

# Haiping Du

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/4042437/haiping-du-publications-by-year.pdf>

**Version:** 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

258  
papers

6,507  
citations

45  
h-index

71  
g-index

279  
ext. papers

7,824  
ext. citations

4  
avg, IF

6.48  
L-index

#	Paper	IF	Citations
258	Constrained nonlinear MPC for accelerated tracking piece-wise references and its applications to thermal systems. <i>Control Theory and Technology</i> , <b>2022</b> , 20, 69	1	0
257	A Pareto optimal information flow topology for control of connected autonomous vehicles. <i>IEEE Transactions on Intelligent Vehicles</i> , <b>2022</b> , 1-1	5	4
256	Decoupling vibration control of a semi-active electrically interconnected suspension based on mechanical hardware-in-the-loop. <i>Mechanical Systems and Signal Processing</i> , <b>2022</b> , 166, 108455	7.8	2
255	Variable Admittance Network with Indirect Energy Supply for Semiactive Vibration Control. <i>Lecture Notes in Electrical Engineering</i> , <b>2022</b> , 987-1002	0.2	
254	Multi-Objective Asymmetric Sliding Mode Control of Connected Autonomous Vehicles. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2022</b> , 1-16	6.1	1
253	Human-Machine Shared Driving: Challenges and Future Directions. <i>IEEE Transactions on Intelligent Vehicles</i> , <b>2022</b> , 1-1	5	2
252	Stability Analysis for Nonlinear Switched Singular Systems Via T-S Fuzzy Modeling. <i>Journal of the Franklin Institute</i> , <b>2022</b> , 359, 3717-3717	4	0
251	Investigation of a seat suspension installed with compact variable stiffness and damping rotary magnetorheological dampers. <i>Mechanical Systems and Signal Processing</i> , <b>2022</b> , 171, 108802	7.8	3
250	New stability conditions of CPSs with multiple transportation channels under DoS attacks. <i>Science China Information Sciences</i> , <b>2022</b> , 65, 1	3.4	0
249	Equipping New SMA Artificial Muscles With Controllable MRF Exoskeletons for Robotic Manipulators and Grippers. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2022</b> , 1-12	5.5	1
248	Multi-objective heterogeneous asymmetric sliding mode control of nonlinear connected autonomous vehicles. <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5	
247	Multiobjective Platooning of Connected and Automated Vehicles Using Distributed Economic Model Predictive Control. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2022</b> , 1-15	6.1	4
246	Automatic Driver Cognitive Fatigue Detection based on Upper Body Posture Variations. <i>Expert Systems With Applications</i> , <b>2022</b> , 117568	7.8	0
245	Control strategy for vibration suppression of a vehicle multibody system on a bumpy road. <i>Mechanism and Machine Theory</i> , <b>2022</b> , 174, 104891	4	0
244	Dynamic Event-triggered Control of Networked Control Systems with Uncertainty and Transmission Delay. <i>Journal of the Franklin Institute</i> , <b>2021</b> , 359, 477-477	4	1
243	. <i>IEEE Access</i> , <b>2021</b> , 9, 154143-154155	3.5	
242	Distributed multilane merging for connected autonomous vehicle platooning. <i>Science China Information Sciences</i> , <b>2021</b> , 64, 1	3.4	3

241	Dynamic output-feedback event-triggered H <sub>∞</sub> control for singular active seat suspension systems with a human body model. <i>IET Control Theory and Applications</i> , <b>2021</b> , 15, 594-603	2.5	5
240	Lexicographic multi-objective MPC for constrained nonlinear systems with changing objective prioritization. <i>Automatica</i> , <b>2021</b> , 125, 109433	5.7	2
239	Event-triggered control for nonlinear leaf spring hydraulic actuator suspension system with valve predictive management. <i>Information Sciences</i> , <b>2021</b> , 551, 184-204	7.7	9
238	PTV Longitudinal-Lateral State Estimation Considering Unknown Control Inputs and Uncertain Model Parameters. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 70, 4366-4376	6.8	2
237	Estimation of Vehicle Dynamic Parameters Based on the Two-Stage Estimation Method. <i>Sensors</i> , <b>2021</b> , 21,	3.8	3
236	Distributed Intersection Conflict Resolution for Multiple Vehicles Considering Longitudinal-Lateral Dynamics. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 70, 4166-4177	6.8	2
235	Improved Bidirectional RRT * Path Planning Method for Smart Vehicle. <i>Mathematical Problems in Engineering</i> , <b>2021</b> , 2021, 1-14	1.1	4
234	Friction observer-based hybrid controller for a seat suspension with semi-active electromagnetic damper. <i>Mechatronics</i> , <b>2021</b> , 76, 102568	3	1
233	Event-triggered H <sub>∞</sub> control for active seat suspension systems with state delay. <i>Transactions of the Institute of Measurement and Control</i> , <b>2021</b> , 43, 3428-3437	1.8	
232	A semi-active suspension using a magnetorheological damper with nonlinear negative-stiffness component. <i>Mechanical Systems and Signal Processing</i> , <b>2021</b> , 147, 107071	7.8	33
231	Event-triggered H <sub>∞</sub> control for active seat suspension systems based on relaxed conditions for stability. <i>Mechanical Systems and Signal Processing</i> , <b>2021</b> , 149, 107210	7.8	7
230	Moving Horizon H <sub>∞</sub> Estimation of Constrained Multisensor Systems With Uncertainties and Fading Channels. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-12	5.2	1
229	An Electromagnetic Variable Inertance and Damping Seat Suspension with Controllable Circuits. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	3
228	Short-Term Lateral Behavior Reasoning for Target Vehicles Considering Driver Preview Characteristic. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2021</b> , 1-10	6.1	2
227	A smart passive MR damper with a hybrid powering system for impact mitigation: An experimental study. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2021</b> , 32, 1452-1461	2.3	2
226	Game-Theory-Inspired Hierarchical Distributed Control Strategy for Cooperative Intersection Considering Priority Negotiation. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 70, 6438-6449	6.8	1
225	A semi-active variable equivalent stiffness and inertance device implemented by an electrical network. <i>Mechanical Systems and Signal Processing</i> , <b>2021</b> , 156, 107676	7.8	6
224	Event-triggered control for cyber-physical systems with multiple transportation channels and denial-of-service attacks. <i>Advanced Control for Applications</i> , <b>2021</b> , 3, e84	0.9	

