# Haiping Du

List of Publications by Year
in descending order



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|---|---|---|---|
| 278 papers | 9,245 citations | 36203 51 h-index | 56606 83 g-index |
| 279 all docs | 279 docs citations | 279 times ranked | 5621 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A state-of-the-art review on magnetorheological elastomer devices. Smart Materials and Structures, 2014, 23, 123001. | 1.8 | 438 |
| 2 | Adaptive Fuzzy Control for Nonstrict-Feedback Systems With Input Saturation and Output Constraint. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 1-12. | 5.9 | 360 |
| 3 | Semi-active control of vehicle suspension with magneto-rheological dampers. Journal of Sound and Vibration, 2005, 283, 981-996. | 2.1 | 290 |
| 4 | Adaptive Sliding Mode Control for Interval Type-2 Fuzzy Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 1654-1663. | 5.9 | 267 |
| 5 | Liquid metal-filled magnetorheological elastomer with positive piezoconductivity. Nature Communications, 2019, 10, 1300. | 5.8 | 267 |
| 6 | control of active vehicle suspensions with actuator time delay. Journal of Sound and Vibration, 2007, 301, 236-252. | 2.1 | 232 |
| 7 | Fuzzy Control for Nonlinear Uncertain Electrohydraulic Active Suspensions With Input Constraint. IEEE Transactions on Fuzzy Systems, 2009, 17, 343-356. | 6.5 | 208 |
| 8 | Adaptive Sliding Mode Control for Takagiâ€"Sugeno Fuzzy Systems and Its Applications. IEEE Transactions on Fuzzy Systems, 2018, 26, 531-542. | 6.5 | 177 |
| 9 | Semi-active variable stiffness vibration control of vehicle seat suspension using an MR elastomer isolator. Smart Materials and Structures, 2011, 20, 105003. | 1.8 | 142 |
| 10 | Stabilizing Vehicle Lateral Dynamics With Considerations of Parameter Uncertainties and Control Saturation Through Robust Yaw Control. IEEE Transactions on Vehicular Technology, 2010, 59, 2593-2597. | 3.9 | 132 |
| 11 | Non-fragile output feedback Hâˆž vehicle suspension control using genetic algorithm. Engineering Applications of Artificial Intelligence, 2003, 16, 667-680. | 4.3 | 116 |
| 12 | Application of evolving Takagiâ€"Sugeno fuzzy model to nonlinear system identification. Applied Soft Computing Journal, 2008, 8, 676-686. | 4.1 | 116 |
| 13 | Experimental study and modeling of a novel magnetorheological elastomer isolator. Smart Materials and Structures, 2013, 22, 117001. | 1.8 | 111 |
| 14 | Integrated Seat and Suspension Control for a Quarter Car With Driver Model. IEEE Transactions on Vehicular Technology, 2012, 61, 3893-3908. | 3.9 | 108 |
| 15 | Vibration mitigation for in-wheel switched reluctance motor driven electric vehicle with dynamic vibration absorbing structures. Journal of Sound and Vibration, 2018, 419, 249-267. | 2.1 | 108 |
| 16 | Development and simulation evaluation of a magnetorheological elastomer isolator for seat vibration control. Journal of Intelligent Material Systems and Structures, 2012, 23, 1041-1048. | 1.4 | 107 |
| 17 | Takagiâ€"Sugeno Fuzzy Control for Semi-Active Vehicle Suspension With a Magnetorheological Damper and Experimental Validation. IEEE/ASME Transactions on Mechatronics, 2017, 22, 291-300. | 3.7 | 107 |
| 18 | A Novel Observer Design for Simultaneous Estimation of Vehicle Steering Angle andÂSideslip Angle. IEEE Transactions on Industrial Electronics, 2016, 63, 4357-4366. | 5.2 | 105 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | State of the art of control schemes for smart systems featuring magneto-rheological materials. Smart Materials and Structures, 2016, 25, 043001. | 1.8 | 103 |
