

Hairi Zamzuri

List of Publications by Year in descending order

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papers

1,437
citations

430442

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79
docs citations

79
times ranked

1026
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling and Control Strategies in Path Tracking Control for Autonomous Ground Vehicles: A Review of State of the Art and Challenges. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2017, 86, 225-254.	2.0	277
2	A design and modelling review of rotary magnetorheological damper. <i>Materials & Design</i> , 2013, 51, 575-591.	5.1	154
3	Design of magnetorheological damper with a combination of shear and squeeze modes. <i>Materials & Design</i> , 2014, 54, 87-95.	5.1	101
4	Design and performance analysis of a compact magnetorheological valve with multiple annular and radial gaps. <i>Journal of Intelligent Material Systems and Structures</i> , 2015, 26, 1038-1049.	1.4	55
5	A high performance magnetorheological valve with a meandering flow path. <i>Smart Materials and Structures</i> , 2014, 23, 065017.	1.8	54
6	A review of design and modeling of magnetorheological valve. <i>International Journal of Modern Physics B</i> , 2015, 29, 1530004.	1.0	54
7	Adaptive modified Stanley controller with fuzzy supervisory system for trajectory tracking of an autonomous armoured vehicle. <i>Robotics and Autonomous Systems</i> , 2018, 105, 94-111.	3.0	48
8	A Path Tracking Algorithm Using Future Prediction Control with Spike Detection for an Autonomous Vehicle Robot. <i>International Journal of Advanced Robotic Systems</i> , 2013, 10, 309.	1.3	43
9	Autonomous emergency braking system with potential field risk assessment for frontal collision mitigation. , 2017, , .		38
10	A phenomenological dynamic model of a magnetorheological damper using a neuro-fuzzy system. <i>Smart Materials and Structures</i> , 2013, 22, 125013.	1.8	35
11	Modular design of artificial potential field and nonlinear model predictive control for a vehicle collision avoidance system with move blocking strategy. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2018, 232, 1353-1373.	1.1	29
12	Cartographer SLAM Method for Optimization with an Adaptive Multi-Distance Scan Scheduler. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 347.	1.3	28
13	Testing and parametric modeling of magnetorheological valve with meandering flow path. <i>Nonlinear Dynamics</i> , 2016, 85, 287-302.	2.7	26
14	Potential Applications of Magnetorheological Elastomers. <i>Applied Mechanics and Materials</i> , 0, 663, 695-699.	0.2	24
15	Design of magnetorheological valve using serpentine flux path method. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2016, 50, 29-44.	0.3	24
16	A Review on the Control of the Mechanical Properties of Ankle Foot Orthosis for Gait Assistance. <i>Actuators</i> , 2019, 8, 10.	1.2	24
17	Assessment on Stationarity of EMG Signals with Different Windows Size During Isotonic Contractions. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 1050.	1.3	23
18	Modeling and simulation of vehicle steer by wire system. , 2012, , .		22

