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h-index (Scopus):  
Citations (Scopus):

### Supervised MSc Theses

#	Thesis title	By	Date
1	Analysis of the effect of dimensional deviations on the dynamic behavior of a four-cylinder internal combustion engine mechanism	Mohammad Hossein Sirousi Shirg & Mohsen Rezaeian Akbarzadeh	March 2022
2	Kinetic analysis of vibratory bowl feeder in Orienting of bottle caps for packaging line	Elham Biabi & Mohsen Rezaeian Akbarzadeh	October 2021
3	Study on high- cycle fatigue on a high strength steel	Mohsen Faramarzi Tabar & Mohsen Rezaeian Akbarzadeh	July 2020
4	Dimensional and Geometrical Tolerance Analysis of Welding Assembly of Two Flexible Sheet Metal Parts	Parisa Omidvar & Mohsen Rezaeian Akbarzadeh	February 2020
5	Evaluation of the Aerodynamic Effects of a design of wind shield for Honda CG125 Motorcycle on Fuel Consumption and Dynamic Stability	Ali Khalili & Mohsen Rezaeian Akbarzadeh	December 2019
6	Reliability Evaluation of Lift (Elevator) Mechanical Subsystems	Hossein Zahmatkesh Abbasi & Mohsen Rezaeian Akbarzadeh	July 2019
7	Modeling of geometrical and dimensional tolerances chain of heavy mechanical press mechanism for precian and calibration	Arash Habibi & Mohsen Rezaeian Akbarzadeh	July 2019
8	Optimization of Mould Oscillator Parameters of Continuous Casting For Surface Quality of Product and Lubricant Consumption	Mahdi Rooki & Mohsen Rezaeian Akbarzadeh	June 2019

9	Reliability evaluation of welded joint using lower transformation temperature fillers	Moeinadin Farsinejad Marj & Mohsen Rezaeian Akbarzadeh	June 2019
10	Mathematical modeling and Improvement Evaluation of longitudinal Vehicle Dynamics using Dual Clutch Transmission	Alireza Naserdoust & Mohsen Rezaeian Akbarzadeh	February 2018
11	reliability evaluation of a typical column for a steel frame under coincidence of uniform and pitting corrosion	Yaser Eidizadeh & Mohsen Rezaeian Akbarzadeh	February 2018
12	Design and Dynamic Analysis of a Simulator for Hippotherapy	Hossein Talebi Rostami & Mohsen Rezaeian Akbarzadeh	February 2018
13	Compatible Design and Manufacture of Equipment For CG125 Honda Motorcycle, For Usage Enhancement and Motorist Protection	Hamid Sheykh Faghihi & Mohsen Rezaeian Akbarzadeh	July 2017
14	Dynamic Stress Analysis of Bogie Frame and Bolster of General Motors Locomotive GT26CW and Related Reliability Evaluation	Seyed Ahmad Sanikhani & Mohsen Rezaeian Akbarzadeh	February 2017
15	Simulation and reliability based stress analysis of pipe repairs by welding technique	Mehdi Najafi Charmini & Mohsen Rezaeian Akbarzadeh	December 2016
16	design and evaluation of durability test of vehicle single and double plate clutch	Parham Behrooznamini & Mohsen Rezaeian Akbarzadeh	May 2016
17	Modeling and analysis of aircraft landing gear and analysis of reliability and its availability	Hadis Montazeri & Mohsen Rezaeian Akbarzadeh	May 2016
18	Modeling and performance analysis of rubber shaft seal for rotating equipment with respect to component tolerance	Seyed Hamid Miratashi & Mohsen Rezaeian Akbarzadeh	November 2015
19	Analysis of measuring uncertainty of a portable articulated arm coordinate measuring machine	Alireza Abdolahifard & Mohsen Rezaeian Akbarzadeh	October 2015
20	Modeling and analysis of vibrating screen mechanism with double eccentric shaft and analysis of reliability and availability its	Shahzad Siroeinejad & Mohsen Rezaeian Akbarzadeh	October 2015
21	Dynamic performance Analysis of Crankshaft and piston Components of engine based on mass and dimensional tolerances	Ramin Ghazavi & Mohsen Rezaeian Akbarzadeh	October 2015
22	Modeling and stress analysis of steel and composite plate subjected to underwater shock wave loading	Hamed Jafari & Mohsen Rezaeian Akbarzadeh	October 2015
23	Designing a horse movements simulator with the approach of rehabilitation for disabled persons	Parisa Naghdi & Mohsen Rezaeian Akbarzadeh	October 2015
24	tribological modeling of a piston pump valve plate to improve its reliability	Mohammad Taghi Hassani Jabali & Mohsen Rezaeian Akbarzadeh	October 2015
25	Evaluation of creep and fatigue behavior in the header pipe of boiler	Erfan Sharifzadeh & Mohsen Rezaeian Akbarzadeh	October 2015
26	Analysis of convection heat transfer coefficient and thermal stresses in friction lining and disk of train mechanical brakes	Hamed Dehdarpour & Mohsen Rezaeian Akbarzadeh	April 2015