| 20 | Microstructure and magnetorheology of graphite-based MR elastomers. Rheologica Acta, 2011, 50, 825-836. | 1.1 | 96 |
| 21 | Development of a novel multi-layer MRE isolator for suppression of building vibrations under seismic events. Mechanical Systems and Signal Processing, 2016, 70-71, 811-820. | 4.4 | 96 |
| 22 | A semi-active suspension using a magnetorheological damper with nonlinear negative-stiffness component. Mechanical Systems and Signal Processing, 2021, 147, 107071. | 4.4 | 95 |
| 23 | Disturbance observer based Takagi-Sugeno fuzzy control for an active seat suspension. Mechanical Systems and Signal Processing, 2017, 93, 515-530. | 4.4 | 94 |
| 24 | A novel magnetorheological elastomer isolator with negative changing stiffness for vibration reduction. Smart Materials and Structures, 2014, 23, 105023. | 1.8 | 88 |
| 25 | Parameter-dependent input-delayed control of uncertain vehicle suspensions. Journal of Sound and Vibration, 2008, 317, 537-556. | 2.1 | 87 |
| 26 | A seat suspension with a rotary magnetorheological damper for heavy duty vehicles. Smart Materials and Structures, 2016, 25, 105032. | 1.8 | 83 |
| 27 | Reliable fuzzy Hâˆž control for active suspension of in-wheel motor driven electric vehicles with dynamic damping. Mechanical Systems and Signal Processing, 2017, 87, 365-383. | 4.4 | 83 |
| 28 | Active control of an innovative seat suspension system with acceleration measurement based friction estimation. Journal of Sound and Vibration, 2016, 384, 28-44. | 2.1 | 81 |
| 29 | Fault Tolerant Sliding Mode Predictive Control for Uncertain Steer-by-Wire System. IEEE Transactions on Cybernetics, 2019, 49, 261-272. | 6.2 | 80 |
| 30 | A dynamic absorber with a soft magnetorheological elastomer for powertrain vibration suppression. Smart Materials and Structures, 2009, 18, 074009. | 1.8 | 78 |
| 31 | A Compact Variable Stiffness and Damping Shock Absorber for Vehicle Suspension. IEEE/ASME Transactions on Mechatronics, 2015, 20, 2621-2629. | 3.7 | 77 |
| 32 | Velocity-dependent robust control for improving vehicle lateral dynamics. Transportation Research Part C: Emerging Technologies, 2011, 19, 454-468. | 3.9 | 76 |
| 33 | An active seat suspension design for vibration control of heavy-duty vehicles. Journal of Low Frequency Noise Vibration and Active Control, 2016, 35, 264-278. | 1.3 | 75 |
| 34 | Wave-Variable-Based Passivity Control of Four-Channel Nonlinear Bilateral Teleoperation System Under Time Delays. IEEE/ASME Transactions on Mechatronics, 2016, 21, 238-253. | 3.7 | 75 |
| 35 | Fault-tolerant control of electric vehicles with in-wheel motors using actuator-grouping sliding mode controllers. Mechanical Systems and Signal Processing, 2016, 72-73, 462-485. | 4.4 | 73 |
| 36 | An adaptive tunable vibration absorber using a new magnetorheological elastomer for vehicular powertrain transient vibration reduction. Smart Materials and Structures, 2011, 20, 015019. | 1.8 | 70 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | A Potential Field Approach-Based Trajectory Control for Autonomous Electric Vehicles With In-Wheel Motors. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 2044-2055. | 4.7 | 70 |
| 38 | Modelling of a magneto-rheological damper by evolving radial basis function networks. Engineering Applications of Artificial Intelligence, 2006, 19, 869-881. | 4.3 | 68 |
| 39 | control for buildings with time delay in control via linear matrix inequalities and genetic algorithms. Engineering Structures, 2008, 30, 81-92. | 2.6 | 64 |
| 40 | The development of an adaptive tuned magnetorheological elastomer absorber working in squeeze mode. Smart Materials and Structures, 2014, 23, 075009. | 1.8 | 64 |
