

CURRICULUM VITAE

Reza Masoudi Nejad

PERSONAL PROFILE:

PhD

Department of Mechanical Engineering,

Ferdowsi University of Mashhad

Place of Birth: **Isfahan/Iran**

Date of Birth: **27/Nov/1987**

Cell Phone: **+98-939-9935405**

E-mail: masoudinejad@stu.um.ac.ir

masoudinejad@alum.sharif.edu

Homepage: <http://masoudinejad.student.um.ac.ir/>

<http://alum.sharif.edu/~masoudinejad/>



EDUCATIONAL BACKGROUND:

- PhD, Mechanical Engineering – Applied Design, Ferdowsi University of Mashhad, Mashhad, Iran. (2014-2017)
Thesis Topic: Three-dimensional analysis of rolling contact fatigue crack and life prediction in railway wheels and rails under residual stresses and wear
- M.Sc. in Mechanical Engineering – Applied Design, Sharif University of Technology, Tehran, Iran. (2010-2013)
Thesis Topic: Rolling contact fatigue analysis under influence of residual stresses.
- B.Sc. in Mechanical Engineering – Solid Mechanics, Shahrekord University, Shahrekord, Iran.(2006-2010)
Thesis Topic: Laser beam and its performance in industrial.

RESEARCH INTERESTS:

- Fatigue and Fracture Mechanics
 - Stresses, Fatigue and Friction of Rolling/Sliding
 - Surface Science and Damage
 - Contact Mechanics
 - Residual Stress Measurement and Prediction
 - Finite Element Methods
 - Applied Mathematics
 - Renewable Energy
-

TEACHING EXPERIENCE:

- Assistant Professor, Faculty of Mechanical Engineering Department, Foolad Institute of Technology, Isfahan, Iran, September 2016 up to Now.
Teaching: Continuum Mechanics, Theory of Plates and Shells, Non-Linear Elasticity, Metal Forming, Statics, Strength of Materials, Dynamics, Mechanical Engineering Design II, Mechanical Vibrations, Automatic Control
- Teaching the following courses as an invited faculty member, Islamic Azad University of Najafabad, Isfahan, Iran, June 2013 up to January 2016.
Teaching: Statics, Strength of Materials, Dynamics, Mechanical Engineering Design I, II, Mechanical Vibrations, Dynamics of Machinery, Bearing & Lubrication
- Teaching the following courses as an invited faculty member, Faculty of Engineering Department, Islamic Azad University of Tiran, Isfahan, Iran, September 2015 up to January 2016.
Teaching: Internal Combustion Engines, Bearing & Lubrication, Application of Software in Mechanical Engineering
- Teacher Assistant, Department of Mechanical Engineering, Ferdowsi University of Mashhad, September 2014 up to September 2015.
Instructor: Prof. Farhangdoost (farhang@um.ac.ir).

- Teacher Assistant, Department of Mechanical Engineering, Ferdowsi University of Mashhad, September 2014 up to January 2015.

Instructor: Prof. Shariati (mshariati44@gmail.com).

- Teaching the following courses as an invited faculty member, Faculty of Engineering Department, Islamic Azad University of Shahrekord, Shahrekord, Iran, January 2014 up to September 2014.

Teaching: Dynamics, Mechanical Vibrations

- Teacher Assistant, Department of Mechanical Engineering, Shahrekord University, September 2008 up to June 2010.

Instructor: Dr. Homaei (hadi-h@eng.sku.ac.ir).

WORKING EXPERIENCES:

- Fracture Mechanics Lab, Department of Mechanical Engineering, Ferdowsi University of Mashhad, September 2014 up to September 2017.

Thesis Topic: Three-dimensional analysis of rolling contact fatigue crack and life prediction in railway wheels and rails under residual stresses and wear

Supervisors: Prof. Shariati, Prof. Farhangdoost.

- Part time researcher, Renewable Energy Department, Energy and Environment Research Center, Niroo Research Institute (NRI), Ministry of Energy, Tehran, Sept 2011 up to January 2013.

