nejad	Numerical Analysis of Concrete Pavements Under Aircraft Loading
39	Farnam Salehi	Fereidoon Moghadas Nejad	Evaluation of the Porous Properties of the Aggregates Used in the Base and Subbase Layers
40	Hamidreza Atifeh	Fereidoon Moghadas Nejad	A Study on the Pavement Components of Tracks And Determination of the Optimized Dimensions
41	Reza AhmadiJirdehi	Fereidoon Moghadas Nejad	Design and Analysis of Rigid Pavements Using the Finite Element Method
42	Al Roodaki	Fereidoon Moghadas Nejad	Mechanistic Design of Flexible Pavements Using the Finite Element Method
43	Amir Reza Tavakoli	Fereidoon Moghadas Nejad	Axial Load in Mine Track in Iran and Presentation of a Model for the Optimum Capacity
44	Alireza Noori	Fereidoon Moghadas Nejad	Performance Evaluation of Geosynthetics in Postponing Reflective Cracking in Overlaid Asphalt Pavements
45	Asadollah Noroozi	Fereidoon Moghadas Nejad	Determination of the Appropriate Track system Without Ballast
46	Naser Taheri	Fereidoon Moghadas Nejad	Controlling Rail Distresses and the Joints Based on Image Processing
47	Moahamad Hossein Karimian	Fereidoon Moghadas Nejad	Design and Use of A Pavement Management System Based on the Fuzzy Logic
48	Reza Maskani	Fereidoon Moghadas Nejad	Numerical Modeling of Asphalt Compaction Using Laboratory Data
49	Hossein Sorkhabi	Fereidoon Moghadas Nejad	Experimental Evaluation the Effect of Rest Time the Healing Mechanism of Asphalt Concrete Mixtures
50	Saeed Asadi	Fereidoon Moghadas Nejad	Evaluation of Temperature and Crack Width on the Efficiency of Geosynthetics in Controlling Reflective Cracking
51	Nasrin Karimi	Fereidoon Moghadas Nejad	An Automatic System for the Evaluation of Pavement Skid resistance By Image Processing
PhD Dissertations			
1	Sepehr Ghafari	Esmail Aflaki Fereidoon Moghadas Nejad	Evaluation and Prediction of Low Temperature Cracking in Asphalt Concrete Mixtures Considering the Effect of Different Factors
2	Masoud Fathali	Fereidoon Moghadas Nejad	Evaluation of Rubber Modified Ballast Materials Behavior Numerically and Experimentally
3	Arash Forough	Ali Khodaii Fereidoon Moghadas Nejad	Evaluation of The Thermal Fatigue Life of Asphalt Mixtures
Postdoc			

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1	Rashid Tanzadeh	Fereidoon M...	Investigation of Sustainable Electricity Generation Potentials from The Surface and Structure of Asphalt Pavements
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