| 41 | An adaptive tuned vibration absorber based on multilayered MR elastomers. Smart Materials and Structures, 2015, 24, 045045. | 1.8 | 64 |
| 42 | Magnetorheological Elastomers and Their Applications. Advanced Structured Materials, 2013, , 357-374. | 0.3 | 63 |
| 43 | An Energy Saving Variable Damping Seat Suspension System With Regeneration Capability. IEEE Transactions on Industrial Electronics, 2018, 65, 8080-8091. | 5.2 | 63 |
| 44 | Time series prediction using evolving radial basis function networks with new encoding scheme. Neurocomputing, 2008, 71, 1388-1400. | 3.5 | 62 |
| 45 | Vibration control of an energy regenerative seat suspension with variable external resistance. Mechanical Systems and Signal Processing, 2018, 106, 94-113. | 4.4 | 62 |
| 46 | Experimental investigation of the vibration characteristics of a magnetorheological elastomer sandwich beam under non-homogeneous small magnetic fields. Smart Materials and Structures, 2011, 20, 127001. | 1.8 | 60 |
| 47 | A variable resonance magnetorheological-fluid-based pendulum tuned mass damper for seismic vibration suppression. Mechanical Systems and Signal Processing, 2019, 116, 530-544. | 4.4 | 60 |
| 48 | Development of an isolator working with magnetorheological elastomers and fluids. Mechanical Systems and Signal Processing, 2017, 83, 371-384. | 4.4 | 59 |
| 49 | Direct voltage control of magnetorheological damper for vehicle suspensions. Smart Materials and Structures, 2013, 22, 105016. | 1.8 | 57 |
| 50 | Dynamic behavior of MR suspensions at moderate flux densities. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 371, 9-15. | 2.6 | 53 |
| 51 | Development of a novel variable stiffness and damping magnetorheological fluid damper. Smart Materials and Structures, 2015, 24, 085021. | 1.8 | 53 |
| 52 | Delta Operator-Based Fault Estimation and Fault-Tolerant Model Predictive Control for Steer-By-Wire Systems. IEEE Transactions on Control Systems Technology, 2018, 26, 1810-1817. | 3.2 | 53 |
| 53 | Horizontal vibration reduction of a seat suspension using negative changing stiffness magnetorheological elastomer isolators. International Journal of Vehicle Design, 2015, 68, 104. | 0.1 | 51 |
| 54 | Investigation into untripped rollover of light vehicles in the modified fishhook and the sine maneuvers. Part I: Vehicle modelling, roll and yaw instability. Vehicle System Dynamics, 2008, 46, 271-293. | 2.2 | 50 |

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|---|---|---|---|
| 55 | Switched control of vehicle suspension based on motion-mode detection. Vehicle System Dynamics, 2014, 52, 142-165. | 2.2 | 50 |
| 56 | An electromagnetic variable inertance device for seat suspension vibration control. Mechanical Systems and Signal Processing, 2019, 133, 106259. | 4.4 | 49 |
| 57 | Non-fragile Hâˆž vibration control for uncertain structural systems. Journal of Sound and Vibration, 2004, 273, 1031-1045. | 2.1 | 47 |
| 58 | Design of Non-Fragile Hâˆž Controller for Active Vehicle Suspensions. JVC/Journal of Vibration and Control, 2005, 11, 225-243. | 1.5 | 47 |
| 59 | Development of a torsional dynamic absorber using a magnetorheological elastomer for vibration reduction of a powertrain test rig. Journal of Intelligent Material Systems and Structures, 2013, 24, 2036-2044. | 1.4 | 47 |
| 60 | A New Generation of Magnetorheological Vehicle Suspension System With Tunable Stiffness and Damping Characteristics. IEEE Transactions on Industrial Informatics, 2019, 15, 4696-4708. | 7.2 | 47 |
| 61 | On-chip high-throughput manipulation of particles in a dielectrophoresis-active hydrophoretic focuser. Scientific Reports, 2014, 4, 5060. | 1.6 | 46 |