223	Observer-Based Coordinated Control for Blended Braking System with Actuator Delay. <i>Actuators</i> , <b>2021</b> , 10, 193	2.4	0
222	Quality-related locally weighted soft sensing for non-stationary processes by a supervised Bayesian network with latent variables. <i>Frontiers of Information Technology and Electronic Engineering</i> , <b>2021</b> , 22, 1234-1246	2.2	0
221	. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 7575-7588	11.9	7
220	In-Wheel Motor Vibration Control for Distributed-Driven Electric Vehicles: A Review. <i>IEEE Transactions on Transportation Electrification</i> , <b>2021</b> , 7, 2864-2880	7.6	7
219	Driver Mental Fatigue Detection Based on Head Posture Using New Modified reLU-BiLSTM Deep Neural Network. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2021</b> , 1-13	6.1	11
218	Output Reachable Set Estimation for Singular Seat Suspension Systems <b>2021</b> , 143-149		
217	Multi-Objective Comprehensive Control of Trajectory Tracking for Four-In-Wheel-Motor Drive Electric Vehicle With Differential Steering. <i>IEEE Access</i> , <b>2021</b> , 9, 62137-62154	3.5	3
216	A Three-Dimensional Integrated Non-Linear Coordinate Control Framework for Combined Yaw- and Roll-Stability Control during Tyre Blow-Out.. <i>Sensors</i> , <b>2021</b> , 21,	3.8	2
215	Takagi-Sugeno Fuzzy Model-Based Semi-Active Control for the Seat Suspension With an Electrorheological Damper. <i>IEEE Access</i> , <b>2020</b> , 8, 98027-98037	3.5	4
214	Research on performance of vehicle semi-active suspension applied magnetorheological damper based on linear quadratic Gaussian control. <i>Noise and Vibration Worldwide</i> , <b>2020</b> , 51, 119-126	0.8	5
213	Admissibilisation of singular interval type-2 TakagiSugeno fuzzy systems with time delay. <i>IET Control Theory and Applications</i> , <b>2020</b> , 14, 1022-1032	2.5	18
212	Sub-full Model-Based Heterogeneous Sensor Fusion for Lateral State Estimation of Preceding Target Vehicles. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2020</b> , 25, 1335-1345	5.5	3
211	Controllable magnetorheological fluid damper-based seat suspension <b>2020</b> , 37-56		3
210	Self-powered MR seat suspension <b>2020</b> , 57-77		
209	Variable equivalent inertance seat suspension <b>2020</b> , 121-167		
208	Single-DOF active seat suspension <b>2020</b> , 171-179		
207	Multiple-DOF active seat suspension <b>2020</b> , 181-208		
206	Vibration control of a negative stiffness mechanism-based semiactive seat suspension system <b>2020</b> , 275-293		

205	A generalized method for three-dimensional dynamic analysis of a full-vehicle model. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , <b>2020</b> , 234, 2485-2499	1.4	2
204	Variable equivalent stiffness seat suspension <b>2020</b> , 79-119		
203	Active seat suspension control algorithm <b>2020</b> , 209-242		1
202	Hybrid active and semi-active seat suspension <b>2020</b> , 245-265		
201	An effective projection-based nonlinear adaptive control strategy for heavy vehicle suspension with hysteretic leaf spring. <i>Nonlinear Dynamics</i> , <b>2020</b> , 100, 451-473	5	7
200	Controllable Electrically Interconnected Suspension System for Improving Vehicle Vibration Performance. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2020</b> , 25, 859-871	5.5	14
199	A Takagi-Sugeno Fuzzy Model-Based Control Strategy for Variable Stiffness and Variable Damping Suspension. <i>IEEE Access</i> , <b>2020</b> , 8, 71628-71641	3.5	1
198	Actuator fault tolerant control for steer-by-wire systems. <i>International Journal of Control</i> , <b>2020</b> , 1-12	1.5	5
197	Singular System-Based Approach for Active Vibration Control of Vehicle Seat Suspension. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2020</b> , 142,	1.6	3
196	Driver's Foot Trajectory Tracking for Safe Maneuverability Using New Modified reLU-BiLSTM Deep Neural Network <b>2020</b> ,		2
195	Unsupervised Patterns of Driver Mental Fatigue State Based on Head Posture Using Gaussian Mixture Model <b>2020</b> ,		3
194	A novel negative stiffness magnetic spring design for vehicle seat suspension system. <i>Mechatronics</i> , <b>2020</b> , 68, 102370	3	8
193	Reference-free approach for mitigating human-machine conflicts in shared control of automated vehicles. <i>IET Control Theory and Applications</i> , <b>2020</b> , 14, 2752-2763	2.5	10
192	A controllable mechanical motion rectifier-based semi-active magnetorheological inerter for vibration control. <i>Smart Materials and Structures</i> , <b>2020</b> , 29, 114005	3.4	4
191	Development of a smart rubber joint for train using shear thickening fluids. <i>Smart Materials and Structures</i> , <b>2020</b> , 29, 055036	3.4	4
190	The variable resonance magnetorheological pendulum tuned mass damper: Mathematical modelling and seismic experimental studies. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2020</b> , 31, 263-276	2.3	5
189	Semiactively Controllable Vehicle Seat Suspension System With Negative Stiffness Magnetic Spring. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2020</b> , 1-1	5.5	1
188	Rear-Steering Based Decentralized Control of Four-Wheel Steering Vehicle. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 10899-10913	6.8	4