Project Topic: Design and manufacturing a 25 kW solar concentrator system.

Head of Department: Mr. Pejman Izadkhast (pizadkhast@nri.ac.ir).

- Research Assistant, Strength of Materials Lab, Department of Mechanical Engineering, Shahrekord University, September 2007 up to June 2009.
-

ADVISOR for PROJECs:

Undergraduate Students

- Finite element analysis of residual stresses in railroad wheel during the manufacturing process, E. Tadayon, 2014, Islamic Azad University of Najafabad, Isfahan, Iran.
- Finite element modeling of contact interaction between wheel and rail by ansys

-
- software, Y. Kalbali, 2014, Islamic Azad University of Najafabad, Isfahan, Iran.
- Finite element analysis of residual stresses in welding process, A. Sheykhani, 2014, Islamic Azad University of Najafabad, Isfahan, Iran.
 - Simulation of fatigue crack growth by FRANC3D software, H.S. Farahani, 2014, Islamic Azad University of Najafabad, Isfahan, Iran.
 - Investigation of laser drilling processing methods. S. Saberian, 2014, Islamic Azad University of Najafabad, Isfahan, Iran.
 - Failure analysis of rolls of rolling mill in steel plants, J. Y. Mohammadi, 2014, Islamic Azad University of Najafabad, Isfahan, Iran.
 - Numerical study on the effect of overload parameters on fatigue life, A. A. Kamyab, 2014, Islamic Azad University of Najafabad, Isfahan, Iran.
 - Design a 10kW solar chimney power plant: a case study-Isfahan project, H. Ghafaripour, 2014, Islamic Azad University of Najafabad, Isfahan, Iran.
 - The design and construction of a solar concentrator system for rural zones, M. J. Minakar, 2017, Foolad Institute of Technology, Isfahan, Iran.
 - Design and Optimization of a solar concentrator system, A. M. Zamani, 2017, Foolad Institute of Technology, Isfahan, Iran.
 - The design and construction of a routing robot, M. Shafati, 2017, Foolad Institute of Technology, Isfahan, Iran.
 - A numerical study of fatigue crack growth path under uniaxial cyclic loading, A. Sayyah, 2017, Foolad Institute of Technology, Isfahan, Iran.
 - Investigation on the Effects of Process Parameters on Laser Drilling Using FEM, M.K. Alirezaei, 2017, Foolad Institute of Technology, Isfahan, Iran.
 - Stress analysis of various types of flanged joint using ANSYS software, F. Ganjali, 2017, Foolad Institute of Technology, Isfahan, Iran.
 - Stress analysis of rail/wheel contact using ANSYS software, A.H. Heydari, 2017, Foolad Institute of Technology, Isfahan, Iran.
 - The design and construction of a coffee roasting machine, H. Jannesar, M. Rajaei and A. Shirmohammadi, 2017, Foolad Institute of Technology, Isfahan, Iran.
 - Finite element analysis of welding process in a large thin-plate panel structure, H.

Ashoory, 2017, Foolad Institute of Technology, Isfahan, Iran.

- The design and construction of a 10kW Solar Chimney Power Plant, H. Balali, 2017, Foolad Institute of Technology, Isfahan, Iran.
- Rolling contact fatigue analysis in railroad wheel under the influence of wear, M. Salimi, 2017, Foolad Institute of Technology, Isfahan, Iran.
- Development of finite element model for analysis of Fatigue Crack growth in Rails, A. H. Lotfi, 2017, Foolad Institute of Technology, Isfahan, Iran.
- Welding simulations of steel joints by finite element analysis, O. Gholami, 2017, Foolad Institute of Technology, Isfahan, Iran.
- Monorail system and structures: a case study-Qom monorail project, M. Bolfakke, 2017, Foolad Institute of Technology, Isfahan, Iran.
- Simulation of residual stresses in railroad wheel during the quenching process, M. R. Salmani, 2018, Foolad Institute of Technology, Isfahan, Iran.
- A survey on MEMS piezoresistive pressure sensor, H. Abbasifard, 2018, Foolad Institute of Technology, Isfahan, Iran.

