

# Haiping Du

## List of Publications by Citations

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258  
papers

6,507  
citations

45  
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279  
ext. papers

7,824  
ext. citations

4  
avg, IF

6.48  
L-index

#	Paper	IF	Citations
258	A state-of-the-art review on magnetorheological elastomer devices. <i>Smart Materials and Structures</i> , <b>2014</b> , 23, 123001	3.4	314
257	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
256	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
255	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
254	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
253	Liquid metal-filled magnetorheological elastomer with positive piezoconductivity. <i>Nature Communications</i> , <b>2019</b> , 10, 1300	17.4	167
252	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
251	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
250	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
249	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
248	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
247	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
246	Application of evolving TakagiSugeno fuzzy model to nonlinear system identification. <i>Applied Soft Computing Journal</i> , <b>2008</b> , 8, 676-686	7.5	89
245	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
244	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
243	TakagiSugeno 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
242	Experimental study and modeling of a novel magnetorheological elastomer isolator. <i>Smart Materials and Structures</i> , <b>2013</b> , 22, 117001	3.4	77

241	Microstructure and magnetorheology of graphite-based MR elastomers. <i>Rheologica Acta</i> , <b>2011</b> , 50, 825-836	8.3	77
240	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 63, 4357-4366	8.9	70
239	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
238	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
237	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
236	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
235	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
234	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
233	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
232	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
231	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
230	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
229	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
228	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
227	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
226	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
225	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
224	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

223	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
222	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
221	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
220	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
219	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
218	H $\infty$ 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
217	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
216	An adaptive tuned vibration absorber based on multilayered MR elastomers. <i>Smart Materials and Structures</i> , <b>2015</b> , 24, 045045	3.4	48
215	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
214	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
213	Magnetorheological Elastomers and Their Applications. <i>Advanced Structured Materials</i> , <b>2013</b> , 357-374	0.6	44
212	Direct voltage control of magnetorheological damper for vehicle suspensions. <i>Smart Materials and Structures</i> , <b>2013</b> , 22, 105016	3.4	43
211	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
210	Design of Non-Fragile H $\infty$ Controller for Active Vehicle Suspensions. <i>JVC/Journal of Vibration and Control</i> , <b>2005</b> , 11, 225-243	2	43
209	Switched control of vehicle suspension based on motion-mode detection. <i>Vehicle System Dynamics</i> , <b>2014</b> , 52, 142-165	2.8	40
208	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
207	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
206	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 <sup>2.3</sup>		39

205	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
204	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 8080-8091	8.9	37
203	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
202	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
201	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
200	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
199	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
198	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
197	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
196	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
195	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
194	Nonlinear rheological behavior of magnetorheological fluids: step-strain experiments. <i>Smart Materials and Structures</i> , <b>2002</b> , 11, 209-217	3.4	32
193	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
192	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
191	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
190	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
189	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
188	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

187	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
186	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
185	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
184	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
183	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
182	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
181	Development of magnetorheological elastomers based 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
180	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
179	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
178	Motion-mode energy method for vehicle dynamics analysis and control. <i>Vehicle System Dynamics</i> , <b>2014</b> , 52, 1-25	2.8	25
177	Study of shear-stiffened elastomers. <i>Smart Materials and Structures</i> , <b>2012</b> , 21, 125009	3.4	25
176	Fault tolerant steer-by-wire systems: An overview. <i>Annual Reviews in Control</i> , <b>2019</b> , 47, 98-111	10.3	24
175	Damping of low-frequency oscillations and improving power system stability via auto-tuned PI stabilizer using Takagi-Sugeno fuzzy logic. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2012</b> , 38, 72-83	5.1	24
174	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
173	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
172	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
171	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
170	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

169	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
168	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
167	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
166	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
165	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
164	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
163	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
162	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
161	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
160	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
159	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
158	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
157	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
156	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
155	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
154	Static Output Feedback Control for Electrohydraulic Active Suspensions via TB Fuzzy Model Approach. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2009</b> , 131,	1.6	15
153	Robust control of vehicle electrorheological suspension subject to measurement noises. <i>Vehicle System Dynamics</i> , <b>2011</b> , 49, 257-275	2.8	15
152	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

151	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
150	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
149	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
148	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
147	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
146	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
145	Development of a novel magnetophoresis-assisted hydrophoresis microdevice for rapid particle ordering. <i>Biomedical Microdevices</i> , <b>2016</b> , 18, 54	3.7	13
144	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
143	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
142	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
141	. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2019</b> , 24, 2019-2030	5.5	12
140	Dynamics analysis of an omni-directional vehicle. <i>International Journal of Automotive Technology</i> , <b>2014</b> , 15, 387-398	1.6	12
139	A torsional MRE joint for a C-shaped robotic leg. <i>Smart Materials and Structures</i> , <b>2017</b> , 26, 015002	3.4	12
138	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
137	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
136	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
135	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
134	. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2018</b> , 23, 1787-1799	5.5	11