187	. <i>IEEE Access</i> , <b>2020</b> , 8, 212055-212065	3.5	0
186	Delta Operator-Based Model Predictive Control With Fault Compensation for Steer-by-Wire Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 50, 2257-2272	7.3	12
185	Four-Wheel Electric Braking System Configuration With New Braking Torque Distribution Strategy for Improving Energy Recovery Efficiency. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2020</b> , 21, 87-103	6.1	12
184	An Electromagnetic Variable Stiffness Device for Semiactive Seat Suspension Vibration Control. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 6773-6784	8.9	12
183	A magnetorheological elastomer rail damper for wideband attenuation of rail noise and vibration. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2020</b> , 31, 220-228	2.3	8
182	An iterative observer-based fault estimation for discrete-time T-S fuzzy systems. <i>International Journal of Systems Science</i> , <b>2020</b> , 51, 1007-1018	2.3	5
181	A rotary variable admittance device and its application in vehicle seat suspension vibration control. <i>Journal of the Franklin Institute</i> , <b>2019</b> , 356, 7873-7895	4	21
180	Liquid metal-filled magnetorheological elastomer with positive piezoconductivity. <i>Nature Communications</i> , <b>2019</b> , 10, 1300	17.4	167
179	Experimental testing and modelling of a rotary variable stiffness and damping shock absorber using magnetorheological technology. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2019</b> , 30, 1453-1465	2.3	14
178	Fault tolerant steer-by-wire systems: An overview. <i>Annual Reviews in Control</i> , <b>2019</b> , 47, 98-111	10.3	24
177	Non-linear tyre modelBased non-singular terminal sliding mode observer for vehicle velocity and side-slip angle estimation. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , <b>2019</b> , 233, 38-54	1.4	6
176	A variable resonance magnetorheological-fluid-based pendulum tuned mass damper for seismic vibration suppression. <i>Mechanical Systems and Signal Processing</i> , <b>2019</b> , 116, 530-544	7.8	39
175	Integrated Motion Control Scheme for Four-Wheel-Independent Vehicles Considering Critical Conditions. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 7488-7497	6.8	13
174	An electromagnetic variable inertance device for seat suspension vibration control. <i>Mechanical Systems and Signal Processing</i> , <b>2019</b> , 133, 106259	7.8	32
173	. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2019</b> , 24, 2019-2030	5.5	12
172	Investigating The Detection of Intention Signal During Different Exercise Protocols in Robot-Assisted Hand Movement of Stroke Patients and Healthy Subjects Using EEG-BCI System. <i>Advances in Science, Technology and Engineering Systems</i> , <b>2019</b> , 4, 300-307	0.3	3
171	Output feedback H control for active suspension of in-wheel motor driven electric vehicle with control faults and input delay. <i>ISA Transactions</i> , <b>2019</b> , 92, 94-108	5.5	23
170	Integrated trajectory planning and control for obstacle avoidance manoeuvre using non-linear vehicle MP algorithm. <i>IET Intelligent Transport Systems</i> , <b>2019</b> , 13, 385-397	2.4	3

