SelÃ§uk Erkaya

List of Publications by Year
in descending order

36 papers	1,519 citations	361045 20 h-index	395343 33 g-index
38 all docs	38 docs citations	38 times ranked	619 citing authors

#	Article	IF	Citations
1	Experimental investigation of joint clearance effects onÂtheÂdynamics of a slider-crank mechanism. Multibody System Dynamics, 2010, 24, 81-102.	1.7	148
2	Determining link parameters using genetic algorithm in mechanisms with joint clearance. Mechanism and Machine Theory, 2009, 44, 222-234.	2.7	128
3	Investigation on effect of joint clearance on dynamics ofÂfour-bar mechanism. Nonlinear Dynamics, 2009, 58, 179-198.	2.7	123
4	A neuralâ€“genetic (NNâ€“GA) approach for optimising mechanisms having joints with clearance. Multibody System Dynamics, 2008, 20, 69-83.	1.7	119
5	Effects of joint clearance on the dynamics of a partly compliant mechanism: Numerical and experimental studies. Mechanism and Machine Theory, 2015, 88, 125-140.	2.7	108
6	Investigation of joint clearance effects on welding robot manipulators. Robotics and Computer-Integrated Manufacturing, 2012, 28, 449-457.	6.1	83
7	Fault detection on robot manipulators using artificial neural networks. Robotics and Computer-Integrated Manufacturing, 2011, 27, 115-123.	6.1	80
8	Experimental investigation of flexible connection and clearance joint effects on the vibration responses of mechanisms. Mechanism and Machine Theory, 2018, 121, 515-529.	2.7	77
9	Optimization of transmission angle for slider-crank mechanism with joint clearances. Structural and Multidisciplinary Optimization, 2009, 37, 493-508.	1.7	69
10	Analysis of the joint clearance effects on a compliant spatial mechanism. Mechanism and Machine Theory, 2016, 104, 255-273.	2.7	58
11	Modeling and simulation of joint clearance effects on mechanisms having rigid and flexible links. Journal of Mechanical Science and Technology, 2014, 28, 2979-2986.	0.7	56
12	A comparative analysis of joint clearance effects on articulated and partly compliant mechanisms. Nonlinear Dynamics, 2015, 81, 323-341.	2.7	55
13	Trajectory optimization of a walking mechanism having revolute joints with clearance using ANFIS approach. Nonlinear Dynamics, 2013, 71, 75-91.	2.7	54
14	Dynamic analysis of a sliderâ€“crank mechanism with eccentric connector and planetary gears. Mechanism and Machine Theory, 2007, 42, 393-408.	2.7	43
15	Prediction of vibration characteristics of a planar mechanism having imperfect joints using neural network. Journal of Mechanical Science and Technology, 2012, 26, 1419-1430.	0.7	42
16	Clearance-induced vibration responses of mechanical systems: computational and experimental investigations. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	0.8	36
17	Noise and Vibration Analysis of Car Engines using Proposed Neural Network. JVC/Journal of Vibration and Control, 2009, 15, 133-156.	1.5	35
18	Effects of balancing and link flexibility on dynamics of a planar mechanism having joint clearance. Scientia Iranica, 2012, 19, 483-490.	0.3	34

#	Article	IF	Citations
19	Investigation of balancing problem for a planar mechanism using genetic algorithm. Journal of Mechanical Science and Technology, 2013, 27, 2153-2160.	0.7	30
20	Experimental analysis on fault detection for a direct coupled rotor-bearing system. Measurement: Journal of the International Measurement Confederation, 2013, 46, 336-344.	2.5	30
21	Determining power consumption using neural model in multibody systems with clearance and flexible joints. Multibody System Dynamics, 2019, 47, 165-181.	1.7	17
22	The Use of Neural Network Predictors for Analyzing the Elevator Vibrations. Arabian Journal for Science and Engineering, 2014, 39, 1157-1170.	1.1	15
23	Robust model-free control of a class of uncertain nonlinear systems using BELBIC: stability analysis and experimental validation. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	14
24	Investigation of joint clearance effects on actuator power consumption in mechanical systems. Measurement: Journal of the International Measurement Confederation, 2019, 134, 400-411.	2.5	13
25	Effects of Joint Clearance on the Motion Accuracy of Robotic Manipulators. Strojniski Vestnik/Journal of Mechanical Engineering, 2018, 64, .	0.6	9
26	Oils quality and performance analysis of vehicle's engines using radial basis neural networks. Industrial Lubrication and Tribology, 2009, 61, 301-310.	0.6	8
27	An Experimental Study on Gear Diagnosis by Using Acoustic Emission Technique. International Journal of Acoustics and Vibrations, 2016, 21, .	0.3	7
28	Analysis of the vibration characteristics of an experimental mechanical system using neural networks. JVC/Journal of Vibration and Control, 2012, 18, 2059-2072.	1.5	6
29	Vibration analysis of food industries mixing systems for long life using neural networks. , 2011, , .		5
30	Design of neural networks model for transmission angle of a modified mechanism. Journal of Mechanical Science and Technology, 2005, 19, 1875-1884.	0.7	3
31	Passive balancing of a rotating mechanical system using genetic algorithm. Scientia Iranica, 2012, 19, 1502-1510.	0.3	3
32	Modelling and evaluation of light railway systemâ€™s noise using neural predictors. Journal of Environmental Health Science & Engineering, 2015, 13, 20.	1.4	3
33	Determination of Structural Damping and Optimal Vibration Control of an Adhesively-Bonded Double Containment Cantilever Joint. Journal of Adhesion Science and Technology, 2009, 23, 339-359.	1.4	2
34	Effects of metal surface grinding at the porcelain try-in stage of fixed dental prostheses. Journal of Advanced Prosthodontics, 2014, 6, 317.	1.1	2
35	Balancing of Planar Mechanisms Having Imperfect Joints Using Neural Network-Genetic Algorithm (NN-GA) Approach. , 2016, , 299-317.		1
36	Minimization of Shaking Force and Moment on a Four-Bar Mechanism Using Genetic Algorithm. , 2016, , 319-336.		1