

Khisbullah Hudha

List of Publications by Year in descending order

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102
papers

891
citations

687363

13
h-index

552781

26
g-index

102
all docs

102
docs citations

102
times ranked

592
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.	3.4	277
2	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.	5.1	48
3	Modelling and PID control of antilock braking system with wheel slip reduction to improve braking performance. <i>International Journal of Vehicle Safety</i> , 2013, 6, 265.	0.2	33
4	Effects of control techniques and damper constraint on the performance of a semi-active magnetorheological damper. <i>International Journal of Vehicle Autonomous Systems</i> , 2005, 3, 230.	0.2	31
5	Modelling, characterisation and force tracking control of a magnetorheological damper under harmonic excitation. <i>International Journal of Modelling, Identification and Control</i> , 2011, 13, 9.	0.2	31
6	Simulation and experimental evaluation on a skyhook policy-based fuzzy logic control for semi-active suspension system. <i>International Journal of Structural Engineering</i> , 2011, 2, 243.	0.4	31
7	Simulation and experimental studies on the behaviour of a magnetorheological damper under impact loading. <i>International Journal of Structural Engineering</i> , 2011, 2, 164.	0.4	25
8	Path tracking controller of an autonomous armoured vehicle using modified Stanley controller optimized with particle swarm optimization. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2018, 40, 1.	1.6	25
9	Modelling, validation and roll moment rejection control of pneumatically actuated active roll control for improving vehicle lateral dynamics performance. <i>International Journal of Engineering Systems Modelling and Simulation</i> , 2009, 1, 122.	0.2	21
10	Hardware-in-the-loop simulation of automatic steering control for lanekeeping manoeuvre: outer-loop and inner-loop control design. <i>International Journal of Vehicle Safety</i> , 2010, 5, 35.	0.2	18
11	Disturbance rejection control of a light armoured vehicle using stability augmentation based active suspension system. <i>International Journal of Heavy Vehicle Systems</i> , 2008, 15, 152.	0.2	16
12	Gain scheduling PID control with pitch moment rejection for reducing vehicle dive and squat. <i>International Journal of Vehicle Safety</i> , 2009, 4, 45.	0.2	16
13	Modelling, validation and adaptive PID control with pitch moment rejection of active suspension system for reducing unwanted vehicle motion in longitudinal direction. <i>International Journal of Vehicle Systems Modelling and Testing</i> , 2010, 5, 312.	0.1	14
14	Adaptive Fuzzy-PI Control for Active Front Steering System of Armoured Vehicles: Outer Loop Control Design for Firing On The Move System. <i>Strojniski Vestnik/Journal of Mechanical Engineering</i> , 2015, 61, 187-195.	1.1	14
15	Simulation and experimental investigation on adaptive multi-order proportional-integral control for pneumatically actuated active suspension system using knowledge-based fuzzy. <i>International Journal of Modelling, Identification and Control</i> , 2011, 14, 73.	0.2	13
16	Verification of 14DOF Full Vehicle Model Based on Steering Wheel Input. <i>Applied Mechanics and Materials</i> , 0, 165, 109-113.	0.2	11
17	Model-in-the-loop simulation of gap and torque tracking control using electronic wedge brake actuator. <i>International Journal of Vehicle Safety</i> , 2014, 7, 390.	0.2	11
18	Simulation and experimental investigation of vehicle braking system employing a fixed caliper based electronic wedge brake. <i>Simulation</i> , 2018, 94, 327-340.	1.8	11