169	Multiobjective predictive cruise control for connected vehicle systems on urban conditions with InPA-SQP. <i>Optimal Control Applications and Methods</i> , <b>2019</b> , 40, 479-498	1.7	17
168	Multiple Vehicle Tracking Based on Labeled Multiple Bernoulli Filter Using Pre-Clustered Laser Range Finder Data. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 10382-10393	6.8	14
167	Robust Adaptive Sliding Mode PI Control for Active Vehicle Seat Suspension Systems <b>2019</b> ,		2
166	Coupling effect between road excitation and an in-wheel switched reluctance motor on vehicle ride comfort and active suspension control. <i>Journal of Sound and Vibration</i> , <b>2019</b> , 443, 683-702	3.9	32
165	A New Generation of Magnetorheological Vehicle Suspension System With Tunable Stiffness and Damping Characteristics. <i>IEEE Transactions on Industrial Informatics</i> , <b>2019</b> , 15, 4696-4708	11.9	29
164	Fault tolerant tracking of Mars entry vehicles via fuzzy control approach. <i>Fuzzy Sets and Systems</i> , <b>2019</b> , 371, 123-135	3.7	5
163	Fault Tolerant Sliding Mode Predictive Control for Uncertain Steer-by-Wire System. <i>IEEE Transactions on Cybernetics</i> , <b>2019</b> , 49, 261-272	10.2	52
162	Observer-Based Fault-Tolerant Controller for Uncertain Steer-by-Wire Systems Using the Delta Operator. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2018</b> , 23, 2587-2598	5.5	27
161	Vibration mitigation for in-wheel switched reluctance motor driven electric vehicle with dynamic vibration absorbing structures. <i>Journal of Sound and Vibration</i> , <b>2018</b> , 419, 249-267	3.9	92
160	Development of magnetorheological elastomersBased tuned mass damper for building protection from seismic events. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2018</b> , 29, 1777-1789	2.3	25
159	State and Parameter Estimation of EVs <b>2018</b> , 369-407		1
158	Vibration control of an energy regenerative seat suspension with variable external resistance. <i>Mechanical Systems and Signal Processing</i> , <b>2018</b> , 106, 94-113	7.8	48
157	Delay-Dependent Fault-Tolerant Shape Control for Stochastic Distribution Systems. <i>IEEE Access</i> , <b>2018</b> , 6, 12727-12735	3.5	1
156	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 8080-8091	8.9	37
155	Adaptive Sliding Mode Control for TakagiSugeno Fuzzy Systems and Its Applications. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2018</b> , 26, 531-542	8.3	138
154	Overcoming the conflict requirement between high-speed stability and curving trafficability of the train using an innovative magnetorheological elastomer rubber joint. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2018</b> , 29, 214-222	2.3	6
153	Development of a nonlinear adaptive absorber based on magnetorheological elastomer. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2018</b> , 29, 194-204	2.3	14
152	The Combined Effects of Adaptive Control and Virtual Reality on Robot-Assisted Fine Hand Motion Rehabilitation in Chronic Stroke Patients: A Case Study. <i>Journal of Stroke and Cerebrovascular Diseases</i> , <b>2018</b> , 27, 221-228	2.8	15

151	Delta Operator-Based Fault Estimation and Fault-Tolerant Model Predictive Control for Steer-By-Wire Systems. <i>IEEE Transactions on Control Systems Technology</i> , <b>2018</b> , 26, 1810-1817	4.8	35
150	Control of a multiple-DOF vehicle seat suspension with roll and vertical vibration. <i>Journal of Sound and Vibration</i> , <b>2018</b> , 435, 170-191	3.9	20
149	Development and evaluation of an MRE-based absorber with two individually controllable natural frequencies. <i>Smart Materials and Structures</i> , <b>2018</b> , 27, 095002	3.4	7
148	Reduction of low frequency vibration of truck driver and seating system through system parameter identification, sensitivity analysis and active control. <i>Mechanical Systems and Signal Processing</i> , <b>2018</b> , 105, 16-35	7.8	26
147	Integrated Dynamics Control and Energy Efficiency Optimization for Overactuated Electric Vehicles. <i>Asian Journal of Control</i> , <b>2018</b> , 20, 1952-1966	1.7	6
146	Integrated active and semi-active control for seat suspension of a heavy duty vehicle. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2018</b> , 29, 91-100	2.3	16
145	Investigating Electrode Sites for Intention Detection During Robot Based Hand Movement Using EEG-BCI System <b>2018</b> ,		2
144	FDI Based Fault-Tolerant Control for Steer-by-Wire Systems <b>2018</b> ,		1
143	Delta Operator Based Fault Detection Filter Design for Uncertain Steer-by-Wire Systems with Time Delay <b>2018</b> ,		1
142	Driver intention based coordinate control of regenerative and plugging braking for electric vehicles with in-wheel PMSMs. <i>IET Intelligent Transport Systems</i> , <b>2018</b> , 12, 1300-1311	2.4	18
141	Dynamically integrated spatiotemporal-based trajectory planning and control for autonomous vehicles. <i>IET Intelligent Transport Systems</i> , <b>2018</b> , 12, 1271-1282	2.4	9
140	. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2018</b> , 23, 1787-1799	5.5	11
139	Adaptive Fuzzy Control for Nonstrict-Feedback Systems With Input Saturation and Output Constraint. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2017</b> , 47, 1-12	7.3	273
138	High-throughput sheathless and three-dimensional microparticle focusing using a microchannel with arc-shaped groove arrays. <i>Scientific Reports</i> , <b>2017</b> , 7, 41153	4.9	23
137	Flow rate-insensitive microparticle separation and filtration using a microchannel with arc-shaped groove arrays. <i>Microfluidics and Nanofluidics</i> , <b>2017</b> , 21, 1	2.8	14
136	Disturbance observer based Takagi-Sugeno fuzzy control for an active seat suspension. <i>Mechanical Systems and Signal Processing</i> , <b>2017</b> , 93, 515-530	7.8	66
135	Advanced vehicle suspension with variable stiffness and damping MR damper <b>2017</b> ,		6
134	Vibration reduction of seat suspension using observer based terminal sliding mode control with acceleration data fusion. <i>Mechatronics</i> , <b>2017</b> , 44, 71-83	3	31