133	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
132	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
131	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
130	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
129	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
128	Reinforcement learning neural network (RLNN) based adaptive control of fine hand motion rehabilitation robot <b>2015</b> ,		9
127	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
126	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 <sup>1-3</sup>	1.3	9
125	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
124	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
123	A novel cost effective method for vehicle tire-road friction coefficient estimation <b>2013</b> ,		8
122	A novel negative stiffness magnetic spring design for vehicle seat suspension system. <i>Mechatronics</i> , <b>2020</b> , 68, 102370	3	8
121	Model predictive control-based lane change control system for an autonomous vehicle <b>2016</b> ,		8
120	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
119	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
118	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
117	Making a hydrophoretic focuser tunable using a diaphragm. <i>Biomicrofluidics</i> , <b>2014</b> , 8, 064115	3.2	7
116	Design and experimental investigation of Demand Dependent Active Suspension for vehicle rollover control <b>2009</b> ,		7

115	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
114	. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 7575-7588	11.9	7
113	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
112	Advanced vehicle suspension with variable stiffness and damping MR damper <b>2017</b> ,		6
111	Tracking control of wheel slip ratio with velocity estimation for vehicle anti-lock braking system <b>2015</b> ,		6
110	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
109	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
108	Enhancing flexibility of the dual-master-dual-slave multilateral teleoperation system <b>2015</b> ,		6
107	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
106	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
105	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
104	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
103	Actuator fault tolerant control for steer-by-wire systems. <i>International Journal of Control</i> , <b>2020</b> , 1-12	1.5	5
102	Implementation of Adaptive Neuro Fuzzy Inference System controller on magneto rheological damper suspension <b>2013</b> ,		5
101	Tubular linear motor position detection by hall-effect sensors <b>2015</b> ,		5
100	Fuzzy control of hydraulically interconnected suspension with configuration switching <b>2013</b> ,		5
99	A dual adaptive tunable vibration absorber using MREs for vehicle powertrain vibration control <b>2010</b> ,		5
98	Multiobjective Static Output Feedback Control Design for Vehicle Suspensions. <i>Journal of System Design and Dynamics</i> , <b>2008</b> , 2, 228-239		5

97	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
96	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
95	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
94	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
93	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
92	Robust tracking control of vehicle lateral dynamics. <i>International Journal of Vehicle Design</i> , <b>2014</b> , 65, 314	2.4	4
91	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
90	Fuzzy tracking control design using observer-based stabilizing compensator for nonlinear systems <b>2010</b> ,		4
89	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
88	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
87	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
86	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
85	Improved Bidirectional RRT * Path Planning Method for Smart Vehicle. <i>Mathematical Problems in Engineering</i> , <b>2021</b> , 2021, 1-14	1.1	4
84	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
83	Stability enhancement of magnetic levitation ball system with two controlled electromagnets <b>2015</b> ,		3
82	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
81	Controllable magnetorheological fluid damper-based seat suspension <b>2020</b> , 37-56		3
80	Model-based Takagi-Sugeno fuzzy approach for vehicle longitudinal velocity estimation during braking <b>2014</b> ,		3

79	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
78	Displacement profile estimation using low cost inertial motion sensors with applications to sporting and rehabilitation exercises <b>2013</b> ,		3
77	Study of the temperature effect of shear thickening fluid <b>2013</b> ,		3
76	Robust Vehicle Stability Control Based on Sideslip Angle Estimation <b>2011</b> ,		3
75	APPLICATION OF A MAGNETORHEOLOGICAL ELASTOMER TO DEVELOP A TORSIONAL DYNAMIC ABSORBER FOR VIBRATION REDUCTION OF POWERTRAIN <b>2011</b> ,		3
74	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
73	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
72	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
71	Constrained H2 approximation of multiple input-output delay systems using genetic algorithm. <i>ISA Transactions</i> , <b>2007</b> , 46, 211-21	5.5	3
70	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
69	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
68	Distributed multilane merging for connected autonomous vehicle platooning. <i>Science China Information Sciences</i> , <b>2021</b> , 64, 1	3.4	3
67	Unsupervised Patterns of Driver Mental Fatigue State Based on Head Posture Using Gaussian Mixture Model <b>2020</b> ,		3
66	Estimation of Vehicle Dynamic Parameters Based on the Two-Stage Estimation Method. <i>Sensors</i> , <b>2021</b> , 21,	3.8	3
65	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
64	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
63	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
62	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

