Amir Khajepour

List of Publications by Year in descending order

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38660 51492 9,769 235 50 citations h-index papers

g-index 239 239 239 6197 docs citations times ranked citing authors all docs

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#	Article	IF	CITATIONS
1	Path Planning and Tracking for Vehicle Collision Avoidance Based on Model Predictive Control With Multiconstraints. IEEE Transactions on Vehicular Technology, 2017, 66, 952-964.	3.9	693
2	A Potential Field-Based Model Predictive Path-Planning Controller for Autonomous Road Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 1255-1267.	4.7	438
3	Model predictive control power management strategies for HEVs: A review. Journal of Power Sources, 2017, 341, 91-106.	4.0	409
4	A comprehensive review of the key technologies for pure electric vehicles. Energy, 2019, 182, 824-839.	4.5	339
5	Effect of real-time cooling rate on microstructure in Laser Additive Manufacturing. Journal of Materials Processing Technology, 2016, 231, 468-478.	3.1	242
6	3-D finite element modeling of laser cladding by powder injection: effects of laser pulse shaping on the process. Optics and Lasers in Engineering, 2004, 41, 849-867.	2.0	201
7	Stiffness of Cable-based Parallel Manipulators With Application to Stability Analysis. Journal of Mechanical Design, Transactions of the ASME, 2006, 128, 303-310.	1.7	182
8	A review of power management strategies and component sizing methods for hybrid vehicles. Renewable and Sustainable Energy Reviews, 2018, 96, 132-144.	8.2	175
9	Effect of laser cladding process parameters on clad quality and in-situ formed microstructure of Fe–TiC composite coatings. Surface and Coatings Technology, 2010, 205, 2007-2015.	2.2	153
10	Crash Mitigation in Motion Planning for Autonomous Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 3313-3323.	4.7	150
11	Model predictive control-based energy management strategy for a series hybrid electric tracked vehicle. Applied Energy, 2016, 182, 105-114.	5.1	137
12	Prediction of melt pool depth and dilution in laser powder deposition. Journal Physics D: Applied Physics, 2006, 39, 2613-2623.	1.3	122
13	Vehicle Optimal Torque Vectoring Using State-Derivative Feedback and Linear Matrix Inequality. IEEE Transactions on Vehicular Technology, 2013, 62, 1540-1552.	3.9	122
14	Piezoelectric and triboelectric nanogenerators: Trends and impacts. Nano Today, 2018, 22, 10-13.	6.2	121
15	Autonomous Vehicle Kinematics and Dynamics Synthesis for Sideslip Angle Estimation Based on Consensus Kalman Filter. IEEE Transactions on Control Systems Technology, 2023, 31, 179-192.	3.2	116
16	Three-dimensional finite element modeling of laser cladding by powder injection: Effects of powder feedrate and travel speed on the process. Journal of Laser Applications, 2003, 15, 153-160.	0.8	111
17	Clad height control in laser solid freeform fabrication using a feedforward PID controller. International Journal of Advanced Manufacturing Technology, 2007, 35, 280-292.	1.5	110
18	Model Predictive Control for integrated lateral stability, traction/braking control, and rollover prevention of electric vehicles. Vehicle System Dynamics, 2020, 58, 49-73.	2.2	105