133	A Potential Field Approach-Based Trajectory Control for Autonomous Electric Vehicles With In-Wheel Motors. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2017</b> , 18, 2044-2055	6.1	54
132	Clinical effectiveness of combined virtual reality and robot assisted fine hand motion rehabilitation in subacute stroke patients. <i>IEEE International Conference on Rehabilitation Robotics</i> , <b>2017</b> , 2017, 511-515	1.3	9
131	Design of adaptive control and virtual reality-based fine hand motion rehabilitation system and its effects in subacute stroke patients. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , <b>2017</b> , 1-9	0.9	3
130	Development of an MR seat suspension with self-powered generation capability. <i>Smart Materials and Structures</i> , <b>2017</b> , 26, 085025	3.4	19
129	A torsional MRE joint for a C-shaped robotic leg. <i>Smart Materials and Structures</i> , <b>2017</b> , 26, 015002	3.4	12
128	Two-layer structure based adaptive estimation for vehicle mass and road slope under longitudinal motion. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2017</b> , 95, 439-455	4.6	25
127	Takagi-Sugeno Fuzzy Control for Semi-Active Vehicle Suspension With a Magnetorheological Damper and Experimental Validation. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2017</b> , 22, 291-300	5.5	78
126	Reliable fuzzy H <sub>∞</sub> control for active suspension of in-wheel motor driven electric vehicles with dynamic damping. <i>Mechanical Systems and Signal Processing</i> , <b>2017</b> , 87, 365-383	7.8	60
125	Development of an isolator working with magnetorheological elastomers and fluids. <i>Mechanical Systems and Signal Processing</i> , <b>2017</b> , 83, 371-384	7.8	50
124	Enhanced ride performance of electric vehicle suspension system based on genetic algorithm optimization <b>2017</b> ,		2
123	Seated Whole-Body Vibration Analysis, Technologies, and Modeling: A Survey. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2016</b> , 46, 725-739	7.3	31
122	Wave-Variable-Based Passivity Control of Four-Channel Nonlinear Bilateral Teleoperation System Under Time Delays. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2016</b> , 21, 238-253	5.5	52
121	An active seat suspension design for vibration control of heavy-duty vehicles. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , <b>2016</b> , 35, 264-278	1.5	57
120	Development of a novel magnetophoresis-assisted hydrophoresis microdevice for rapid particle ordering. <i>Biomedical Microdevices</i> , <b>2016</b> , 18, 54	3.7	13
119	Trajectory control for autonomous electric vehicles with in-wheel motors based on a dynamics model approach. <i>IET Intelligent Transport Systems</i> , <b>2016</b> , 10, 318-330	2.4	28
118	State of the art of control schemes for smart systems featuring magneto-rheological materials. <i>Smart Materials and Structures</i> , <b>2016</b> , 25, 043001	3.4	64
117	Fault-tolerant control of electric vehicles with in-wheel motors using actuator-grouping sliding mode controllers. <i>Mechanical Systems and Signal Processing</i> , <b>2016</b> , 72-73, 462-485	7.8	55
116	Development of a novel multi-layer MRE isolator for suppression of building vibrations under seismic events. <i>Mechanical Systems and Signal Processing</i> , <b>2016</b> , 70-71, 811-820	7.8	66

115	Enhanced Vehicle Handling and Ride through Anti-Pitch Anti-Roll Hydraulically Interconnected Suspension <b>2016</b> ,		1
114	Model predictive control-based lane change control system for an autonomous vehicle <b>2016</b> ,		8
113	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 63, 4357-4366	8.9	70
112	Transparent four-channel bilateral control architecture using modified wave variable controllers under time delays. <i>Robotica</i> , <b>2016</b> , 34, 859-875	2.1	10
111	An Improved Model Predictive Control Scheme for the PWM Rectifier-Inverter System Based on Power-Balancing Mechanism. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 1-1	8.9	12
110	Optimal Distribution Control Of Non-Linear Tire Force Of Electric Vehicles With In-Wheel Motors. <i>Asian Journal of Control</i> , <b>2016</b> , 18, 69-88	1.7	17
109	Adaptive Sliding Mode Control for Interval Type-2 Fuzzy Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2016</b> , 46, 1654-1663	7.3	226
108	An innovative MRE absorber with double natural frequencies for wide frequency bandwidth vibration absorption. <i>Smart Materials and Structures</i> , <b>2016</b> , 25, 055035	3.4	14
107	Active control of an innovative seat suspension system with acceleration measurement based friction estimation. <i>Journal of Sound and Vibration</i> , <b>2016</b> , 384, 28-44	3.9	57
106	A seat suspension with a rotary magnetorheological damper for heavy duty vehicles. <i>Smart Materials and Structures</i> , <b>2016</b> , 25, 105032	3.4	62
105	Development of a novel variable stiffness and damping magnetorheological fluid damper. <i>Smart Materials and Structures</i> , <b>2015</b> , 24, 085021	3.4	39
104	An adaptive tuned vibration absorber based on multilayered MR elastomers. <i>Smart Materials and Structures</i> , <b>2015</b> , 24, 045045	3.4	48
103	Performance evaluation and comparison of magnetorheological elastomer absorbers working in shear and squeeze modes. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2015</b> , 26, 1757-1763	2.3	35
102	Side-slip angle estimation and stability control for a vehicle with a non-linear tyre model and a varying speed. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , <b>2015</b> , 229, 486-505	1.4	25
101	Tracking control of wheel slip ratio with velocity estimation for vehicle anti-lock braking system <b>2015</b> ,		6
100	A Compact Variable Stiffness and Damping Shock Absorber for Vehicle Suspension. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2015</b> , 20, 2621-2629	5.5	60
99	Development of an MRE adaptive tuned vibration absorber with self-sensing capability. <i>Smart Materials and Structures</i> , <b>2015</b> , 24, 095012	3.4	18
98	Stability enhancement of magnetic levitation ball system with two controlled electromagnets <b>2015</b> ,		3