27	Conceptual design and Dynamic analysis of a type of intuitive mechanism for opening and closing of piston engine valves with variable timing	Syedmohammadreza Mostafaie & Mohsen Rezaeian Akbarzadeh	April 2015
28	Modeling & Evaluation of Reliability of Mobile crane Dynamics & Stability	Seyed Meisam Aghamiri & Mohsen Rezaeian Akbarzadeh	February 2015
29	Design improvement of climbing ascender system for safety	Omid Yazdani & Mohsen Rezaeian Akbarzadeh	February 2015
30	Statistical stress analysis and modeling of butt weld joint with respect to common defects and application in reliability evaluation of pressure vessels	Akbar Jafari & Mohsen Rezaeian Akbarzadeh	October 2014
31	Motorcyclist Helmet Modeling For Optimum Energy Absorption And Impact Strength With Respect To Internal Air Conditioning	Rasoul Nemati Faruji & Mohsen Rezaeian Akbarzadeh	February 2014
32	Investigation of dynamic behavior of urban telecommunications mast with a probable damage in effect of random excitation of earthquake	Mona Zandbaf & Mohsen Rezaeian Akbarzadeh	February 2014
33	Durability analysis using methodology DOE and analyzing effective factors on reliability and durability of lead acid batteries	& Mohsen Rezaeian Akbarzadeh	February 2014
34	Study of Crack Growth Initiation in 3PB Specimen Using Local Approach	Ahmad Mohammadi & Mohsen Rezaeian Akbarzadeh	February 2014
35	Optimization of blended brake system of locomotive for improvement of stopping distance	& Mohsen Rezaeian Akbarzadeh	February 2014
36	The effect of Spud can's "corrosion failure mode" on structure stability of jack up drilling rigs	Majid Shekarian Dehkordi & Mohsen Rezaeian Akbarzadeh	January 2014
37	Modeling of heavy vehicle air brake system for sensitivity analysis of the leakage in critical positions on brake performance	Saeid Bagherpour Aghmiuni & Mohsen Rezaeian Akbarzadeh	October 2013
38	The review & calculation of the relation between reliability concept with parts life in gas turbines	& Mohsen Rezaeian Akbarzadeh	September 2013
39	Reliability model for mechanical properties of handling and performance of pneumatic tires on the results of standardized tests	Aminreza Karamoozian & Mohsen Rezaeian Akbarzadeh	September 2013
40	Analysis and simulation of wheel rail profile impact on GT26CW locomotive safety and stability	& Mohsen Rezaeian Akbarzadeh	January 2013
41	Deriving education service design , for collision reduction , through social & economical sustainability approaches	Saleh Baradaranamini & Mohsen Rezaeian Akbarzadeh	October 2012
42	Tehran gas consumption simulation and analysis	Mohammadsajjad Zalipour & Mohsen Rezaeian Akbarzadeh	February 2012
43	sustainable design of a caravan based on cammon platform	Shahab Khosravi & Mohsen Rezaeian Akbarzadeh	February 2012
44	Study on welding residual stresses on high strength aluminum pressure vessels and development of relationships between residual stress and geometrical parameters	& Mohsen Rezaeian Akbarzadeh	February 2012