| 62 | Constrained <i>H</i><sub>âˆž</sub> control of active suspension for a half-car model with a time delay in control. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2008, 222, 665-684. | 1.1 | 45 |
| 63 | Robust Fuzzy Control of an Active Magnetic Bearing Subject to Voltage Saturation. IEEE Transactions on Control Systems Technology, 2010, 18, 164-169. | 3.2 | 44 |
| 64 | Actuator saturation control of uncertain structures with input time delay. Journal of Sound and Vibration, 2011, 330, 4399-4412. | 2.1 | 44 |
| 65 | Fault tolerant steer-by-wire systems: An overview. Annual Reviews in Control, 2019, 47, 98-111. | 4.4 | 44 |
| 66 | Output feedback <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e4040" altimg="si6.gif"><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mi mathvariant="normal">âˆž</mml:mi></mml:mrow></mml:msub></mml:math> control for active suspension of in-wheel motor driven electric vehicle with control faults and input delay. ISA Transactions, 2019, 92, 94-108. | 3.1 | 43 |
| 67 | Hâˆž disturbance attenuation for uncertain mechanical systems with input delay. Transactions of the Institute of Measurement and Control, 2005, 27, 37-52. | 1.1 | 42 |
| 68 | Vibration reduction of seat suspension using observer based terminal sliding mode control with acceleration data fusion. Mechatronics, 2017, 44, 71-83. | 2.0 | 42 |
| 69 | Reduction of low frequency vibration of truck driver and seating system through system parameter identification, sensitivity analysis and active control. Mechanical Systems and Signal Processing, 2018, 105, 16-35. | 4.4 | 42 |
| 70 | Coupling effect between road excitation and an in-wheel switched reluctance motor on vehicle ride comfort and active suspension control. Journal of Sound and Vibration, 2019, 443, 683-702. | 2.1 | 42 |
| 71 | Performance evaluation and comparison of magnetorheological elastomer absorbers working in shear and squeeze modes. Journal of Intelligent Material Systems and Structures, 2015, 26, 1757-1763. | 1.4 | 40 |
| 72 | Study of shear-stiffened elastomers. Smart Materials and Structures, 2012, 21, 125009. | 1.8 | 39 |

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|---|---|---|---|
| 73 | Seated Whole-Body Vibration Analysis, Technologies, and Modeling: A Survey. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 725-739. | 5.9 | 39 |
| 74 | Observer-Based Fault-Tolerant Controller for Uncertain Steer-by-Wire Systems Using the Delta Operator. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2587-2598. | 3.7 | 39 |
| 75 | Driver Mental Fatigue Detection Based on Head Posture Using New Modified reLU-BiLSTM Deep Neural Network. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 10957-10969. | 4.7 | 39 |
| 76 | Trajectory control for autonomous electric vehicles with inâ€wheel motors based on a dynamics model approach. IET Intelligent Transport Systems, 2016, 10, 318-330. | 1.7 | 37 |
| 77 | Two-layer structure based adaptive estimation for vehicle mass and road slope under longitudinal motion. Measurement: Journal of the International Measurement Confederation, 2017, 95, 439-455. | 2.5 | 37 |
| 78 | Development of magnetorheological elastomersâ€“based tuned mass damper for building protection from seismic events. Journal of Intelligent Material Systems and Structures, 2018, 29, 1777-1789. | 1.4 | 37 |
| 79 | Side-slip angle estimation based lateral dynamics control for omni-directional vehicles with optimal steering angle and traction/brake torque distribution. Mechatronics, 2015, 30, 348-362. | 2.0 | 36 |