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19	An optimal torque distribution control strategy for four-independent wheel drive electric vehicles. Vehicle System Dynamics, 2015, 53, 1172-1189.	2.2	103
20	Energy management for a power-split hybrid electric bus via deep reinforcement learning with terrain information. Applied Energy, 2019, 255, 113762.	5.1	102
21	Real-time control of microstructure in laser additive manufacturing. International Journal of Advanced Manufacturing Technology, 2016, 82, 1173-1186.	1.5	95
22	Research on the energy control of a dual-motor hybrid vehicle during engine start-stop process. Energy, 2019, 166, 1181-1193.	4.5	92
23	Modeling of two-hot-arm horizontal thermal actuator. Journal of Micromechanics and Microengineering, 2003, 13, 312-322.	1.5	91
24	Design and modeling of a MEMS bidirectional vertical thermal actuator. Journal of Micromechanics and Microengineering, 2004, 14, 841-850.	1.5	91
25	A hybridized electromagnetic-triboelectric self-powered sensor for traffic monitoring: concept, modelling, and optimization. Nano Energy, 2017, 32, 105-116.	8.2	87
26	Modular integrated longitudinal and lateral vehicle stability control for electric vehicles. Mechatronics, 2017, 44, 60-70.	2.0	83
27	Analysis of Bounded Cable Tensions in Cable-Actuated Parallel Manipulators. IEEE Transactions on Robotics, 2011, 27, 891-900.	7.3	82
28	Model predictive control of vehicle stability using coordinated active steering and differential brakes. Mechatronics, 2017, 48, 30-41.	2.0	80
29	A Novel Local Motion Planning Framework for Autonomous Vehicles Based on Resistance Network and Model Predictive Control. IEEE Transactions on Vehicular Technology, 2020, 69, 55-66.	3.9	79
30	Optimization of Actuator Forces in Cable-Based Parallel Manipulators Using Convex Analysis. IEEE Transactions on Robotics, 2008, 24, 736-740.	7.3	78
31	Temporal development of melt-pool morphology and clad geometry in laser powder deposition. Computational Materials Science, 2011, 50, 2124-2134.	1.4	78
32	Integrated stability and traction control for electric vehicles using model predictive control. Control Engineering Practice, 2016, 54, 256-266.	3.2	76
33	A mechatronics approach to laser powder deposition process. Mechatronics, 2006, 16, 631-641.	2.0	74
34	The influence of combined laser parameters on in-situ formed TiC morphology during laser cladding. Surface and Coatings Technology, 2011, 206, 124-131.	2.2	73
35	Embedded self-powered sensing systems for smart vehicles and intelligent transportation. Nano Energy, 2019, 66, 104103.	8.2	73
36	Speed independent road classification strategy based on vehicle response: Theory and experimental validation. Mechanical Systems and Signal Processing, 2019, 117, 653-666.	4.4	72

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37	Active Control of Structures Using Energy-Based LQR Method. Computer-Aided Civil and Infrastructure Engineering, 2006, 21, 605-611.	6.3	71
38	Kinematically-Constrained Redundant Cable-Driven Parallel Robots: Modeling, Redundancy Analysis, and Stiffness Optimization. IEEE/ASME Transactions on Mechatronics, 2017, 22, 921-930.	3.7	64
39	Improved Vehicle Localization Using On-Board Sensors and Vehicle Lateral Velocity. IEEE Sensors Journal, 2022, 22, 6818-6831.	2.4	64
40	Vibration Decoupled Modeling and Robust Control of Redundant Cable-Driven Parallel Robots. IEEE/ASME Transactions on Mechatronics, 2018, 23, 690-701.	3.7	63
41	Impact of localized surface preheating on the microstructure and crack formation in laser direct deposition of Stellite 1 on AISI 4340 steel. Applied Surface Science, 2010, 257, 1716-1723.	3.1	62
42	A New Cable-Based Parallel Robot with Three Degrees of Freedom. Multibody System Dynamics, 2005, 13, 371-383.	1.7	60
43	Integrated model predictive control and velocity estimation of electric vehicles. Mechatronics, 2017, 46, 84-100.	2.0	59
44	Cyber-Physical Control for Energy Management of Off-Road Vehicles With Hybrid Energy Storage Systems. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2609-2618.	3.7	58
45	Tire Condition Monitoring and Intelligent Tires Using Nanogenerators Based on Piezoelectric, Electromagnetic, and Triboelectric Effects. Advanced Materials Technologies, 2019, 4, 1800105.	3.0	57
46	Corner-based estimation of tire forces and vehicle velocities robust to road conditions. Control Engineering Practice, 2017, 61, 28-40.	3.2	56
47	Double Deep Reinforcement Learning-Based Energy Management for a Parallel Hybrid Electric Vehicle With Engine Start–Stop Strategy. IEEE Transactions on Transportation Electrification, 2022, 8, 1376-1388.	5.3	56
48	Optimal energy-efficient predictive controllers in automotive air-conditioning/refrigeration systems. Applied Energy, 2016, 184, 605-618.	5.1	53
49	Geometry Control of the Deposited Layer in a Nonplanar Laser Cladding Process Using a Variable Structure Controller. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2008, 130, .	1.3	52
50	An energy-saving set-point optimizer with a sliding mode controller for automotive air-conditioning/refrigeration systems. Applied Energy, 2017, 188, 576-585.	5.1	52
51	A flexible hybridized electromagnetic-triboelectric multi-purpose self-powered sensor. Nano Energy, 2018, 45, 319-329.	8.2	52
52	The effect of localized dynamic surface preheating in laser cladding of Stellite 1. Surface and Coatings Technology, 2010, 204, 3911-3919.	2.2	51
53	Processing window development for laser cladding of zirconium on zirconium alloy. Journal of Materials Processing Technology, 2016, 230, 263-271.	3.1	50
54	Correlation between temperature distribution and in situ formed microstructure of Fe–TiC deposited on carbon steel using laser cladding. Applied Surface Science, 2012, 258, 9025-9031.	3.1	49