45	The effect of mismatch on mechanical properties and distortion welding in a welded vessel of high strength aluminium alloy	Ali Ghasemi & Mohsen Rezaeian Akbarzadeh	October 2011
46	GD&T optimization for 32 cavity PET bottle perform injection mold with consideration of bending deflection of clamp platens	Abouzar Altafi & Mohsen Rezaeian Akbarzadeh	January 2010
47	Tribologic analysis of wear for gear train of a mechanical press driving system	Iman Nabiyouni & Mohsen Rezaeian Akbarzadeh	November 2009
48	Modeling and evaluation reliability of steel wheel for automotive based on design parameter variations	Behrooz Afzalifar & Mohsen Rezaeian Akbarzadeh	February 2009
49	SIMULATION OF THE DYNAMIC BEHAVIOR OF THREE-PIECE BOGIE UNDER DIFFERENT TRACK CONDITIONS	Amir Khoram & Mohsen Rezaeian Akbarzadeh	January 2007
50	ANALYSIS AND DESIGN OF DIMENSIONAL AND GEOMETRICAL TOLERANCES OF A FRICTION CLUTCH COMPONENTS AND SYSTEM	Vahid Sheibanei & Mohsen Rezaeian Akbarzadeh	March 2006

## Journal Papers

### Portal Records

- 1 Amir Hosein Vali, Afshin Taghvaeipour, Ali Kamalie Iglie, Mohsen Rezaeian Akbarzadeh, "Kinematic Reliability Analysis of 3-PSSmanipulator based on the explicit solution and design of experiment method", AUT Journal of Mechanical Engineering, October 2020 Vol. 4, Num. 4, Page 1-12, October 2020,
- 2 Akbar Jafari, Mohsen Rezaeian Akbarzadeh, "Stress Intensity Factor Expression for Welded Butt Joint with Undercut and Inclined Lack of Penetration Defects considering the Effect of Joint Shape", Journal of Applied and Computational Mechanics, October 2019 Vol. 6, Num. 0, Page 1-15, October 2019,
- 3 Aminreza Karamoozian, Chin An Tan, Liangmo Wang, Mohsen Rezaeian Akbarzadeh, Gang Chen, "Sensitivity Analysis of the Equal Angle Divider Mechanism Kinematics with Synthesis of the Gap Tolerances", MECHANICS BASED DESIGN OF STRUCTURES AND MACHINES, April 2018 Vol. 46, Num. 0, Page 499-519, April 2018,
- 4 Ahmad Mohammadi, Iraj Sattari Far, Mohsen Rezaeian Akbarzadeh, "Calibration of Weibull Parameters of Local Approach to Fracture by Using Experimental Cleavage Fracture data of Three Point Bending Specimens", , April 2015 Vol. 15, Num. 1, Page 412-418, April 2015,
- 5 Firooz Bakhtiari Nejad, Amir Khorram, Mohsen Rezaeian Akbarzadeh, "Analytical Estimation of Natural Frequencies and Mode Shapes of a Beam Having Two Cracks", INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, January 2014 Vol. 78, Num. 0, Page 193-202, January 2014,
- 6 Aminreza Karamoozian, Mohsen Rezaeian Akbarzadeh, "Effect of longitudinal and lateral forces of tire on the vehicle dynamics during braking maneuver on mu-split roads", PENSEE, October 2013 Vol. 75, Num. 11, Page 228-243, October 2013,
- 7 Amir Khorram, Mohsen Rezaeian Akbarzadeh, Firooz Bakhtiari Nejad, "Multiple Cracks Detection in a Beam Subjected to a Moving load Using Wavelet Analysis Combined with Factorial Design", EUROPEAN JOURNAL OF MECHANICS A-SOLIDS, January 2013 Vol. 40, Num. 0, Page 97-113, January 2013,
- 8 Amir Khorram, Firooz Bakhtiari Nejad, Mohsen Rezaeian Akbarzadeh, "Comparison Studies between Two Wavelet Based Crack Detection Methods of a Beam Subjected to a Moving Load", INTERNATIONAL JOURNAL OF ENGINEERING SCIENCE, February 2012 Vol. 51, Num. 1, Page 204-215, February 2012,
- 9 Hamid Baseri, S.Mehdi Rezaei, Abdolreza Rahimi, Mohsen Rezaeian Akbarzadeh, "Influence of Disk Dressing Process on Increased Grinding Performance", Journal of Amirkabir, August 2007 Vol. 18, Num. 66, Page 0-0, August 2007,
- 10 Hamid Baseri, S.Mehdi Rezaei, Abdolreza Rahimi, Mohsen Rezaeian Akbarzadeh, "Modelling of Disc Dressing Forces", Machining Science and Technology, January 2007 Vol. 11, Num. 2, Page 0-0, January 2007,