Graduate Students

M.Sc.

- Analytical solution of vibration, wave propagation and energy reflection of Mindlin-Reissner's higher order shear deformation theory of plate using extended wave propagation method, H. Bedashti, 2017, Foolad Institute of Technology, Isfahan, Iran.
- Numerical and experimental investigation of bending angle sheet metals using in laser forming process of composite two layered copper-aluminum, S. Z. Hoseini, 2017, Foolad Institute of Technology, Isfahan, Iran.
- Numerical and experimental investigation on fatigue crack growth behavior in thick-walled pressure vessels, H. Ghasemi, 2018, Foolad Institute of Technology, Isfahan, Iran.
- Numerical and experimental investigation on fatigue life in standard specimens under the influence of overload parameters, J. Ali Babaei, Foolad Institute of Technology, Isfahan, Iran, in progress.

- Numerical and experimental study on fatigue life in rail specimens under the influence of overload parameters, A. Gholami, Foolad Institute of Technology, Isfahan, Iran, in progress.
 - Numerical analysis of fatigue crack in the working rolls under influence of the stress field due to hot rolling process, P. Noroozian, Foolad Institute of Technology, Isfahan, Iran, in progress.
 - A study on the fatigue crack growth in railway rails under the influence of impact loading, S. M. Hashemi, Foolad Institute of Technology, Isfahan, Iran, in progress.
 - Fatigue life prediction of 2024-T3 aluminum alloy adhesively bonded T joints, M. Hadi, Foolad Institute of Technology, Isfahan, Iran, in progress.
 - An investigation on fatigue crack growth behavior and fatigue life estimation of riveted joints in Al-alloy 2024 plates, M.R. Tohidi, Foolad Institute of Technology, Isfahan, Iran, in progress.
 - Modeling of creep in ethane cracking gas furnaces under the influence of thermal stress field, B. Niknam, Foolad Institute of Technology, Isfahan, Iran, in progress.
-

HONORS and DISTINCTIONS:

- Top undergraduate student of Mechanical engineering, Shahrekord University, 1th highest GPA in department, September 2006 up to June 2010.
 - Distinguished student selected by Shahrekord University-M.Sc. fellowship, Fall 2010.
 - The elite person of Iran (see www.bmn.ir for further information), Summer 2010 up to Summer 2013.
 - Iranian National Elite Foundation (NEF) Award, Summer 2010 up to Summer 2012.
 - Ranked 1st in PhD entry exam, Mechanical Engineering Department, Ferdowsi University of Mashhad, September 2014.
 - The top 10 distinguished reviewers of "Energy Conversion and Management" journal, February 2015.
 - Ranked 1st in Cumulative GPA Among the PhD Students in Mechanical Engineering Department, Ferdowsi University of Mashhad, Fall 2015.
 - Distinguished student selected by Ferdowsi University of Mashhad - Ph.D.
-

fellowship, Fall 2016.

- The top 10 distinguished reviewers of "Journal of Energy Storage", October 2016.
 - The top 10 distinguished reviewers of "Engineering Failure Analysis", October 2016.
 - The top 10 distinguished reviewers of "International Journal of Fatigue", January 2017.
 - The top 10 distinguished reviewers of "Tribology International" journal, September 2017.
 - The top 10 distinguished reviewers of "Energy Conversion and Management" journal, December 2017.
-

REVIEWER ACTIVITY:

- International Scientific Committee and Editorial Boards, World Academy of Science, Engineering and Technology: <http://waset.org/member/rezamasoudinejad>
- International Journal of Fatigue (IF= 2.899), Elsevier, 2016-2018, (20 paper).
- Tribology International (IF=2.903), Elsevier, 2017-2018, (2 paper).
- Energy Conversion and Management (IF=5.589), Elsevier, 2014-2018, (31 paper).
Acknowledgment to reviewers: [http://dx.doi.org/10.1016/S0196-8904\(15\)00060-6](http://dx.doi.org/10.1016/S0196-8904(15)00060-6)
- Journal of Mechanical Engineering, Academic Journals, 2014-2018, (3 paper)
- Journal of Energy Storage, Elsevier, 2014-2018, (29 paper)
- Environmental Progress&Sustainable Energy(IF=1.672), Wiley,2014-2018,(23 paper)
- Engineering Failure Analysis(IF=1.676), Elsevier, 2014-2018, (6 paper)
- Journal of Mechanical Science and Technology (IF=1.128), Springer, 2014-2018, (8 paper)
- Latin American Journal of Solids and Structures (IF=1.114), ISI, 2016-2018, (3 paper)
- Journal of Solid and Fluid Mechanics, ISC, 2015-2018, (7 paper)
- Advances in Mechanical Engineering (IF=0.827), ISI, 2017-2018, (2 paper)
- Scientia Iranica Journal (IF= 1.025), ISI, 2016-2018, (1 paper)
- IEEE Intelligent Transportation Systems Magazine ISI, 2017-2018, (4 paper).

-
- Propulsion and Power Research, ISI, 2018, (1 paper).
-

MEMBERSHIP IN SOCIETIES:

- National Foundation of Elites, since 2010.
 - Young Researchers Club, since 2011 (see: www.mpj.ir).
 - Iranian Society of Mechanical Engineering, since 2012 (see: www.isme.ir).
-

BOOKS:

- Javad Akbari, **Reza Masoudi Nejad**, "Mechanical design of electromechanical systems in micro-nano scale", 1st Edition, Sharif University of Technology Publishing (October 1, 2015), in Farsi.

I have helped to publish book with Dr. J. Akbari (akbari@sharif.edu) in title:

- Javad Akbari, "Introduction to micro-nano scale manufacturing processes", 1st Edition, Sharif University of Technology Publishing (April 8, 2014), in Farsi.
-

PUBLICATIONS IN REFEREED JOURNALS:

- M. Hadipour, F. Alambeigi, R. Hosseini, **Reza Masoudi Nejad**. A Study on the Vibrational Effects of Adding an Auxiliary Chassis to a 6-Ton Truck. *The Journal of American Science*. 2011;7(6):1219-1226. <http://dx.doi.org/10.13140/2.1.2212.5609>
- **Reza Masoudi Nejad**, Pouyan Alaei. Investigation and Simulate the stress fracture in fringed tubes made of composite materials with fiber-reinforced under different loading. *Journal of New Materials*. 2011;1(4):43-52, Iran, in Farsi.
- S.M. Salehi, G.H. Farrahi, S. Sohrabpoor, **R. Masoudi Nejad**. Life estimation in the Railway Wheels under the Influence of Residual Stress Field. *International Journal of Railway Research*. 2014;1(1):53-60.
- **Reza Masoudi Nejad**. Using three-dimensional Finite Element Analysis for Simulation of Residual Stresses in Railway Wheels. *Engineering Failure Analysis*. 2014;45:449-455. <http://dx.doi.org/10.1016/j.engfailanal.2014.07.018>
- **R. Masoudi Nejad**. A Survey on Performance of Photovoltaic Systems in Iran. *Iranica Journal of Energy and Environment*. 2015;6(2):77-85.
<http://dx.doi.org/10.5829/idosi.ijee.2015.06.02.01>