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55	State-of-Charge Estimation Using an EKF-Based Adaptive Observer. IEEE Transactions on Control Systems Technology, 2019, 27, 1907-1923.	3.2	48
56	An Optimal Torque Vectoring Control for Vehicle Applications via Real-Time Constraints. IEEE Transactions on Vehicular Technology, 2016, 65, 4368-4378.	3.9	47
57	Integrated model predictive and torque vectoring control for path tracking of 4â€wheelâ€driven autonomous vehicles. IET Intelligent Transport Systems, 2019, 13, 98-107.	1.7	47
58	Review and Comparison of Hysteresis Models for Magnetostrictive Materials. Journal of Intelligent Material Systems and Structures, 2009, 20, 131-142.	1.4	45
59	A new adaptive hybrid electromagnetic damper: modelling, optimization, and experiment. Smart Materials and Structures, 2015, 24, 075003.	1.8	45
60	Design, Kinematics, and Control of a Multijoint Soft Inflatable Arm for Human-Safe Interaction. IEEE Transactions on Robotics, 2017, 33, 594-609.	7.3	45
61	Integrated Steering and Differential Braking for Emergency Collision Avoidance in Autonomous Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 3167-3178.	4.7	45
62	Process optimization of Ti–Nb alloy coatings on a Ti–6Al–4V plate using a fiber laser and blended elemental powders. Journal of Materials Processing Technology, 2010, 210, 2081-2087.	3.1	44
63	Tribology characteristics of in-situ laser deposition of Fe-TiC. Surface and Coatings Technology, 2012, 206, 4495-4501.	2.2	44
64	Ethical Decision-Making Platform in Autonomous Vehicles With Lexicographic Optimization Based Model Predictive Controller. IEEE Transactions on Vehicular Technology, 2020, 69, 8164-8175.	3.9	44
65	Optimal design of laser solid freeform fabrication system and real-time prediction of melt pool geometry using intelligent evolutionary algorithms. Applied Soft Computing Journal, 2013, 13, 1505-1519.	4.1	43
66	Integrated torque vectoring and power management framework for electric vehicles. Control Engineering Practice, 2016, 48, 22-36.	3.2	43
67	A Supervisory Energy-Saving Controller for a Novel Anti-Idling System of Service Vehicles. IEEE/ASME Transactions on Mechatronics, 2017, 22, 1037-1046.	3.7	41
68	A novel energy management for hybrid off-road vehicles without future driving cycles as a priori. Energy, 2017, 133, 929-940.	4.5	41
69	Multi-objective optimization of a hybrid electromagnetic suspension system for ride comfort, road holding and regenerated power. JVC/Journal of Vibration and Control, 2017, 23, 782-793.	1.5	40
70	Holistic Adaptive Multi-Model Predictive Control for the Path Following of 4WID Autonomous Vehicles. IEEE Transactions on Vehicular Technology, 2021, 70, 69-81.	3.9	40
71	Design of reduced DOF parallel cable-based robots. Mechanism and Machine Theory, 2004, 39, 1051-1065.	2.7	38
72	Effect of cooling rate and laser process parameters on additive manufactured Fe–Ti–C metal matrix composites microstructure and carbide morphology. Journal of Manufacturing Processes, 2014, 16, 511-517.	2.8	38