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19	Non-parametric linearised data driven modelling and force tracking control of a magnetorheological damper. International Journal of Vehicle Design, 2008, 46, 250.	0.3	10
20	Modelling and trajectory following of an armoured vehicle. , 2016, , .		10
21	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.	0.2	10
22	Simulation and experimental evaluations on the performance of pneumatically actuated active roll control suspension system for improving vehicle lateral dynamics performance. International Journal of Vehicle Design, 2014, 64, 72.	0.3	9
23	Lateral suspension control of railway vehicle using semi-active magnetorheological damper. , 2011, , .		8
24	DEVELOPMENT AND VERIFICATION OF A 9-DOF ARMORED VEHICLE MODEL IN THE LATERAL AND LONGITUDINAL DIRECTIONS. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	8
25	Modeling and path tracking control of a tracked mobile robot. , 2018, , .		8
26	Hardware-in-the-loop simulation of automatic steering control: Outer-loop and inner-loop control design. , 2010, , .		7
27	A hybrid skyhook active force control for impact mitigation using magneto-rheological elastomer isolator. Smart Materials and Structures, 2021, 30, 025043.	3.5	7
28	Modelling and control of a Magneto-Rheological elastomer for impact reduction. Journal of Mechanical Engineering and Sciences, 2019, 13, 5259-5277.	0.6	7
29	Modelling and Control of a Fixed Calliper-Based Electronic Wedge Brake. Strojniski Vestnik/Journal of Mechanical Engineering, 2017, 63, 181-190.	1.1	7
30	Semi Active Roll Control Suspension (SARCS) System on a New Modified Half Car Model. , 0, , .		6
31	Proportional-integral sliding mode control of a hydraulically actuated active suspension system: force tracking and disturbance rejection control on non-linear quarter car model. International Journal of Vehicle Systems Modelling and Testing, 2007, 2, 391.	0.1	6
32	Design and clamping force modelling of electronic wedge brake system for automotive application. International Journal of Vehicle Systems Modelling and Testing, 2013, 8, 145.	0.1	6
33	Speed Tracking Control of Tracked Vehicle using PID Controller Optimized by Particle Swarm Optimization. , 2020, , .		6
34	Hardware in the loop simulation of active front wheel steering control for yaw disturbance rejection. International Journal of Vehicle Safety, 2011, 5, 356.	0.2	5
35	Modelling, Simulation and Validation of 9 DOF Vehicles Model for Automatic Steering System. Applied Mechanics and Materials, 0, 165, 192-196.	0.2	5
36	Usage of Magnetorheological Damper in Active Front Bumper System for Frontal Impact Protection. Applied Mechanics and Materials, 0, 315, 40-44.	0.2	5

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37	Development of target tracking control of gun-turret system. , 2015, , .		5
38	Modeling, Validation, and Control of Electronically Actuated Pitman Arm Steering for Armored Vehicle. International Journal of Vehicular Technology, 2016, 2016, 1-12.	1.1	5
39	Adaptive Trajectory Tracking Controller for an Armoured Vehicle: Hardware-in-the-loop Simulation. , 2018, , .		5
40	Modelling and validation of magneto-rheological fluid damper behaviour under impact loading using interpolated multiple adaptive neuro-fuzzy inference system. Multidiscipline Modeling in Materials and Structures, 2020, 16, 1395-1415.	1.3	5
41	Automatic steering control for lanekeeping manoeuvre: outer-loop and inner-loop control design. International Journal of Advanced Mechatronic Systems, 2010, 2, 350.	0.2	4
42	Active roll control suspension system for improving dynamics performance of passenger vehicle. , 2011, , .		4
43	Development of Antilock Braking System Based on Various Intelligent Control System. Applied Mechanics and Materials, 0, 229-231, 2394-2398.	0.2	4
44	Position tracking of automatic rack and pinion steering linkage system through hardware in the loop testing. , 2012, , .		4
45	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	4
46	Modelling and validation of a novel continuously variable transmission system using slider crank mechanism. International Journal of Engineering Systems Modelling and Simulation, 2018, 10, 49.	0.2	4
47	Development of path tracking control of a tracked vehicle for an unmanned ground vehicle. International Journal of Advanced Mechatronic Systems, 2020, 8, 136.	0.2	4
48	Path following control of tracked vehicle using modified sup controller optimized with particle swarm optimization (PSO). International Journal of Dynamics and Control, 2022, 10, 1461-1470.	2.5	4
49	Semi-active suspension control to improve ride and handling using magnetorheological (MR) damper. International Journal of Engineering Systems Modelling and Simulation, 2011, 3, 99.	0.2	3
50	Tractor-trailer modelling and validation. International Journal of Heavy Vehicle Systems, 2014, 21, 64.	0.2	3
51	MODELING AND VALIDATION OF ELECTRONIC WEDGE BRAKE MECHANISM FOR VEHICLE SAFETY SYSTEM. Jurnal Teknologi (Sciences and Engineering), 2015, 75, .	0.4	3
52	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
53	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.	1.7	3
54	Optimisation of yaw rejection control for armoured vehicle using Taguchi method. International Journal of Heavy Vehicle Systems, 2016, 23, 60.	0.2	3