97	Reinforcement learning neural network (RLNN) based adaptive control of fine hand motion rehabilitation robot <b>2015</b> ,		9
96	Real-time identification of vehicle motion-modes using neural networks. <i>Mechanical Systems and Signal Processing</i> , <b>2015</b> , 50-51, 632-645	7.8	12
95	Development of a linear damper working with magnetorheological shear thickening fluids. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2015</b> , 26, 1811-1817	2.3	22
94	Framework for implementation of higher-level control for over-actuated electric vehicles <b>2015</b> ,		1
93	Takagi-sugeno fuzzy H <sub>∞</sub> tracking control for steer-by-wire systems <b>2015</b> ,		2
92	Enhancing flexibility of the dual-master-dual-slave multilateral teleoperation system <b>2015</b> ,		6
91	Horizontal vibration reduction of a seat suspension using negative changing stiffness magnetorheological elastomer isolators. <i>International Journal of Vehicle Design</i> , <b>2015</b> , 68, 104	2.4	38
90	Tubular linear motor position detection by hall-effect sensors <b>2015</b> ,		5
89	Side-slip angle estimation based lateral dynamics control for omni-directional vehicles with optimal steering angle and traction/brake torque distribution. <i>Mechatronics</i> , <b>2015</b> , 30, 348-362	3	31
88	Model-based Takagi-Sugeno fuzzy approach for vehicle longitudinal velocity estimation during braking <b>2014</b> ,		3
87	Robust tracking control of vehicle lateral dynamics. <i>International Journal of Vehicle Design</i> , <b>2014</b> , 65, 314	2.4	4
86	A novel magnetorheological elastomer isolator with negative changing stiffness for vibration reduction. <i>Smart Materials and Structures</i> , <b>2014</b> , 23, 105023	3.4	62
85	Dynamics analysis of an omni-directional vehicle. <i>International Journal of Automotive Technology</i> , <b>2014</b> , 15, 387-398	1.6	12
84	Comparative study of vehicle tyre-road friction coefficient estimation with a novel cost-effective method. <i>Vehicle System Dynamics</i> , <b>2014</b> , 52, 1066-1098	2.8	25
83	Damping of low-inertia machine oscillations using Takagi-Sugeno fuzzy stabiliser tuned by genetic algorithm optimisation to improve system stability. <i>IET Generation, Transmission and Distribution</i> , <b>2014</b> , 8, 339-352	2.5	9
82	The development of an adaptive tuned magnetorheological elastomer absorber working in squeeze mode. <i>Smart Materials and Structures</i> , <b>2014</b> , 23, 075009	3.4	49
81	On-chip high-throughput manipulation of particles in a dielectrophoresis-active hydrophoretic focuser. <i>Scientific Reports</i> , <b>2014</b> , 4, 5060	4.9	35
80	Fabrication and Characterization of Magneto-Rheological Shear-Stiffened Elastomers. <i>Frontiers in Materials</i> , <b>2014</b> , 1,	4	2

79	Motion-mode energy method for vehicle dynamics analysis and control. <i>Vehicle System Dynamics</i> , <b>2014</b> , 52, 1-25	2.8	25
78	Switched control of vehicle suspension based on motion-mode detection. <i>Vehicle System Dynamics</i> , <b>2014</b> , 52, 142-165	2.8	40
77	Kinematics-based parameter-varying observer design for sideslip angle estimation <b>2014</b> ,		2
76	A state-of-the-art review on magnetorheological elastomer devices. <i>Smart Materials and Structures</i> , <b>2014</b> , 23, 123001	3.4	314
75	Making a hydrophoretic focuser tunable using a diaphragm. <i>Biomicrofluidics</i> , <b>2014</b> , 8, 064115	3.2	7
74	Simultaneous Optimization of Damper Parameters and Controllers for Building Vibration Attenuation over Finite Frequency Band. <i>Asian Journal of Control</i> , <b>2013</b> , 15, 1589-1598	1.7	4
73	Development of a torsional dynamic absorber using a magnetorheological elastomer for vibration reduction of a powertrain test rig. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2013</b> , 24, 2036-2044	2.3	39
72	Implementation of Adaptive Neuro Fuzzy Inference System controller on magneto rheological damper suspension <b>2013</b> ,		5
71	Magnetorheological Elastomers and Their Applications. <i>Advanced Structured Materials</i> , <b>2013</b> , 357-374	0.6	44
70	H <sub>∞</sub> state-feedback control of bilateral teleoperation systems with asymmetric time-varying delays. <i>IET Control Theory and Applications</i> , <b>2013</b> , 7, 594-605	2.5	10
69	Displacement profile estimation using low cost inertial motion sensors with applications to sporting and rehabilitation exercises <b>2013</b> ,		3
68	Robust control of vehicle suspension with electrohydraulic actuator. <i>International Journal of Vehicle Performance</i> , <b>2013</b> , 1, 157	0.9	
67	Vibration Control of Vehicle Seat Integrating with Chassis Suspension and Driver Body Model. <i>Advances in Structural Engineering</i> , <b>2013</b> , 16, 1-9	1.9	19
66	Direct voltage control of magnetorheological damper for vehicle suspensions. <i>Smart Materials and Structures</i> , <b>2013</b> , 22, 105016	3.4	43
65	Experimental study and modeling of a novel magnetorheological elastomer isolator. <i>Smart Materials and Structures</i> , <b>2013</b> , 22, 117001	3.4	77
64	Fuzzy control of hydraulically interconnected suspension with configuration switching <b>2013</b> ,		5
63	Study of the temperature effect of shear thickening fluid <b>2013</b> ,		3
62	A novel cost effective method for vehicle tire-road friction coefficient estimation <b>2013</b> ,		8