-
- P. Zamani, S. Mohajerzadeh, **R. Masoudinejad**, Kh. Farhangdoost. Numerical Investigation on Optimizing Fatigue Life in a Lap Joint Structure. *World Academy of Science, Engineering and Technology*. 2015;9(5):609-615. <http://scholar.waset.org/1999.3/10001818>
 - **Reza Masoudi Nejad**, Kh. Farhangdoost, M. Shariati. Numerical study on fatigue crack growth in railway wheels under the influence of residual stresses. *Engineering Failure Analysis*. 2015;52:75-89. <http://dx.doi.org/10.1016/j.engfailanal.2015.03.002>
 - **Reza Masoudi Nejad**, Mahmoud Shariati, Khalil Farhangdoost. Effect of wear on rolling contact fatigue crack growth in rails. *Tribology International*. 2016;94:118-125. <http://dx.doi.org/10.1016/j.triboint.2015.08.035>
 - Danial Ghahremani Moghadam, Khalil Farhangdoost, **Reza Masoudi Nejad**. Microstructure and residual stress distributions under the influence of welding speed in friction stir welded 2024 aluminum alloy. *Metallurgical and Materials Transactions B*. 2016;47(3):2048-2062. <http://dx.doi.org/10.1007/s11663-016-0611-3>
 - **Reza Masoudi Nejad**, Kh. Farhangdoost, M. Shariati. Three-dimensional simulation of rolling contact fatigue crack growth in UIC60 rails. *Tribology Transactions*. 2016;59(6):1059-1069. <http://dx.doi.org/10.1080/10402004.2015.1134738>
 - Amir Atrian, G.H. Majzoobi, S.H. Nourbakhsh, S.A. Galehdari, **Reza Masoudi Nejad**. Evaluation of tensile strength of Al7075-SiC nanocomposite compacted by gas gun using spherical indentation test and neural networks. *Advanced Powder Technology*. 2016;27(4):1821-1827. <http://dx.doi.org/10.1016/j.appt.2016.06.015>
 - Mahmoud Shariati, **Reza Masoudi Nejad**. Fatigue strength and fatigue fracture mechanism for spot welds in U-shape specimens. *Latin American Journal of Solids and Structures*. 2016;13:2487-2501. <http://dx.doi.org/10.1590/1679-78253094>
 - Hesam Soleimani, **Reza Masoudi Nejad**, Khalil Farhangdoost, Mahmoud Shariati. 3D simulation of crack propagation of fatigue in rails. *Nameh-Sharif Mechanical Engineering Journal*. 2016;18(46):75-79.
 - Pedram Zamani, Abbas Taleshi Anbouhi, MRAshory, MM Khatibi, **Reza Masoudi Nejad**. Cancellation of transducer effects from frequency response functions: Experimental case study on the steel plate. *Advances in Mechanical Engineering*. 2016;8(4):1-12. <http://dx.doi.org/10.1177/1687814016645442>

-
- Mahmoud Shariati, Ehsan Mohammadi, **Reza Masoudi Nejad**. Effect of a new specimen size on fatigue crack growth behavior in thick-walled pressure vessels. *International Journal of Pressure Vessels and Piping*. 2017;150:1-10. <http://dx.doi.org/10.1016/j.ijpvp.2016.12.009>
 - **Reza Masoudi Nejad**, Mahmoud Shariati, Khalil Farhangdoost. The 3-D finite element simulation of residual stresses in UIC60 rails during the quenching process. *Thermal Science*. 2017;21(3):1301-1307. <http://dx.doi.org/10.2298/tsci151006013m>
 - **Reza Masoudi Nejad**, Khalil Farhangdoost, Mahmoud Shariati, Majid Moavenian. Stress intensity factors evaluation for rolling contact fatigue cracks in rails. *Tribology Transactions*. 2016;60(4):245-252. <http://dx.doi.org/10.1080/10402004.2016.1197351>
 - Mohammad Javad Maghrebi, **Reza Masoudi Nejad**. Performance evaluation of floating solar chimney power plant in Iran: estimation of technology progression and cost investigation. *IET Renewable Power Generation*. 2017;11(13):1659-1666. <http://dx.doi.org/10.1049/iet-rpg.2016.0963>
 - M. J. Maghrebi, **R. Masoudi Nejad**, Sajjad Masoudi. Performance analysis of sloped solar chimney power plants in the southwestern region of Iran. *International Journal of Ambient Energy*. 2017;38(6):542-549. <http://dx.doi.org/10.1080/01430750.2016.1155487>
 - Alireza Pustforushan, Pedram Zamani, **Reza Masoudi Nejad**, Mehran Kadkhodayan. A Survey on Processing Map for the Hot Deformation of Copper-Alumina Nanocomposites Using Artificial Neural Network. *Journal of Solid and Fluid Mechanics*. 2017;7(2):55-62. <https://dx.doi.org/10.22044/jsfm.2017.4043.2081>
 - **Reza Masoudi Nejad**, Mohammad Imanparast. Estimation of technology progression and cost analysis for floating solar chimney power plant: a special case-Isfahan city in Iran. *IET Renewable Power Generation*. 2018;12(8):928-933. <https://dx.doi.org/10.1049/iet-rpg.2016.0852>
 - **Reza Masoudi Nejad**, Mahmoud Shariati, Khalil Farhangdoost, Amir Atrian. Rolling contact fatigue analysis of rails under the influence of residual stresses induced by manufacturing. *Scientia Iranica*. 2018;0(0):1-38. <https://dx.doi.org/10.24200/sci.2018.5704.1429>
 - **Reza Masoudi Nejad**, Khalil Farhangdoost, Mahmoud Shariati. Microstructural