## Conference Papers

## Portal Records

- 1 Hossein Zahmatkesh Abbasi, Mohsen Rezaeian Akbarzadeh, "Brake Distance Reliability Evaluation of Typical Progressive Safety Gear of Elevator by First Order Reliability Method ", The 2nd International Conference on New Horizons in Electrical Engineering, Mechanics and Industries, December 2018
- 2 Amin Kazemi, Mohammadali Shahiri, Valerie Cooper, Mohsen Rezaeian Akbarzadeh, Ahmadreza Arshi, "Mathematical Modelling of Horse-Rider kinesiological Interaction in Hippotherapy ", CSB 2018 Halifax, August 2018
- 3 Mohammadali Shahiri, Amin Kazemi, Valerie Cooper, Mohsen Rezaeian Akbarzadeh, Ahmadreza Arshi, "Principles of Event Detection in Biomechanical Interactions During Hippotherapy ", CSB 2018 Halifax, August 2018
- 4 Yaser Eidizadeh, Mohsen Rezaeian Akbarzadeh, Mohammad Ehsani, "Finite Element Based Reliability Assessment of Jack up Rigs under Extreme Environmental Loading ", 5th International Reliability and Safety Engineering Conference, May 2018
- 5 Mohsen Rezaeian Akbarzadeh, Somaye Mohammadi, "Evaluation of Reliability of Design Methods and Statistical Analysis of Experiments ", 5th International Reliability and Safety Engineering Conference, May 2018
- 6 Akbar Jafari, Mohsen Rezaeian Akbarzadeh, "Probabilistic Fracture Mechanics of Butt Welded Joints Containing Inclined Lack of Penetration (LOP) Defects ", 5th International Reliability and Safety Engineering Conference, May 2018
- 7 Akbar Jafari, Mohsen Rezaeian Akbarzadeh, "An Expression for Stress Intensity Factor of Butt Welded Joint Containing Inclined Lack of Penetration (LOP) Defects ", 5th International Reliability and Safety Engineering Conference, May 2018
- 8 Abbas Heidari, Mohsen Rezaeian Akbarzadeh, "Mechanical Equipment Reliability Analysis of Cement Plant : case study ", 4th International Reliability Engineering Conference, May 2016
- 9 Mohammad Taghi Hassani Jabali, Mohsen Rezaeian Akbarzadeh, Kamran Kazemi, "Tribological Modeling of Piston Pump Valve Plate for Evaluating the Reliability of Pump ", 4th International Reliability Engineering Conference, May 2016
- 10 Alireza Abdolahifard, Mohsen Rezaeian Akbarzadeh, Atieh Alihosseini, "Reliability based Design of Planar Coordinate Measuring Arm with Monte Carlo Method ", 4th International Reliability Engineering Conference, May 2016
- 11 Mehdi Najafi Charmini, Mohsen Rezaeian Akbarzadeh, "Reliability Analysis of Oil Pipelines based on Probabilistic Models for Corrosion Defect ", 4th International Reliability Engineering Conference, May 2016
- 12 Shahrzad Siroeinejad, Mohsen Rezaeian Akbarzadeh, "Probabilistic Analysis for Fatigue Failure of Eccentric Shaft of the Vibrating Screen in the Mining Industries ", 4th International Reliability Engineering Conference, May 2016
- 13 Abdolhossein Mohammadrahimi, Mohsen Rezaeian Akbarzadeh, Mesbah Sayehbani, Mohammadreza Zareei, "Failure and reliability assessment of hatch cover of bulk carrier ", International offshore industries conference, May 2015
- 14 , Mohsen Rezaeian Akbarzadeh, "Locomotive Braking Distance Reduction Using Blended Braking System ", 22nd Annual International Conference on Mechanical Engineering, April 2014
- 15 Ali Khodadad, Mohsen Rezaeian Akbarzadeh, Hadi Khodadad, Seyed Meisam Aghamiri, "Reliability Based Design of Wind Turbine Blades with respect to Fatigue Analysis ", 3rd International Reliability Engineering Conference, February 2014
- 16 , Mohsen Rezaeian Akbarzadeh, Mahdi Mondali, "Analysis and Simulation of wheel Profile on GT26CW Locomotive Safety ", 3rd International Reliability Engineering Conference, February 2014
- 17 Hossein Poursabagh Poursabagh Roknabadi, Mina Mahmoodi, Mohsen Rezaeian Akbarzadeh, Miralireza Seyedkanani, "Dimensional Tolerance Analysis of Link-Gear Tangent Generator in varying motion phases ", 3rd International Reliability Engineering Conference, February 2014
- 18 Hossein Poursabagh Poursabagh Roknabadi, Mina Mahmoodi, Ila Homayonfar, Mohsen Rezaeian Akbarzadeh, Miralireza Seyedkanani, "Dimensional Tolerance Analysis of Clamping Device of Injection Molding Machine ", 3rd International Reliability Engineering Conference, February 2014