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55	Development of Non-Parametric Model and Speed Tracking Control of Tracked Vehicle Electric Motor. , 2021, , .		3
56	Hardware-in-the-loop simulation of automatic steering control for double lane change and sine steer manoeuvres. International Journal of Vehicle Autonomous Systems, 2012, 10, 67.	0.2	2
57	Multibody Dynamics Models of Railway Vehicle Using Adams/Rail. Applied Mechanics and Materials, 0, 393, 644-648.	0.2	2
58	Hybrid Skyhook-Stability Augmentation System for Ride Quality Improvement of Railway Vehicle. Applied Mechanics and Materials, 2014, 663, 141-145.	0.2	2
59	Design and characterisation of magnetorheological brake system. International Journal of Engineering Systems Modelling and Simulation, 2015, 7, 62.	0.2	2
60	Skyhook control for 7 DOF ride model of armored vehicle due to road disturbance. , 2015, , .		2
61	Model-in-the-loop simulation of electronically controlled pitman arm steering mechanism for armored vehicle. , 2016, , .		2
62	Ratio Tracking Control of Slider Crank Based Electromechanical CVT System. , 2018, , .		2
63	Development and Verification of a 3 - DOF Trailer Model for Truck Vehicles. , 2020, , .		2
64	Development of Path Tracking Controller for An Autonomous Tracked Vehicle. , 2020, , .		2
65	Modeling and Verification of Truck Handling Model due to Steering Wheel Input. , 2020, , .		2
66	Vibration control of gun recoil system with magneto-rheological damper associated with adaptive hybrid skyhook active force control. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	1.6	2
67	A modified Odenthal rollover index algorithm for tractor-semitrailer using steering and vehicle speed inputs. International Journal of Heavy Vehicle Systems, 2021, 28, 563.	0.2	2
68	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
69	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.	0.2	2
70	Yaw stability control of single-trailer truck using steerable wheel at middle axle: hardware-in-the-loop simulation. International Journal of Dynamics and Control, 2022, 10, 2072-2094.	2.5	2
71	Automatic Steering Control for Lanekeeping Maneuver: Outer-Loop Control Design. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 685-690.	0.4	1
72	Vehicle Speed Control Using Gain Scheduling PID Controller. Applied Mechanics and Materials, 0, 165, 170-174.	0.2	1