| 80 | Damping of low-frequency oscillations and improving power system stability via auto-tuned PI stabilizer using Takagiâ€“Sugeno fuzzy logic. International Journal of Electrical Power and Energy Systems, 2012, 38, 72-83. | 3.3 | 35 |
| 81 | Improving the critical speeds of high-speed trains using magnetorheological technology. Smart Materials and Structures, 2013, 22, 115012. | 1.8 | 35 |
| 82 | LPV technique for the rejection of sinusoidal disturbance with time-varying frequency. IET Control Theory and Applications, 2003, 150, 132-138. | 1.7 | 34 |
| 83 | Development of a linear damper working with magnetorheological shear thickening fluids. Journal of Intelligent Material Systems and Structures, 2015, 26, 1811-1817. | 1.4 | 34 |
| 84 | Control of a multiple-DOF vehicle seat suspension with roll and vertical vibration. Journal of Sound and Vibration, 2018, 435, 170-191. | 2.1 | 34 |
| 85 | Nonlinear rheological behavior of magnetorheological fluids: step-strain experiments. Smart Materials and Structures, 2002, 11, 209-217. | 1.8 | 33 |
| 86 | Human-Machine Shared Driving: Challenges and Future Directions. IEEE Transactions on Intelligent Vehicles, 2022, 7, 499-519. | 9.4 | 33 |
| 87 | Designing<i>H</i><sub>â^ž</sub>/GH<sub>2</sub>static-output feedback controller for vehicle suspensions using linear matrix inequalities and genetic algorithms. Vehicle System Dynamics, 2008, 46, 385-412. | 2.2 | 32 |
| 88 | Comparative study of vehicle tyreâ€“road friction coefficient estimation with a novel cost-effective method. Vehicle System Dynamics, 2014, 52, 1066-1098. | 2.2 | 31 |
| 89 | Side-slip angle estimation and stability control for a vehicle with a non-linear tyre model and a varying speed. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2015, 229, 486-505. | 1.1 | 31 |
| 90 | Energy-to-peak performance controller design for building via static output feedback under consideration of actuator saturation. Computers and Structures, 2006, 84, 2277-2290. | 2.4 | 30 |

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|---|---|---|---|
| 91 | Controllable Electrically Interconnected Suspension System for Improving Vehicle Vibration Performance. IEEE/ASME Transactions on Mechatronics, 2020, 25, 859-871. | 3.7 | 30 |
| 92 | Motion-mode energy method for vehicle dynamics analysis and control. Vehicle System Dynamics, 2014, 52, 1-25. | 2.2 | 29 |
| 93 | The Combined Effects of Adaptive Control and Virtual Reality on Robot-Assisted Fine Hand Motion Rehabilitation in Chronic Stroke Patients: A Case Study. Journal of Stroke and Cerebrovascular Diseases, 2018, 27, 221-228. | 0.7 | 29 |
| 94 | An Electromagnetic Variable Stiffness Device for Semiactive Seat Suspension Vibration Control. IEEE Transactions on Industrial Electronics, 2020, 67, 6773-6784. | 5.2 | 29 |
| 95 | A rotary variable admittance device and its application in vehicle seat suspension vibration control. Journal of the Franklin Institute, 2019, 356, 7873-7895. | 1.9 | 28 |
| 96 | Vibration Control of Vehicle Seat Integrating with Chassis Suspension and Driver Body Model. Advances in Structural Engineering, 2013, 16, 1-9. | 1.2 | 27 |
| 97 | High-throughput sheathless and three-dimensional microparticle focusing using a microchannel with arc-shaped groove arrays. Scientific Reports, 2017, 7, 41153. | 1.6 | 27 |
| 98 | Integrated Motion Control Scheme for Four-Wheel-Independent Vehicles Considering Critical Conditions. IEEE Transactions on Vehicular Technology, 2019, 68, 7488-7497. | 3.9 | 27 |
| 99 | In-Wheel Motor Vibration Control for Distributed-Driven Electric Vehicles: A Review. IEEE Transactions on Transportation Electrification, 2021, 7, 2864-2880. | 5.3 | 27 |