analysis and fatigue fracture behavior of rail steel. *Mechanics of Advanced Materials and Structures*. 2018;0(0):1-13. <https://dx.doi.org/10.1080/15376494.2018.1472339>

- Karim Aliakbari, Mohammad Imanparast, **Reza Masoudi Nejad**. Microstructure and fatigue fracture mechanism for a heavy-duty truck diesel engine crankshaft. *Scientia Iranica*. 2018;0(0):1-37. <https://dx.doi.org/10.24200/sci.2018.50964.1939>
- Mahmoud Shariati, Majid Mirzaei, **Reza Masoudi Nejad**. An applied method for fatigue life assessment of engineering components using Rigid-Insert Crack Closure Model. *Engineering Fracture Mechanics*. 2018;0(0):1-21. [Accepted for publication](#).
- **Reza Masoudi Nejad**, M. Shariati, Khalil Farhangdoost. Prediction of Fatigue Crack Propagation and fractography of samples of rail steel. 2018. [Submitted to Journal](#).
- Hossein Ghasemi, **Reza Masoudi Nejad**, Yaghoub Tadi Beni, Mahmoud Shariati. Fatigue and fracture behavior of a Grade A516 steel used in thick-walled pressure vessels. 2018. [Submitted to Journal](#).

PUBLICATIONS IN CONFERENCES:

- Keikhosrow Firoozbakhsh, Rouhollah Hosseini, Hossein Naseri, **Reza Masoudi Nejad**. Vibrational Analysis of a Truck Chassis: A Case Study, Applied Mechanics and Materials Conference, ASME 2011, June 2011, USA.
<http://dx.doi.org/10.13140/2.1.2474.7049>
- **Reza Masoudi Nejad**. Investigation the multiaxial failure criterion for a brittle orthotropic composite material: An Experimental Study, 2nd National Conference on Civil Engineering, February 2011, Iran, in Farsi.
- **Reza Masoudi Nejad**, Pouyan Alaei. The study and analysis the stress field in wedge-shaped concrete dam under hydrostatic pressure. 3rd National Conference on Civil Engineering, April 2012, Iran, in Farsi.
- **Reza Masoudi Nejad**, Pouyan Alaei. A Methodology of Solar Concentrating Parabolic Dish Design Based on the Nonlinear Elasticity Calculation. International Congress of Recent Advances in Engineering (ICRAE 2013), March 2013, Iran.
<http://dx.doi.org/10.13140/2.1.4834.0008>
- **R. Masoudi Nejad**, S.M. Salehi, G.H. Farrahi. Simulation of railroad crack growth life under the influence of combination mechanical contact and thermal loads, 3rd

International Conference on Recent Advances in Railway Engineering (ICRARE 2013), April 2013, Iran. <http://dx.doi.org/10.13140/2.1.1688.2723>