61	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 <sup>1,4</sup>		2
60	Enhanced ride performance of electric vehicle suspension system based on genetic algorithm optimization <b>2017</b> ,		2
59	Takagi-sugeno fuzzy H <sub>∞</sub> tracking control for steer-by-wire systems <b>2015</b> ,		2
58	Fabrication and Characterization of Magneto-Rheological Shear-Stiffened Elastomers. <i>Frontiers in Materials</i> , <b>2014</b> , 1,	4	2
57	Kinematics-based parameter-varying observer design for sideslip angle estimation <b>2014</b> ,		2
56	Robust controller design for vehicle semi-active suspensions with electrorheological dampers <b>2009</b> ,		2
55	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
54	Driver's Foot Trajectory Tracking for Safe Maneuverability Using New Modified reLU-BiLSTM Deep Neural Network <b>2020</b> ,		2
53	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
52	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
51	Lexicographic multi-objective MPC for constrained nonlinear systems with changing objective prioritization. <i>Automatica</i> , <b>2021</b> , 125, 109433	5.7	2
50	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
49	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
48	Robust Adaptive Sliding Mode PI Control for Active Vehicle Seat Suspension Systems <b>2019</b> ,		2
47	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
46	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
45	Investigating Electrode Sites for Intention Detection During Robot Based Hand Movement Using EEG-BCI System <b>2018</b> ,		2
44	Human-Machine Shared Driving: Challenges and Future Directions. <i>IEEE Transactions on Intelligent Vehicles</i> , <b>2022</b> , 1-1	5	2

43	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
42	Active seat suspension control algorithm <b>2020</b> , 209-242		1
41	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
40	State and Parameter Estimation of EVs <b>2018</b> , 369-407		1
39	Delay-Dependent Fault-Tolerant Shape Control for Stochastic Distribution Systems. <i>IEEE Access</i> , <b>2018</b> , 6, 12727-12735	3.5	1
38	Framework for implementation of higher-level control for over-actuated electric vehicles <b>2015</b> ,		1
37	Robust yaw moment control for vehicle handling and stability improvement <b>2012</b> ,		1
36	Study of shear-stiffened elastomers <b>2013</b> ,		1
35	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
34	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
33	Friction observer-based hybrid controller for a seat suspension with semi-active electromagnetic damper. <i>Mechatronics</i> , <b>2021</b> , 76, 102568	3	1
32	Enhanced Vehicle Handling and Ride through Anti-Pitch Anti-Roll Hydraulically Interconnected Suspension <b>2016</b> ,		1
31	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
30	FDI Based Fault-Tolerant Control for Steer-by-Wire Systems <b>2018</b> ,		1
29	Delta Operator Based Fault Detection Filter Design for Uncertain Steer-by-Wire Systems with Time Delay <b>2018</b> ,		1
28	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
27	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> , 107754632110396		1
26	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

25	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
24	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
23	. <i>IEEE Access</i> , <b>2020</b> , 8, 212055-212065	3.5	0
22	Observer-Based Coordinated Control for Blended Braking System with Actuator Delay. <i>Actuators</i> , <b>2021</b> , 10, 193	2.4	0
21	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
20	Fault-tolerant prescribed performance control of active suspension based on approximation-free method. <i>Vehicle System Dynamics</i> , 1-26	2.8	0
19	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
18	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
17	Automatic Driver Cognitive Fatigue Detection based on Upper Body Posture Variations. <i>Expert Systems With Applications</i> , <b>2022</b> , 117568	7.8	0
16	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
15	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
14	Self-powered MR seat suspension <b>2020</b> , 57-77		
13	Variable equivalent inertance seat suspension <b>2020</b> , 121-167		
12	Single-DOF active seat suspension <b>2020</b> , 171-179		
11	Multiple-DOF active seat suspension <b>2020</b> , 181-208		
10	Vibration control of a negative stiffness mechanism-based semiactive seat suspension system <b>2020</b> , 275-293		
9	Variable equivalent stiffness seat suspension <b>2020</b> , 79-119		
8	Hybrid active and semi-active seat suspension <b>2020</b> , 245-265		

7	Robust control of vehicle suspension with electrohydraulic actuator. <i>International Journal of Vehicle Performance</i> , <b>2013</b> , 1, 157	0.9
6	. <i>IEEE Access</i> , <b>2021</b> , 9, 154143-154155	3.5
5	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
4	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
3	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
2	Output Reachable Set Estimation for Singular Seat Suspension Systems <b>2021</b> , 143-149	
1	Multi-objective heterogeneous asymmetric sliding mode control of nonlinear connected autonomous vehicles. <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5