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19	Development of Estimation Force Feedback Torque Control Algorithm for Driver Steering Feel in Vehicle Steer by Wire System: Hardware in the Loop. International Journal of Vehicular Technology, 2015, 2015, 1-17.	1.1	20
20	Fluidâ€“Particle Separation of Magnetorheological Fluid in Squeeze Mode. Japanese Journal of Applied Physics, 2012, 51, 067301.	0.8	20
21	Vehicle Path Tracking Using Future Prediction Steering Control. Procedia Engineering, 2012, 41, 473-479.	1.2	19
22	Compressive and tensile stresses of magnetorheological fluids in squeeze mode. International Journal of Applied Electromagnetics and Mechanics, 2011, 36, 327-337.	0.3	18
23	Piecewise Trajectory Replanner for Highway Collision Avoidance Systems with Safe-Distance Based Threat Assessment Strategy and Nonlinear Model Predictive Control. Journal of Intelligent and Robotic Systems: Theory and Applications, 2018, 90, 363-385.	2.0	18
24	Application of an Active Anti-roll bar system for enhancing vehicle ride and handling. , 2012, , .		15
25	Vehicle collision avoidance motion planning strategy using artificial potential field with adaptive multiâ€“speed scheduler. IET Intelligent Transport Systems, 2020, 14, 1200-1209.	1.7	15
26	Experiments and modeling of a new magnetorheological cell under combination of flow and shear-flow modes. Journal of Non-Newtonian Fluid Mechanics, 2015, 215, 70-79.	1.0	14
27	Magnetic circuit optimization in designing Magnetorheological damper. Smart Structures and Systems, 2014, 14, 869-881.	1.9	14
28	PID controller optimization for a rotational inverted pendulum using genetic algorithm. , 2011, , .		13
29	Fluidâ€“Particle Separation of Magnetorheological Fluid in Squeeze Mode. Japanese Journal of Applied Physics, 2012, 51, 067301.	0.8	12
30	Parameters Consideration in Designing a Magnetorheological Damper. Key Engineering Materials, 0, 543, 487-490.	0.4	12
31	Bypass Rotary Magnetorheological Damper for Automotive Applications. Applied Mechanics and Materials, 0, 663, 685-689.	0.2	12
32	Improved Gender Recognition during Stepping Activity for Rehab Application Using the Combinatorial Fusion Approach of EMG and HRV. Applied Sciences (Switzerland), 2017, 7, 348.	1.3	11
33	A Feasibility Study of Magnetorheological Elastomer Base Isolator. Applied Mechanics and Materials, 2014, 660, 763-767.	0.2	10
34	Novel Motion Sickness Minimization Control via Fuzzy-PID Controller for Autonomous Vehicle. Applied Sciences (Switzerland), 2020, 10, 4769.	1.3	10
35	Artificial neural network for modelling of the correlation between lateral acceleration and head movement in a motion sickness study. IET Intelligent Transport Systems, 2019, 13, 340-346.	1.7	9
36	Robust attitude control design for a low-cost hexarotor micro aerial vehicle. Transactions of the Institute of Measurement and Control, 2016, 38, 701-721.	1.1	8

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37	Modeling of occupant's head movement behavior in motion sickness study via time delay neural network. Simulation, 2020, 96, 131-140.	1.1	8
38	Composite Nonlinear Feedback with Disturbance Observer for Active Front Steering. Indonesian Journal of Electrical Engineering and Computer Science, 2017, 7, 434.	0.7	8
39	Driver's Steering Behaviour Identification and Modelling in Near Rear-End collision. Telkomnika (Telecommunication Computing Electronics and Control), 2017, 15, 861.	0.6	8
40	Intelligent control approaches for tilting railway vehicles. Vehicle System Dynamics, 2006, 44, 834-842.	2.2	7
41	Tilt control design for high-speed trains: a study on multi-objective tuning approaches. Vehicle System Dynamics, 2008, 46, 535-547.	2.2	7
42	Tracking uncertain moving objects using dynamic track management in Multiple Hypothesis Tracking. , 2014, , .		7
43	Dynamic curvature path tracking control for autonomous vehicle: Experimental results. , 2014, , .		7
44	Fitting Distribution for Electromyography and Electroencephalography Signals Based on Goodness-of-Fit Tests. Procedia Computer Science, 2015, 76, 468-473.	1.2	6
45	Effect of leader information broadcasted throughout vehicle platoon in a constant spacing policy. , 2015, , .		6
46	Radial basis function neural network for head roll prediction modelling in a motion sickness study. Indonesian Journal of Electrical Engineering and Computer Science, 2019, 15, 1637.	0.7	6
47	Human gesture recognition using a low cost stereo vision in rehab activities. , 2015, , .		5
48	A review on threat assessment, path planning and path tracking strategies for collision avoidance systems of autonomous vehicles. International Journal of Vehicle Autonomous Systems, 2018, 14, 134.	0.2	5
49	LQG Control Design for Vehicle Active Anti-Roll Bar System. Applied Mechanics and Materials, 0, 663, 146-151.	0.2	4
50	Tracking human movement in office environment using video processing. , 2011, , .		3
51	Wheel Synchronization Control in Steer-by-Wire Using Composite Nonlinear Feedback. Applied Mechanics and Materials, 2014, 575, 762-765.	0.2	3
52	A GA-Weighted Adaptive Neuro-Fuzzy Model to Predict the Behaviour of Magnetorheological Damper. Applied Mechanics and Materials, 2014, 663, 203-207.	0.2	3
53	A New Concept of Multimode Magnetorheological Brake Design. Key Engineering Materials, 0, 605, 271-274.	0.4	3
54	The Variable Steering Ratio for Vehicle Steer by Wire System Using Hyperbolic Tangent Method. Applied Mechanics and Materials, 2014, 575, 781-784.	0.2	3