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73	Active Front Wheel Steering System of 4 \times 4 armored vehicle: Rejection of unwanted firing disturbance. , 2015, , .		1
74	Modelling and verification of 5 degree of freedom vehicle longitudinal model. , 2015, , .		1
75	Improvement on ride and handling performance in HMMWV suspension control using dual acting semi-active suspension system. , 2015, , .		1
76	Active front wheel steering system for 14 DOF armoured vehicle model due to firing force disturbance. , 2015, , .		1
77	Identification of an optimum control algorithm to reject unwanted yaw effect on wheeled armored vehicle due to the recoil force. <i>Advances in Mechanical Engineering</i> , 2017, 9, 168781401668335.	1.6	1
78	Design and characterisation of external orifice semi-active suspension system for armoured vehicle application. <i>International Journal of Vehicle Noise and Vibration</i> , 2017, 13, 73.	0.1	1
79	A New Design of High Impact Load Rejection System Based Mechanical Linkages Using the Self-Restitution Mechanism. , 2018, , .		1
80	Design and Characterization of a Controllable Knee Braces with Magneto-Rheological Damper. , 2020, , .		1
81	Modelling and characterisation of a magneto-rheological elastomer isolator device under impact loadings using interpolated multiple adaptive neuro fuzzy inference system structure. <i>International Journal of Materials and Structural Integrity</i> , 2019, 13, 215.	0.1	1
82	Investigation on the Effect of the Ferrous Particles Size on the Impact Absorption Capability of Magnetorheological Elastomer. , 2022, , .		1
83	Hardware-in-the-Loop Simulation for Automatic Rack and Pinion Steering System. <i>Applied Mechanics and Materials</i> , 0, 229-231, 2135-2139.	0.2	0
84	Study the Potential Application of Smart Fluid Material and Force Tracking Control of Magnetorheological Damper. <i>Applied Mechanics and Materials</i> , 0, 699, 348-353.	0.2	0
85	Modelling and optimisation of active front wheel steering system control for armoured vehicle for firing disturbance rejection. <i>International Journal of Vehicle Autonomous Systems</i> , 2017, 13, 306.	0.2	0
86	Modeling and Implementation of Yaw Disturbance Rejection Control for an Instrumented Armoured Vehicle to Minimize the Effect of Unwanted Recoil Force. , 2018, , .		0
87	Firing-on-the-move stability system for armoured vehicle: design and optimisation of disturbance rejection control to reject recoil force. <i>International Journal of Heavy Vehicle Systems</i> , 2019, 26, 599.	0.2	0
88	Knowledge-Based Controller Optimised with Particle Swarm Optimisation for Adaptive Path Tracking Control of an Autonomous Heavy Vehicle. , 0, , .		0
89	Experimental of CVT Ratio Control Using Single Actuator Double Acting Electro-mechanical Continuously Variable Transmission. <i>Lecture Notes in Electrical Engineering</i> , 2022, , 659-668.	0.4	0
90	System configuration of instrumented half-scaled armoured vehicle to enhance handling performance due to lateral firing impact. <i>International Journal of Advanced Mechatronic Systems</i> , 2021, 9, 21.	0.2	0

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91	A new approach in modelling of hitch joint of a tractor semi-trailer using virtual Pacejka tyre model. International Journal of Heavy Vehicle Systems, 2021, 28, 262.	0.2	0
92	Effects of Supplier-Manufacturer Relationships on Supply-Chain Performance of Manufacturing Industries in Indonesia. Makara Journal of Technology, 2015, 19, 51.	0.3	0
93	Software and hardware configuration for steer by wire using rack-pinion system with ECU integration. International Journal of Advanced Mechatronic Systems, 2017, 7, 290.	0.2	0
94	Simulation and experimental investigations on radius control of a variable pulley for the new type of electromechanical CVT system. International Journal of Advanced Mechatronic Systems, 2017, 7, 378.	0.2	0
95	Design and characterisation of external orifice semi-active suspension system for armoured vehicle application. International Journal of Vehicle Noise and Vibration, 2017, 13, 73.	0.1	0
96	Modelling and optimisation of active front wheel steering system control for armoured vehicle for firing disturbance rejection. International Journal of Vehicle Autonomous Systems, 2017, 13, 306.	0.2	0
97	Development of estimated disturbance rejection feedback for an armoured vehicle using active front wheel steering. International Journal of Advanced Mechatronic Systems, 2017, 7, 134.	0.2	0
98	Roll Rejection Control of 3-Axle Semi-Trailer Truck using Steerable-wheel Optimized with Particle Swarm Optimization (PSO). , 2020, , .		0
99	Yaw Control of a 3-Axle Truck Semi-Trailer using Steerable-Wheel Optimized with Gravitational Search Algorithm. , 2020, , .		0
100	Preliminary Concept Modelling, Evaluation and Selection of Robotic Arm for Light Lifting Application. , 2021, , .		0
101	Impact Testing of Magnetorheological Elastomer Based Matrix Material and Magnetic Particle. , 2021, , .		0
102	Assessment of Various Additives in Magnetorheological-Elastomer for Impact Applications. , 2021, , .		0