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73	Intelligent systems using triboelectric, piezoelectric, and pyroelectric nanogenerators. Materials Today, 2022, 52, 188-206.	8.3	38
74	Longitudinal vehicle state estimation using nonlinear and parameter-varying observers. Mechatronics, 2017, 43, 28-39.	2.0	37
75	Robust state feedback stabilization of articulated steer vehicles. Vehicle System Dynamics, 2007, 45, 249-275.	2.2	36
76	Stability and optimised (i>H _{\hat{a}^\tilde{z}} control of tripped and untripped vehicle rollover. Vehicle System Dynamics, 2016, 54, 1405-1427.	2.2	36
77	A Triboelectric Selfâ€Powered Sensor for Tire Condition Monitoring: Concept, Design, Fabrication, and Experiments. Advanced Engineering Materials, 2017, 19, 1700318.	1.6	36
78	A new pneumatic suspension system with independent stiffness and ride height tuning capabilities. Vehicle System Dynamics, 2012, 50, 1735-1746.	2.2	35
79	Decoupled modeling and model predictive control of a hybrid cable-driven robot (HCDR). Robotics and Autonomous Systems, 2019, 118, 1-12.	3.0	35
80	Out-of-Plane Vibration Control of a Planar Cable-Driven Parallel Robot. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1684-1692.	3.7	34
81	Closed-loop control of microstructure and mechanical properties in additive manufacturing by directed energy deposition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 803, 140483.	2.6	34
82	Surface finish in laser solid freeform fabrication of an AISI 303L stainless steel thin wall. Journal of Materials Processing Technology, 2012, 212, 113-119.	3.1	33
83	An adaptive model predictive controller for a novel battery-powered anti-idling system of service vehicles. Energy, 2017, 127, 318-327.	4.5	33
84	Ethical Decision Making in Autonomous Vehicles: Challenges and Research Progress. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 6-17.	2.6	33
85	Tire Force Estimation in Intelligent Tires Using Machine Learning. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 3565-3574.	4.7	33
86	High frequency nano electromagnetic self-powered sensor: Concept, modelling and analysis. Measurement: Journal of the International Measurement Confederation, 2017, 107, 31-40.	2.5	32
87	Multi-axle/articulated bus dynamics modeling: a reconfigurable approach. Vehicle System Dynamics, 2018, 56, 1315-1343.	2.2	32
88	A combined-slip predictive control of vehicle stability with experimental verification. Vehicle System Dynamics, 2018, 56, 319-340.	2.2	32
89	Reconfigurable Model Predictive Control for Articulated Vehicle Stability With Experimental Validation. IEEE Transactions on Transportation Electrification, 2020, 6, 308-317.	5.3	32
90	A Novel Reconfigurable Integrated Vehicle Stability Control With Omni Actuation Systems. IEEE Transactions on Vehicular Technology, 2018, 67, 2945-2957.	3.9	31

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91	Cooperative Vehicle Speed Fault Diagnosis and Correction. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 783-789.	4.7	31
92	Vehicle Stability Control: Model Predictive Approach and Combined-Slip Effect. IEEE/ASME Transactions on Mechatronics, 2020, 25, 2789-2800.	3.7	31
93	A predictive power management controller for service vehicle anti-idling systems without a priori information. Applied Energy, 2016, 182, 548-557.	5.1	30
94	Graph Theoretic Approach to the Robustness of \$k\$ -Nearest Neighbor Vehicle Platoons. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 3218-3224.	4.7	30
95	Reconfigurable Integrated Stability Control for Four- and Three-wheeled Urban Vehicles With Flexible Combinations of Actuation Systems. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2031-2041.	3.7	30
96	Integrated Crash Avoidance and Mitigation Algorithm for Autonomous Vehicles. IEEE Transactions on Industrial Informatics, 2021, 17, 7246-7255.	7.2	30
97	Modelling and optimal energy-saving control of automotive air-conditioning and refrigeration systems. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2017, 231, 291-309.	1.1	29
98	A comprehensive study on the stability analysis of vehicle dynamics with pure/combined-slip tyre models. Vehicle System Dynamics, 2016, 54, 1736-1761.	2.2	28
99	Real-time estimation of the road bank and grade angles with unknown input observers. Vehicle System Dynamics, 2017, 55, 648-667.	2.2	28
100	Cyber-Physical Predictive Energy Management for Through-the-Road Hybrid Vehicles. IEEE Transactions on Vehicular Technology, 2019, 68, 3246-3256.	3.9	27
101	Fault Tolerant Consensus for Vehicle State Estimation: A Cyber-Physical Approach. IEEE Transactions on Industrial Informatics, 2019, 15, 5129-5138.	7.2	27
102	Model predictive rollover prevention for steer-by-wire vehicles with a new rollover index. International Journal of Control, 2020, 93, 140-155.	1.2	27
103	Height Control in Laser Cladding Using Adaptive Sliding Mode Technique: Theory and Experiment. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2010, 132, .	1.3	26
104	Estimation of longitudinal speed robust to road conditions for ground vehicles. Vehicle System Dynamics, 2016, 54, 1120-1146.	2.2	26
105	A Comparative Study of the Energy-Saving Controllers for Automotive Air-Conditioning/Refrigeration Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	0.9	26
106	Uni-drive modular robots: theory, design, and experiments. Mechanism and Machine Theory, 2004, 39, 183-200.	2.7	24
107	Development of a new fully flexible hydraulic variable valve actuation system for engines using rotary spool valves. Mechatronics, 2017, 46, 1-20.	2.0	24
108	Model predictive control of vehicle roll-over with experimental verification. Control Engineering Practice, 2018, 77, 95-108.	3.2	24