61	Improving the critical speeds of high-speed trains using magnetorheological technology. <i>Smart Materials and Structures</i> , <b>2013</b> , 22, 115012	3.4	31
60	Semi-active control of an integrated full-car suspension with seat suspension and driver body model using ER dampers. <i>International Journal of Vehicle Design</i> , <b>2013</b> , 63, 159	2.4	6
59	Study of shear-stiffened elastomers <b>2013</b> ,		1
58	Robust sampled-data control of structures subject to parameter uncertainties and actuator saturation. <i>Engineering Structures</i> , <b>2012</b> , 36, 39-48	4.7	19
57	Integrated Seat and Suspension Control for a Quarter Car With Driver Model. <i>IEEE Transactions on Vehicular Technology</i> , <b>2012</b> , 61, 3893-3908	6.8	83
56	Study of shear-stiffened elastomers. <i>Smart Materials and Structures</i> , <b>2012</b> , 21, 125009	3.4	25
55	Robust yaw moment control for vehicle handling and stability improvement <b>2012</b> ,		1
54	Damping of low-frequency oscillations and improving power system stability via auto-tuned PI stabilizer using TakagiSugeno fuzzy logic. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2012</b> , 38, 72-83	5.1	24
53	Development and simulation evaluation of a magnetorheological elastomer isolator for seat vibration control. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2012</b> , 23, 1041-1048	2.3	86
52	Experimental investigation of the vibration characteristics of a magnetorheological elastomer sandwich beam under non-homogeneous small magnetic fields. <i>Smart Materials and Structures</i> , <b>2011</b> , 20, 127001	3.4	50
51	Robust Vehicle Stability Control Based on Sideslip Angle Estimation <b>2011</b> ,		3
50	APPLICATION OF A MAGNETORHEOLOGICAL ELASTOMER TO DEVELOP A TORSIONAL DYNAMIC ABSORBER FOR VIBRATION REDUCTION OF POWERTRAIN <b>2011</b> ,		3
49	Microstructure and magnetorheology of graphite-based MR elastomers. <i>Rheologica Acta</i> , <b>2011</b> , 50, 825-836	3.6	77
48	Actuator saturation control of uncertain structures with input time delay. <i>Journal of Sound and Vibration</i> , <b>2011</b> , 330, 4399-4412	3.9	32
47	An adaptive tunable vibration absorber using a new magnetorheological elastomer for vehicular powertrain transient vibration reduction. <i>Smart Materials and Structures</i> , <b>2011</b> , 20, 015019	3.4	60
46	Velocity-dependent robust control for improving vehicle lateral dynamics. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2011</b> , 19, 454-468	8.4	59
45	Robust control of vehicle electrorheological suspension subject to measurement noises. <i>Vehicle System Dynamics</i> , <b>2011</b> , 49, 257-275	2.8	15
44	Semi-active variable stiffness vibration control of vehicle seat suspension using an MR elastomer isolator. <i>Smart Materials and Structures</i> , <b>2011</b> , 20, 105003	3.4	100

43	Investigation into untripped rollover of light vehicles in the modified fishhook and the sine manoeuvres, part II: effects of vehicle inertia property, suspension and tyre characteristics. <i>Vehicle System Dynamics</i> , <b>2011</b> , 49, 949-968	2.8	10
42	A dual adaptive tunable vibration absorber using MREs for vehicle powertrain vibration control <b>2010</b> ,		5
41	Robust Fuzzy Control of an Active Magnetic Bearing Subject to Voltage Saturation. <i>IEEE Transactions on Control Systems Technology</i> , <b>2010</b> , 18, 164-169	4.8	28
40	Fuzzy tracking control design using observer-based stabilizing compensator for nonlinear systems <b>2010</b> ,		4
39	Robust active suspension design subject to vehicle inertial parameter variations. <i>International Journal of Automation and Computing</i> , <b>2010</b> , 7, 419-427	3.5	3
38	Stabilizing Vehicle Lateral Dynamics With Considerations of Parameter Uncertainties and Control Saturation Through Robust Yaw Control. <i>IEEE Transactions on Vehicular Technology</i> , <b>2010</b> , 59, 2593-2597	6.8	104
37	Robust controller design for vehicle semi-active suspensions with electrorheological dampers <b>2009</b> ,		2
36	Model-based Fuzzy Control for Buildings Installed with Magneto-rheological Dampers. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2009</b> , 20, 1091-1105	2.3	13
35	Static Output Feedback Control for Electrohydraulic Active Suspensions via T <sub>B</sub> Fuzzy Model Approach. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2009</b> , 131,	1.6	15
34	A dynamic absorber with a soft magnetorheological elastomer for powertrain vibration suppression. <i>Smart Materials and Structures</i> , <b>2009</b> , 18, 074009	3.4	69
33	Controller design for time-delay systems using genetic algorithms. <i>Engineering Applications of Artificial Intelligence</i> , <b>2009</b> , 22, 397-400	7.2	3
32	Fuzzy Control for Nonlinear Uncertain Electrohydraulic Active Suspensions With Input Constraint. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2009</b> , 17, 343-356	8.3	162
31	Design and experimental investigation of Demand Dependent Active Suspension for vehicle rollover control <b>2009</b> ,		7
30	Time series prediction using evolving radial basis function networks with new encoding scheme. <i>Neurocomputing</i> , <b>2008</b> , 71, 1388-1400	5.4	52
29	Constrained H <sub>∞</sub> control of active suspension for a half-car model with a time delay in control. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , <b>2008</b> , 222, 665-684	1.4	33
28	Active Vibration Control of Structures Subject to Parameter Uncertainties and Actuator Delay. <i>JVC/Journal of Vibration and Control</i> , <b>2008</b> , 14, 689-709	2	19
27	Designing H <sub>∞</sub> static-output feedback controller for vehicle suspensions using linear matrix inequalities and genetic algorithms. <i>Vehicle System Dynamics</i> , <b>2008</b> , 46, 385-412	2.8	24
26	Robust stability control of vehicle rollover subject to actuator time delay. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , <b>2008</b> , 222, 163-174 <sup>1</sup>		3