- 19 Ahmad Mohammadi, Mohsen Rezaeian Akbarzadeh, Iraj Sattari Far, "Statistical Analysis of the Experimental data on Behavior of Brittle Fracture Modeling Based on Local Approach ", Third International conference on Reliability Engineering, February 2014
- 20 Seyed Meisam Aghamiri, Ali Khodadad, Mohsen Rezaeian Akbarzadeh, "Improving Load Lift Planning with respect to Safety and Reliability Improving Load Lift Planning with respect to safety and Reliability ", 3rd International Reliability Engineering Conference, February 2014
- 21 Mohsen Rezaeian Akbarzadeh, Masoud Pedram, "Structural Reliability Study of Ship haul : Application ", 3rd International Reliability Engineering Conference, February 2014
- 22 Vahid Sheibanei, Mohsen Rezaeian Akbarzadeh, "Design and Analysis of Dimensional and Geometric Tolerances of Automotive Friction Clutch System ", International Conference of Mechanical Engineering and Advanced Technology 2012, October 2012
- 23 Vahid Sheibanei, Mohsen Rezaeian Akbarzadeh, "Clutch-Brake Cooling System Optimization of a High Capacity Mechanical Press ", International Conference of Mechanical Engineering and Advanced Technology, October 2012
- 24 Vahid Sheibaei, Mohsen Rezaeian Akbarzadeh, "Effects Analysis of Clutch Component Dimensional Tolerances on Car Power Train Vibrations during clutch engagement ", International Conference of Mechanical Engineering and Advanced Technology 2012-, October 2012
- 25 Nasser Elmi Ghiasi, Mohsen Rezaeian Akbarzadeh, "Performance Assessment and Comparison of Dynamic Models for Conveyor belt Vibrations ", 1st. International Conference on Acoustics and Vibration - ISAV 2011, December 2011
- 26 Ali Ghasemi, Iraj Sattari Far, Mohsen Rezaeian Akbarzadeh, "Effect of misalignment on welding distortion in aluminium vessels using FEM ", International Conference on Manufacturing Engineering, December 2011
- 27 Mohsen Rezaeian Akbarzadeh, Bashar Albaalbaki, "Optimization of a Granulation System ", The 2nd annual Particle Technology Research Centre Conference, July 2009
- 28 Mohsen Rezaeian Akbarzadeh, Bashar Albaalbaki, "Analysis of Roll Compaction Process for Powders ", The 2nd annual Particle Technology Research Centre Conference, July 2009
- 29 Hamid Baseri, S.Mehdi Rezaei, Abdolreza Rahimi, Mohsen Rezaeian Akbarzadeh, "Investigation of the rotary disc dressing process ", , November 2007