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109	Autonomous driving motion planning with obstacles prioritization using lexicographic optimization. Control Engineering Practice, 2018, 77, 235-246.	3.2	24
110	Autonomous Vehicles Sideslip Angle Estimation: Single Antenna GNSS/IMU Fusion With Observability Analysis. IEEE Internet of Things Journal, 2021, 8, 14845-14859.	5.5	24
111	State of Health Estimation of Lithium-Ion Batteries in Electric Vehicles under Dynamic Load Conditions. Energies, 2022, 15, 1234.	1.6	24
112	Application of Lexicographic Optimization Method to Integrated Vehicle Control Systems. IEEE Transactions on Industrial Electronics, 2018, 65, 9677-9686.	5.2	23
113	Model predictive-based tractor-trailer stabilisation using differential braking with experimental verification. Vehicle System Dynamics, 2021, 59, 1190-1213.	2.2	23
114	Stability and robust position control of hysteretic systems. International Journal of Robust and Nonlinear Control, 2010, 20, 460-471.	2.1	22
115	A flexible tube-based triboelectric–electromagnetic sensor for knee rehabilitation assessment. Sensors and Actuators A: Physical, 2018, 279, 694-704.	2.0	22
116	Solidification behaviour and phase formation during pre-placed laser cladding of Ti45Nb on mild steel. Surface and Coatings Technology, 2010, 204, 2400-2409.	2.2	21
117	A novel compression strategy for air hybrid engines. Applied Energy, 2011, 88, 2955-2966.	5.1	21
118	Hybrid variable damping control: design, simulation, and optimization. Microsystem Technologies, 2014, 20, 1723-1732.	1.2	21
119	Opinion Dynamics-Based Vehicle Velocity Estimation and Diagnosis. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 2142-2148.	4.7	21
120	Multiaxis Reaction System (MARS) for Vibration Control of Planar Cable-Driven Parallel Robots. IEEE Transactions on Robotics, 2019, 35, 1039-1046.	7.3	21
121	Analysis of a Large-Workspace Cable-Actuated Manipulator for Warehousing Applications. , 2009, , .		20
122	Torque-Vectoring-Based Vehicle Control Robust to Driver Uncertainties. IEEE Transactions on Vehicular Technology, 2015, 64, 3359-3367.	3.9	20
123	A Novel Combined Decision and Control Scheme for Autonomous Vehicle in Structured Road Based on Adaptive Model Predictive Control. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 16083-16097.	4.7	20
124	Application of experimental-based modeling to laser cladding. Journal of Laser Applications, 2002, 14, 165-173.	0.8	19
125	A comparative study of equivalent modelling for multi-axle vehicle. Vehicle System Dynamics, 2018, 56, 443-460.	2.2	19
126	Study on Rollover Index and Stability for a Triaxle Bus. Chinese Journal of Mechanical Engineering (English Edition), 2019, 32, .	1.9	19