25	Investigation into untripped rollover of light vehicles in the modified fishhook and the sine maneuvers. Part I: Vehicle modelling, roll and yaw instability. <i>Vehicle System Dynamics</i> , <b>2008</b> , 46, 271-293 <sup>2.8</sup>	43
24	Multiobjective Static Output Feedback Control Design for Vehicle Suspensions. <i>Journal of System Design and Dynamics</i> , <b>2008</b> , 2, 228-239	5
23	Mixed H <sub>2</sub> /H <sub>∞</sub> control of tall buildings with reduced-order modelling technique. <i>Structural Control and Health Monitoring</i> , <b>2008</b> , 15, 64-89	4.5 14
22	Parameter-dependent input-delayed control of uncertain vehicle suspensions. <i>Journal of Sound and Vibration</i> , <b>2008</b> , 317, 537-556	3.9 69
21	Application of evolving Takagi-Sugeno fuzzy model to nonlinear system identification. <i>Applied Soft Computing Journal</i> , <b>2008</b> , 8, 676-686	7.5 89
20	H <sub>∞</sub> control for buildings with time delay in control via linear matrix inequalities and genetic algorithms. <i>Engineering Structures</i> , <b>2008</b> , 30, 81-92	4.7 50
19	control of active vehicle suspensions with actuator time delay. <i>Journal of Sound and Vibration</i> , <b>2007</b> , 301, 236-252	3.9 188
18	Constrained H <sub>2</sub> approximation of multiple input-output delay systems using genetic algorithm. <i>ISA Transactions</i> , <b>2007</b> , 46, 211-21	5.5 3
17	Energy-to-peak control of seismic-excited buildings with input delay. <i>Structural Control and Health Monitoring</i> , <b>2007</b> , 14, 947-970	4.5 17
16	COMPUTATION OF ROBUST H <sub>∞</sub> CONTROLLERS FOR TIME-DELAY SYSTEMS USING GENETIC ALGORITHMS. <i>Control and Intelligent Systems</i> , <b>2007</b> , 35,	2
15	Modelling of a magneto-rheological damper by evolving radial basis function networks. <i>Engineering Applications of Artificial Intelligence</i> , <b>2006</b> , 19, 869-881	7.2 58
14	Energy-to-peak performance controller design for building via static output feedback under consideration of actuator saturation. <i>Computers and Structures</i> , <b>2006</b> , 84, 2277-2290	4.5 28
13	Semi-active control of vehicle suspension with magneto-rheological dampers. <i>Journal of Sound and Vibration</i> , <b>2005</b> , 283, 981-996	3.9 246
12	Design of Non-Fragile H <sub>∞</sub> Controller for Active Vehicle Suspensions. <i>JVC/Journal of Vibration and Control</i> , <b>2005</b> , 11, 225-243	2 43
11	H <sub>∞</sub> disturbance attenuation for uncertain mechanical systems with input delay. <i>Transactions of the Institute of Measurement and Control</i> , <b>2005</b> , 27, 37-52	1.8 35
10	Dynamic behavior of MR suspensions at moderate flux densities. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2004</b> , 371, 9-15	5.3 48
9	Non-fragile H <sub>∞</sub> vibration control for uncertain structural systems. <i>Journal of Sound and Vibration</i> , <b>2004</b> , 273, 1031-1045	3.9 32
8	H <sub>∞</sub> Controller Design of Mixed Eigenstructure Assignment and H <sub>∞</sub> Filter for Flexible Structure Vibration Control. <i>Intelligent Automation and Soft Computing</i> , <b>2003</b> , 9, 97-102	2.6 2

7	LPV technique for the rejection of sinusoidal disturbance with time-varying frequency. <i>IET Control Theory and Applications</i> , <b>2003</b> , 150, 132-138		21
6	Non-fragile output feedback H <sub>∞</sub> vehicle suspension control using genetic algorithm. <i>Engineering Applications of Artificial Intelligence</i> , <b>2003</b> , 16, 667-680	7.2	94
5	Nonlinear rheological behavior of magnetorheological fluids: step-strain experiments. <i>Smart Materials and Structures</i> , <b>2002</b> , 11, 209-217	3.4	32
4	Reconstructing cylinder pressure from vibration signals based on radial basis function networks. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , <b>2001</b> , 215, 761-767	1.4	20
3	Vibration suppression investigation and parametric design of tri-axle straight heavy truck with pitch-resistant hydraulically interconnected suspension. <i>JVC/Journal of Vibration and Control</i> , 1077546327110396		1
2	Fault-tolerant prescribed performance control of active suspension based on approximation-free method. <i>Vehicle System Dynamics</i> , 1-26	2.8	0
1	Innovative variable stiffness and variable damping magnetorheological actuation system for robotic arm positioning. <i>Journal of Intelligent Material Systems and Structures</i> , 1045389X2210994	2.3	0