| 100 | A novel negative stiffness magnetic spring design for vehicle seat suspension system. Mechatronics, 2020, 68, 102370. | 2.0 | 27 |
| 101 | Energy-to-peak control of seismic-excited buildings with input delay. Structural Control and Health Monitoring, 2007, 14, 947-970. | 1.9 | 26 |
| 102 | Active Vibration Control of Structures Subject to Parameter Uncertainties and Actuator Delay. JVC/Journal of Vibration and Control, 2008, 14, 689-709. | 1.5 | 26 |
| 103 | An Improved Model Predictive Control Scheme for the PWM Rectifier-Inverter System Based on Power-balancing Mechanism. IEEE Transactions on Industrial Electronics, 2016, , 1-1. | 5.2 | 26 |
| 104 | Four-Wheel Electric Braking System Configuration With New Braking Torque Distribution Strategy for Improving Energy Recovery Efficiency. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 87-103. | 4.7 | 26 |
| 105 | Event-triggered <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si10.svg"><mml:mrow><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mi>âˆž</mml:mi></m control for active seat suspension systems based on relaxed conditions for stability. Mechanical Systems and Signal Processing, 2021, 149, 107210. | 4.4 | 26 |
| 106 | Reconstructing cylinder pressure from vibration signals based on radial basis function networks. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2001, 215, 761-767. | 1.1 | 25 |
| 107 | Development of an MR seat suspension with self-powered generation capability. Smart Materials and Structures, 2017, 26, 085025. | 1.8 | 25 |
| 108 | Admissibilisation of singular interval typeâ€2 Takagiâ€"Sugeno fuzzy systems with time delay. IET Control Theory and Applications, 2020, 14, 1022-1032. | 1.2 | 25 |

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|---|---|---|---|
| 109 | Robust sampled-data control of structures subject to parameter uncertainties and actuator saturation. Engineering Structures, 2012, 36, 39-48. | 2.6 | 24 |
| 110 | Integrated active and semi-active control for seat suspension of a heavy duty vehicle. Journal of Intelligent Material Systems and Structures, 2018, 29, 91-100. | 1.4 | 24 |
| 111 | Investigation of a seat suspension installed with compact variable stiffness and damping rotary magnetorheological dampers. Mechanical Systems and Signal Processing, 2022, 171, 108802. | 4.4 | 24 |
| 112 | Development of an MRE adaptive tuned vibration absorber with self-sensing capability. Smart Materials and Structures, 2015, 24, 095012. | 1.8 | 23 |
| 113 | Driver intention based coordinate control of regenerative and plugging braking for electric vehicles with inâ€wheel PMSMs. IET Intelligent Transport Systems, 2018, 12, 1300-1311. | 1.7 | 23 |
| 114 | A Novel Electrical Variable Stiffness Device for Vehicle Seat Suspension Control With Mismatched Disturbance Compensation. IEEE/ASME Transactions on Mechatronics, 2019, 24, 2019-2030. | 3.7 | 23 |
| 115 | Experimental testing and modelling of a rotary variable stiffness and damping shock absorber using magnetorheological technology. Journal of Intelligent Material Systems and Structures, 2019, 30, 1453-1465. | 1.4 | 23 |
| 116 | Multiobjective predictive cruise control for connected vehicle systems on urban conditions with InPAâ€SQP. Optimal Control Applications and Methods, 2019, 40, 479-498. | 1.3 | 23 |
| 117 | Delta Operator-Based Model Predictive Control With Fault Compensation for Steer-by-Wire Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 2257-2272. | 5.9 | 23 |
| 118 | Design a Novel Target to Improve Positioning Accuracy of Autonomous Vehicular Navigation System in GPS Denied Environments. IEEE Transactions on Industrial Informatics, 2021, 17, 7575-7588. | 7.2 | 23 |