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127	A Reconfigurable Integrated Control for Narrow Tilting Vehicles. IEEE Transactions on Vehicular Technology, 2019, 68, 234-244.	3.9	19
128	A general rollover index for tripped and un-tripped rollovers on flat and sloped roads. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2019, 233, 304-316.	1.1	19
129	Trailer Mass Estimation Using System Model-Based and Machine Learning Approaches. IEEE Transactions on Vehicular Technology, 2020, 69, 12536-12546.	3.9	19
130	Development of an adaptive fuzzy logic-based inverse dynamic model for laser cladding process. Engineering Applications of Artificial Intelligence, 2010, 23, 1408-1419.	4.3	18
131	Handling Delays in Yaw Rate Control of Electric Vehicles Using Model Predictive Control With Experimental Verification. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	0.9	18
132	A Universal and Reconfigurable Stability Control Methodology for Articulated Vehicles With Any Configurations. IEEE Transactions on Vehicular Technology, 2020, 69, 3748-3759.	3.9	18
133	Study of Hydraulic Steering Process for Articulated Heavy Vehicles Based on the Principle of the Least Resistance. IEEE/ASME Transactions on Mechatronics, 2019, 24, 1662-1673.	3.7	17
134	Mixed local motion planning and tracking control framework for autonomous vehicles based on model predictive control. IET Intelligent Transport Systems, 2019, 13, 950-959.	1.7	17
135	Static Workspace Optimization of Aerial Cable Towed Robots With Land-Fixed Winches. IEEE Transactions on Robotics, 2020, 36, 1603-1610.	7.3	17
136	Slip-aware driver assistance path tracking and stability control. Control Engineering Practice, 2022, 118, 104958.	3.2	17
137	Rollover stabilities of three-wheeled vehicles including road configuration effects. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2017, 231, 859-871.	1.1	16
138	Learning-based vehicle suspension controller design: A review of the state-of-the-art and future research potentials. ETransportation, 2019, 2, 100024.	6.8	16
139	Mechanical properties and microstructures in zirconium deposited by injected powder laser additive manufacturing. Additive Manufacturing, 2018, 22, 537-547.	1.7	15
140	A study on actuator delay compensation using predictive control technique with experimental verification. Mechatronics, 2019, 57, 140-149.	2.0	15
141	Comparative study on the economy of hybrid mining trucks for openâ€pit mining. IET Intelligent Transport Systems, 2019, 13, 201-208.	1.7	15
142	The effect of powder composition on the morphology of in situ TiC composite coating deposited by Laser-Assisted Powder Deposition (LAPD). Applied Surface Science, 2012, 261, 201-208.	3.1	14
143	Thermal monitoring of microstructure and carbide morphology in direct metal deposition of Fe-Ti-C metal matrix composites. Journal of Alloys and Compounds, 2017, 710, 20-28.	2.8	14
144	Lateral Force Prediction Using Gaussian Process Regression for Intelligent Tire Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 5332-5343.	5.9	14

