Aref Mardani

List of Publications by Year
in descending order

54 papers	1,066 citations
21 h-index (331670)	31 g-index (434195)
54 all docs	54 docs citations
54 times ranked	837 citing authors

#	ARTICLE	IF	CITATIONS
1	Estimation of Optimal Cone Index by Using Neural Networks. Arabian Journal for Science and Engineering, 2021, 46, 7435-7443.	3.0	0
2	Prediction of soil vertical stress under off-road tire using smoothed-particle hydrodynamics. Journal of Terramechanics, 2021, 95, 7-14.	3.1	9
3	Development of a Novel System for Measuring Soil Stress and Rut Depth Under Off-Road Vehicle Tires. IEEE Instrumentation and Measurement Magazine, 2021, 24, 30-38.	1.6	0
4	Investigating the effects of off-road vehicles on soil compaction using FEA-SPH simulation. International Journal of Heavy Vehicle Systems, 2021, 28, 455.	0.2	3
5	Evolutionary algorithms application for improving the tire rolling resistance based on Wismerâ€"Luth model. Neural Computing and Applications, 2020, 32, 5173-5183.	5.6	6
6	Prediction of energy dissipation of off-road vehicles using smoothed-particle hydrodynamics techniques. International Journal of Vehicle Systems Modelling and Testing, 2020, 14, 149.	0.1	0
7	Appraisal of numerical based finite element method to synthesise the wheel-obstacle collision dynamics using a single-wheel tester. International Journal of Heavy Vehicle Systems, 2019, 26, 578.	0.2	0
8	Development of an HLFS agricultural tire model using FEA technique. SN Applied Sciences, 2019, 1, 1.	2.9	7
9	A novel system developed based on image processing techniques for dynamical measurement of tire-surface contact area. Measurement: Journal of the International Measurement Confederation, 2019, 139, 270-276.	5.0	17
10	Appraisal of numerical based finite element method to synthesise the wheel-obstacle collision dynamics using a single-wheel tester. International Journal of Heavy Vehicle Systems, 2019, 26, 578.	0.2	0
11	Prediction effect of farmyard manure, multiple passes and moisture content on clay soil compaction using adaptive neuro-fuzzy inference system. Journal of Terramechanics, 2018, 77, 49-57.	3.1	14
12	Off-road Vehicle Dynamics. Studies in Systems, Decision and Control, 2017, , .	1.0	22
13	Introduction to Off-road Vehicles. Studies in Systems, Decision and Control, 2017, , 1-16.	1.0	0
14	Wheel and Terrain Interaction. Studies in Systems, Decision and Control, 2017, , 17-52.	1.0	2
15	Performance of Off-road Vehicles. Studies in Systems, Decision and Control, 2017, , 53-105.	1.0	0
16	Energetic Perspective of Off-road Vehicle Mobility. Studies in Systems, Decision and Control, 2017, , 107-132.	1.0	0
17	Application of Artificial Intelligence on Modeling and Optimization. Studies in Systems, Decision and Control, 2017, , 133-177.	1.0	1
18	Applied Problems. Studies in Systems, Decision and Control, 2017, , 179-183.	1.0	0

#	Article	IF	Citations
19	Off-road vehicle dynamics: Stability, ride comfort, vehicle performance and modeling. Advances in Mechanical Engineering, 2016, 8, 168781401666189.	1.6	1
20	APPRAISAL OF TAKAGIâ€"SUGENO TYPE NEURO-FUZZY NETWORK SYSTEM WITH A MODIFIED DIFFERENTIAL EVOLUTION METHOD TO PREDICT NONLINEAR WHEEL DYNAMICS CAUSED BY ROAD IRREGULARITIES. Transport, 2016, 31, 211-220.	1.2	8
21	The induced shock and impact force as affected by the obstacle geometric factors during tire-obstacle collision dynamics. Measurement: Journal of the International Measurement Confederation, 2016, 84, 47-55.	5.0	3
22	An overview on energy inputs and environmental emissions of grape production in West Azerbayjan of Iran. Renewable and Sustainable Energy Reviews, 2016, 54, 918-924.	16.4	26
23	Synthesis of the Resultant Force Position on a Radial Ply Tire of Off-Road Vehicle with a Comparative Trend Between Some Soft Computing Techniques. Neural Processing Letters, 2016, 43, 627-639.	3.2	3
24	Appraisal of artificial neural networks to the emission analysis and prediction of CO_2, soot, and NOx of n-heptane fueled engine. Journal of Cleaner Production, 2016, 112, 1729-1739.	9.3	60
25	Energy consumption analysis of wheat production in West Azarbayjan utilizing life cycle assessment (LCA). Renewable Energy, 2015, 74, 208-213.	8.9	39
26	On the modeling of convective heat transfer coefficient of hydrogen fueled diesel engine as affected by combustion parameters using a coupled numerical-artificial neural network approach. International Journal of Hydrogen Energy, 2015, 40, 4370-4381.	7.1	10
27	A comparative study between artificial neural networks and support vector regression for modeling of the dissipated energy through tire-obstacle collision dynamics. Energy, 2015, 89, 358-364.	8.8	16
28	Evaluating the effect of tire parameters on required drawbar pull energy model using adaptive neuro-fuzzy inference system. Energy, 2015, 85, 586-593.	8.8	27
29	Experimental analysis of the dissipated energy through tire-obstacle collision dynamics. Energy, 2015, 91, 573-578.	8.8	7
30	Appraisal of artificial neural network-genetic algorithm based model for prediction of the power provided by the agricultural tractors. Energy, 2015, 93, 1704-1710.	8.8	27
31	A numerical investigation on the wall heat flux in a DI diesel engine fueled with n-heptane using a coupled CFD and ANN approach. Fuel, 2015, 140, 227-236.	6.4	26
32	Prognostication of energy consumption and greenhouse gas (GHG) emissions analysis of apple production in West Azarbayjan of Iran using Artificial Neural Network. Journal of Cleaner Production, 2015, 87, 159-167.	9.3	73
33	Net traction of a driven wheel as affected by slippage, velocity and wheel load. Journal of the Saudi Society of Agricultural Sciences, 2015, 14, 167-171.	1.9	11
34	Relationships among the contact patch length and width, the tire deflection and the rolling resistance of a free-running wheel in a soil bin facility. Spanish Journal of Agricultural Research, 2015, 13, e0211.	0.6	14
35	Applying a supervised ANN (artificial neural network) approach to the prognostication of driven wheel energy efficiency indices. Energy, 2014, 68, 651-657.	8.8	46
36	Use of artificial neural networks for estimation of agricultural wheel traction force in soil bin. Neural Computing and Applications, 2014, 24, 1249-1258.	5.6	19