| 119 | A torsional MRE joint for a C-shaped robotic leg. Smart Materials and Structures, 2017, 26, 015002. | 1.8 | 22 |
| 120 | Flow rate-insensitive microparticle separation and filtration using a microchannel with arc-shaped groove arrays. Microfluidics and Nanofluidics, 2017, 21, 1. | 1.0 | 21 |
| 121 | A semi-active variable equivalent stiffness and inertance device implemented by an electrical network. Mechanical Systems and Signal Processing, 2021, 156, 107676. | 4.4 | 21 |
| 122 | Static Output Feedback Control for Electrohydraulic Active Suspensions via Tâ€"S Fuzzy Model Approach. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2009, 131, . | 0.9 | 20 |
| 123 | Robust control of vehicle electrorheological suspension subject to measurement noises. Vehicle System Dynamics, 2011, 49, 257-275. | 2.2 | 20 |
| 124 | <i>H</i> <sub>â^ž</sub> stateâ€feedback control of bilateral teleoperation systems with asymmetric timeâ€varying delays. IET Control Theory and Applications, 2013, 7, 594-605. | 1.2 | 20 |
| 125 | Optimal Distribution Control Of Nonâ€Linear Tire Force Of Electric Vehicles With Inâ€Wheel Motors. Asian Journal of Control, 2016, 18, 69-88. | 1.9 | 20 |
| 126 | Development of a nonlinear adaptive absorber based on magnetorheological elastomer. Journal of Intelligent Material Systems and Structures, 2018, 29, 194-204. | 1.4 | 20 |

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|---|---|---|---|
| 127 | Multiple Vehicle Tracking Based on Labeled Multiple Bernoulli Filter Using Pre-Clustered Laser Range Finder Data. IEEE Transactions on Vehicular Technology, 2019, 68, 10382-10393. | 3.9 | 20 |
| 128 | An innovative MRE absorber with double natural frequencies for wide frequency bandwidth vibration absorption. Smart Materials and Structures, 2016, 25, 055035. | 1.8 | 19 |
| 129 | Event-triggered control for nonlinear leaf spring hydraulic actuator suspension system with valve predictive management. Information Sciences, 2021, 551, 184-204. | 4.0 | 19 |
| 130 | Clinical effectiveness of combined virtual reality and robot assisted fine hand motion rehabilitation in subacute stroke patients. , 2017, 2017, 511-515. | | 18 |
| 131 | An Electromagnetic Variable Inertance and Damping Seat Suspension With Controllable Circuits. IEEE Transactions on Industrial Electronics, 2022, 69, 2811-2821. | 5.2 | 18 |
| 132 | Referenceâ€free approach for mitigating humanâ€“machine conflicts in shared control of automated vehicles. IET Control Theory and Applications, 2020, 14, 2752-2763. | 1.2 | 18 |
| 133 | Real-time identification of vehicle motion-modes using neural networks. Mechanical Systems and Signal Processing, 2015, 50-51, 632-645. | 4.4 | 17 |
| 134 | Model predictive control-based lane change control system for an autonomous vehicle. , 2016, , . | | 16 |
| 135 | Development of a novel magnetophoresis-assisted hydrophoresis microdevice for rapid particle ordering. Biomedical Microdevices, 2016, 18, 54. | 1.4 | 16 |
| 136 | An Innovative Two-Layer Multiple-DOF Seat Suspension for Vehicle Whole Body Vibration Control. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1787-1799. | 3.7 | 16 |
| 137 | A magnetorheological elastomer rail damper for wideband attenuation of rail noise and vibration. Journal of Intelligent Material Systems and Structures, 2020, 31, 220-228. | 1.4 | 16 |
| 138 | Decoupling vibration control of a semi-active electrically interconnected suspension based on mechanical hardware-in-the-loop. Mechanical Systems and Signal Processing, 2022, 166, 108455. | 4.4 | 16 |