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55	Optimized Potential Radius Reference Generator Algorithm for Autonomous Vehicle Controller Development. Applied Mechanics and Materials, 2014, 663, 198-202.	0.2	3
56	Application of Serpentine Flux Path Method into a Magnetorheological Valve by FEMM Simulation. Advanced Materials Research, 0, 1123, 7-11.	0.3	3
57	Study on the potential application of electronic wedge brake for vehicle brake system. International Journal of Modelling, Identification and Control, 2015, 23, 306.	0.2	3
58	Modeling, validation and firing-on-the-move control of armored vehicles using active front-wheel steering. Journal of Defense Modeling and Simulation, 2016, 13, 253-267.	1.2	3
59	Optimisation of yaw rejection control for armoured vehicle using Taguchi method. International Journal of Heavy Vehicle Systems, 2016, 23, 60.	0.1	3
60	Controller Design for an Active Anti-roll Bar System. , 2019, , .		3
61	Antilock Braking System Slip Control Modeling Revisited. Applied Mechanics and Materials, 0, 393, 637-643.	0.2	2
62	Combined CNF with LQR in Improving Ride and Handling for Ground Vehicle. Applied Mechanics and Materials, 0, 575, 749-752.	0.2	2
63	The Design of Vehicle Active Front Steering Based on Steer by Wire System. Advanced Science Letters, 2013, 19, 61-65.	0.2	2
64	Fuzzy fractional PID gain controller for antilock braking system using an electronic wedge brake mechanism. International Journal of Vehicle Safety, 2018, 10, 97.	0.2	2
65	Hardware-in-the-loop simulation of trajectory following control for a light armoured vehicle optimised with particle swarm optimisation. International Journal of Heavy Vehicle Systems, 2019, 26, 663.	0.1	2
66	Performance Simulation on a Magnetorheological Valve Module Using Three Different Commercial Magnetorheological Fluid. Advanced Materials Research, 0, 1123, 35-41.	0.3	1
67	Investigation of Mechanical Performance of Squeezed Magnetorheological Fluid Using Response Surface Method. Advanced Materials Research, 2012, 445, 542-547.	0.3	0
68	Independent Torque Control of an Independent-Wheel-Drive Electric Vehicle. Applied Mechanics and Materials, 2014, 663, 493-497.	0.2	0
69	Modeling and Validation of Quarter Vehicle Traction Model. Applied Mechanics and Materials, 2014, 554, 489-493.	0.2	0
70	Development of PROTON Electric Vehicle Control Unit (eVCU) Using State Machine Deterministic Rule-Based Approach. Applied Mechanics and Materials, 0, 663, 532-538.	0.2	0
71	Selection of Materials in Designing Magnetorheological Brake. Applied Mechanics and Materials, 2014, 663, 700-704.	0.2	0
72	Experimental Investigation of Multiple Coils Magnetorheological Damper under Dynamic Loadings. Applied Mechanics and Materials, 0, 660, 863-867.	0.2	0

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73	Dynamic Track Management in MHT for Pedestrian Tracking Using Laser Range Finder. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-9.	0.6	0
74	Potential Implementation of Electronic Waste Based Magnetite Powder for Magnetorheological Elastomers. <i>Advanced Materials Research</i> , 0, 1123, 373-377.	0.3	0
75	Performance Assessment of an Integrated Radar Architecture for Multi-Types Frontal Object Detection for Autonomous Vehicle. , 2018, , .		0
76	Simulation study of magnetorheological testing cell design by incorporating all basic operating modes. <i>Smart Structures and Systems</i> , 2014, 14, 901-916.	1.9	0
77	The Fusion of HRV and EMG Signals for Automatic Gender Recognition during Stepping Exercise. <i>Telkomnika (Telecommunication Computing Electronics and Control)</i> , 2017, 15, 756.	0.6	0
78	Potential Field Based Motion Planning with Steering Control and DYC for ADAS. <i>Telkomnika (Telecommunication Computing Electronics and Control)</i> , 2017, 15, 853.	0.6	0
79	ADAPTIVE MODEL PREDICTIVE CONTROLLER FOR TRAJECTORY TRACKING AND OBSTACLE AVOIDANCE ON AUTONOMOUS VEHICLE. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2022, 84, 139-148.	0.3	0