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37	A comparative trend in forecasting ability of artificial neural networks and regressive support vector machine methodologies for energy dissipation modeling of off-road vehicles. Energy, 2014, 66, 569-576.	8.8	41
38	Analyses of energy dissipation of run-off-road wheeled vehicles utilizing controlled soil bin facility environment. Energy, 2014, 66, 973-980.	8.8	23
39	Prognostication of vertical stress transmission in soil profile by adaptive neuro-fuzzy inference system based modeling approach. Measurement: Journal of the International Measurement Confederation, 2014, 50, 152-159.	5.0	15
40	Exhaust emissions prognostication for DI diesel group-hole injectors using a supervised artificial neural network approach. Fuel, 2014, 125, 81-89.	6.4	32
41	Effect of velocity, wheel load and multipass on soil compaction. Journal of the Saudi Society of Agricultural Sciences, 2014, 13, 57-66.	1.9	24
42	Energy loss optimization of run-off-road wheels applying imperialist competitive algorithm. Information Processing in Agriculture, 2014, 1, 57-65.	4.1	7
43	Multi-criteria optimization model to investigate the energy waste of off-road vehicles utilizing soil bin facility. Energy, 2014, 73, 762-770.	8.8	25
44	Modeling the impact of in-cylinder combustion parameters of DI engines on soot and NOx emissions at rated EGR levels using ANN approach. Energy Conversion and Management, 2014, 87, 1-9.	9.2	40
45	Investigating the effect of combustion properties on the accumulated heat release of DI engines at rated EGR levels using the ANN approach. Fuel, 2014, 137, 1-10.	6.4	19
46	On the modeling of energy efficiency indices of agricultural tractor driving wheels applying adaptive neuro-fuzzy inference system. Journal of Terramechanics, 2014, 56, 37-47.	3.1	33
47	Fuzzy logic system based prediction effort: A case study on the effects of tire parameters on contact area and contact pressure. Applied Soft Computing Journal, 2014, 14, 390-396.	7.2	23
48	Application of artificial neural networks for the prediction of traction performance parameters. Journal of the Saudi Society of Agricultural Sciences, 2014, 13, 35-43.	1.9	29
49	Wavelet neural network applied for prognostication of contact pressure between soil and driving wheel. Information Processing in Agriculture, 2014, 1, 51-56.	4.1	8
50	A knowledge-based Mamdani fuzzy logic prediction of the motion resistance coefficient in a soil bin facility for clay loam soil. Neural Computing and Applications, 2013, 23, 293-302.	5.6	8
51	Investigating the effect of velocity, inflation pressure, and vertical load on rolling resistance of a radial ply tire. Journal of Terramechanics, 2013, 50, 99-106.	3.1	98
52	Potential of functional image processing technique for the measurements of contact area and contact pressure of a radial ply tire in a soil bin testing facility. Measurement: Journal of the International Measurement Confederation, 2013, 46, 4038-4044.	5.0	29
53	Artificial Neural Network estimation of wheel rolling resistance in clay loam soil. Applied Soft Computing Journal, 2013, 13, 3544-3551.	7.2	30
54	A hybridized artificial neural network and imperialist competitive algorithm optimization approach for prediction of soil compaction in soil bin facility. Measurement: Journal of the International Measurement Confederation, 2013, 46, 2288-2299.	5.0	85