| 139 | Mixed H2/Hâˆž control of tall buildings with reduced-order modelling technique. Structural Control and Health Monitoring, 2008, 15, 64-89. | 1.9 | 15 |
| 140 | Dynamics analysis of an omni-directional vehicle. International Journal of Automotive Technology, 2014, 15, 387-398. | 0.7 | 15 |
| 141 | Rear-Steering Based Decentralized Control of Four-Wheel Steering Vehicle. IEEE Transactions on Vehicular Technology, 2020, 69, 10899-10913. | 3.9 | 15 |
| 142 | Control strategy for vibration suppression of a vehicle multibody system on a bumpy road. Mechanism and Machine Theory, 2022, 174, 104891. | 2.7 | 15 |
| 143 | Model-based Fuzzy Control for Buildings Installed with Magneto-rheological Dampers. Journal of Intelligent Material Systems and Structures, 2009, 20, 1091-1105. | 1.4 | 14 |
| 144 | Transparent four-channel bilateral control architecture using modified wave variable controllers under time delays. Robotica, 2016, 34, 859-875. | 1.3 | 14 |

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|---|---|---|---|
| 145 | Multiobjective Platooning of Connected and Automated Vehicles Using Distributed Economic Model Predictive Control. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 19121-19135. | 4.7 | 14 |
| 146 | Dynamically integrated spatiotemporalâ€based trajectory planning and control for autonomous vehicles. IET Intelligent Transport Systems, 2018, 12, 1271-1282. | 1.7 | 13 |
| 147 | A controllable mechanical motion rectifier-based semi-active magnetorheological inerter for vibration control. Smart Materials and Structures, 2020, 29, 114005. | 1.8 | 13 |
| 148 | Pareto Optimal Information Flow Topology for Control of Connected Autonomous Vehicles. IEEE Transactions on Intelligent Vehicles, 2023, 8, 330-343. | 9.4 | 13 |
| 149 | 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. Vehicle System Dynamics, 2011, 49, 949-968. | 2.2 | 12 |
| 150 | Damping of lowâ€inertia machine oscillations using Takagiâ€Sugeno fuzzy stabiliser tuned by genetic algorithm optimisation to improve system stability. IET Generation, Transmission and Distribution, 2014, 8, 339-352. | 1.4 | 12 |
| 151 | Reinforcement learning neural network (RLNN) based adaptive control of fine hand motion rehabilitation robot. , 2015, , . | | 12 |
| 152 | Advanced vehicle suspension with variable stiffness and damping MR damper. , 2017, , . | | 12 |
| 153 | Overcoming the conflict requirement between high-speed stability and curving trafficability of the train using an innovative magnetorheological elastomer rubber joint. Journal of Intelligent Material Systems and Structures, 2018, 29, 214-222. | 1.4 | 12 |
| 154 | Takagi-Sugeno Fuzzy Model-Based Semi-Active Control for the Seat Suspension With an Electrorheological Damper. IEEE Access, 2020, 8, 98027-98037. | 2.6 | 12 |
| 155 | Improved Bidirectional RRT <math xmlns="http://www.w3.org/1998/Math/MathML" id="M1"> <msup> <mrow /> <mi>âˆ—</mi> </msup> </math> Path Planning Method for Smart Vehicle. Mathematical Problems in Engineering, 2021, 2021, 1-14. | 0.6 | 12 |
| 156 | Game-Theory-Inspired Hierarchical Distributed Control Strategy for Cooperative Intersection Considering Priority Negotiation. IEEE Transactions on Vehicular Technology, 2021, 70, 6438-6449. | 3.9 | 12 |
| 157 | Integrated Dynamics Control and Energy Efficiency Optimization for Overactuated Electric Vehicles. Asian Journal of Control, 2018, 20, 1952-1966. | 1.9 | 11 |
| 158 | Non-linear tyre modelâ€“based non-singular terminal sliding mode observer for vehicle velocity and side-slip angle estimation. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2019, 233, 38-54. | 1.1 | 11 |
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