- **R. Masoudi Nejad**, S.M. Salehi, G.H. Farrahi, M. Chamani. Simulation of crack propagation of fatigue in Iran railroad wheels and Effect of residual stresses, 21st International Conference on Mechanical Engineering (ISME 2013), May 2013, Iran, in Farsi. <http://dx.doi.org/10.13140/2.1.3785.4244>
- Pedram Zamani, **Reza Masoudi Nejad**, Khalil Farhangdoost. Computation of Stress intensity factors of collinear interacting cracks in a simple lap joint structure, 1st National Conference on Development of Civil Engineering, Architecture, Electricity and Mechanical in Iran, December 2014, Iran.
<http://dx.doi.org/10.13140/2.1.4965.0724>
- P. Zamani, S. Mohajerzadeh, **R. Masoudi Nejad**, Kh. Farhangdoost. Numerical Investigation on Optimizing Fatigue Life in a Lap Joint Structure, XIII International Conference on Mechanical, Aeronautical and Automotive Engineering, May 2015, Italy. <http://dx.doi.org/10.13140/RG.2.1.4732.8805>
- **Reza Masoudi Nejad**, Hesam Soleimani, Saeed Mahmoodi Beram, Mahmoud Shariati, Khalil Farhangdoost. Stress intensity factors calculation under influence of lubricating fluid in railway rails, 1st International Conference on Mechanical and Aerospace Engineering, April 2016, Iran, in Farsi.
<https://dx.doi.org/10.13140/RG.2.1.1962.7921/1>
- Hesam Soleimani, **Reza Masoudi Nejad**, Majid Moavenian. Common failures in wheel and rail and different methods of measuring their profiles, 1st International Conference on Mechanical and Aerospace Engineering, April 2016, Iran, in Farsi.
<https://dx.doi.org/10.13140/RG.2.1.4920.3603>
- **Reza Masoudi Nejad**, Hesam Soleimani, Amin Saber, Khalil Farhangdoost, Mahmoud Shariati. 3D simulation of crack propagation of fatigue in rails, 1st International Conference on New Research Achievements in Mechanic, Mechatronic and Biomechanic, May 2016, Iran, in Farsi.
<https://dx.doi.org/10.13140/RG.2.1.3011.3685/1>
- Hesam Soleimani, **Reza Masoudi Nejad**, Majid Moavenian. Wear mechanism and effective factors on wheel-rail contact, 1st International Conference on New Research

Achievements in Mechanic, Mechatronic and Biomechanic, May 2016, Iran, in Farsi.
<https://dx.doi.org/10.13140/RG.2.1.3903.0165>

- Hossein Ghasemi, **Reza Masoudi Nejad**, Yaghoub Tadi Beni, Mahmoud Shariati. Fatigue crack propagation behavior in A516 thick-walled pressure vessel steel, 26st Annual International Conference of Iranian Society of Mechanical Engineers (ISME 2018), April 2018, Iran, in Farsi.
-

COMPUTER SKILLS:

- Technical Software:
 - ✓ Mechanical Design: CATIA, Solid Works, AutoCAD.
 - ✓ Mechanical Simulation & Analysis: ABAQUS, ANSYS, FRANC 2D, FRANC 3D.
 - ✓ Mathematical Simulation: MATLAB.
 - ✓ Programming language: FORTRAN 90.
 - ✓ Others: Microsoft Office.
-

LANGUAGES:

- Persian: (mother tongue)
 - English
-

REFERRES:

- Prof. M. Shariati, Ferdowsi University of Mashhad, Email: mshariati44@um.ac.ir
- Prof. Kh. Farhangdoost, Ferdowsi University of Mashhad, Email: farhang@um.ac.ir
- Prof. M. J. Maghrebi, Ferdowsi University of Mashhad, Email: mjmaghrebi@um.ac.ir
- Prof. J. Akbari, Sharif University of Technology, Email: akbari@sharif.edu