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145	Minimum-norm Solution for the Actuator Forces in Cable-based Parallel Manipulators based on Convex Optimization. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	13
146	Robust PI control of hysteretic systems. , 2008, , .		13
147	Optimal Torque Control for an Electric-Drive Vehicle with In-Wheel Motors: Implementation and Experiments. SAE International Journal of Commercial Vehicles, 0, 6, 82-92.	0.4	13
148	Design and analysis of an integrated suspension tilting mechanism for narrow urban vehicles. Mechanism and Machine Theory, 2018, 120, 225-238.	2.7	13
149	Direct tire slip ratio estimation using intelligent tire system and machine learning algorithms. Mechanical Systems and Signal Processing, 2022, 175, 109085.	4.4	13
150	Improving energy efficiency and robustness of a novel variable valve actuation system for engines. Mechatronics, 2018, 50, 121-133.	2.0	12
151	A Review on Vehicle-Trailer State and Parameter Estimation. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 5993-6010.	4.7	12
152	Planar Variable Structure Cable-Driven Parallel Robots for Circumventing Obstacles. Journal of Mechanisms and Robotics, 2021, 13 , .	1.5	12
153	A novel integrated suspension tilting system for narrow urban vehicles. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2018, 232, 1970-1981.	1.1	11
154	A Reaction-Based Stabilizer for Nonmodel-Based Vibration Control of Cable-Driven Parallel Robots. IEEE Transactions on Robotics, 2021, 37, 667-674.	7.3	11
155	A new adiabatic compressed air energy storage system based on a novel compression strategy. Energy, 2022, 242, 122883.	4.5	11
156	A novel tripped rollover prevention system for commercial trucks with air suspensions at low speeds. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2018, 232, 1516-1527.	1.1	10
157	Integrated Stability Control for Narrow Tilting Vehicles: An Envelope Approach. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 3158-3166.	4.7	10
158	Wrench Feasibility and Workspace Expansion of Planar Cable-Driven Parallel Robots by a Novel Passive Counterbalancing Mechanism. IEEE Transactions on Robotics, 2021, 37, 935-947.	7.3	10
159	Power Distribution Strategy Development and Optimization of an Integrated Dual-Motor Transmission for Electric Dump Truck. IEEE Transactions on Transportation Electrification, 2021, 7, 1964-1975.	5. 3	10
160	Creep and Fatigue Failure in Single- and Double Hot Arm MEMS Thermal Actuators. Journal of Failure Analysis and Prevention, 2009, 9, 159-170.	0.5	9
161	Design and Application of Chattering-Free Sliding Mode Controller to Cable-Driven Parallel Robot Manipulator: Theory and Experiment. , 2010 , , .		9
162	Transverse Vibration Control in Planar Cable-Driven Robotic Manipulators. Mechanisms and Machine Science, 2018, , 243-253.	0.3	9

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163	Vibration Regulation of Kinematically Constrained Cable-Driven Parallel Robots With Minimum Number of Actuators. IEEE/ASME Transactions on Mechatronics, 2020, 25, 21-31.	3.7	9
164	Wheel Modules With Distributed Controllers: A Multi-Agent Approach to Vehicular Control. IEEE Transactions on Vehicular Technology, 2020, 69, 10879-10888.	3.9	9
165	A Novel Mechanism for Gravity-Balancing of Serial Robots With High-Dexterity Applications. IEEE Transactions on Medical Robotics and Bionics, 2021, 3, 750-761.	2.1	9
166	State of Charge estimation via extended Kalman filter designed for electrochemical equations. IFAC-PapersOnLine, 2017, 50, 2152-2157.	0.5	8
167	Energy Management of Hybrid Electric Vehicles. , 2018, , 159-206.		8
168	Local Path Planning for Autonomous Vehicles: Crash Mitigation. , 2018, , .		8
169	Modeling, tracking, vibration and balance control of an underactuated mobile manipulator (UMM). Control Engineering Practice, 2019, 93, 104159.	3.2	8
170	Active camber system for lateral stability improvement of urban vehicles. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2019, 233, 3824-3838.	1.1	8
171	Development of a novel general reconfigurable vehicle dynamics model. Mechanism and Machine Theory, 2021, 156, 104147.	2.7	8
172	Real-time Pedestrian Localization and State Estimation Using Moving Horizon Estimation. , 2020, , .		8
173	Application of Center Manifold Theory to Regulation of a Flexible Beam. Journal of Vibration and Acoustics, Transactions of the ASME, 1997, 119, 158-165.	1.0	7
174	Optimal actuator placement for vibration control of a planar cable-driven robotic manipulator. , 2016, , .		7
175	Resilient Corner-Based Vehicle Velocity Estimation. IEEE Transactions on Control Systems Technology, 2018, 26, 452-462.	3.2	7
176	Vehicle-trailer lateral velocity estimation using constrained unscented transformation. Vehicle System Dynamics, 2022, 60, 1048-1075.	2.2	7
177	Hitch Angle Estimation of a Towing Vehicle With Arbitrary Configuration. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 7535-7546.	4.7	7
178	Agent-Based Model Predictive Controller (AMPC) for Flexible and Efficient Vehicular Control. IEEE Transactions on Vehicular Technology, 2021, 70, 9877-9885.	3.9	7
179	Real-Time Road Bank Estimation With Disturbance Observers for Vehicle Control Systems. IEEE Transactions on Control Systems Technology, 2022, 30, 443-450.	3.2	7
180	Multiâ€model adaptive predictive control for path following of autonomous vehicles. IET Intelligent Transport Systems, 2020, 14, 2092-2101.	1.7	7

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