

Amir Khajepour

List of Publications by Year in descending order

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235
papers

9,769
citations

38660

50
h-index

51492

86
g-index

239
all docs

239
docs citations

239
times ranked

6197
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Driver Anomaly Detection via Conditional Temporal Proposal and Classification Network. IEEE Transactions on Computational Social Systems, 2023, 10, 736-745.	3.2	5
2	Tabular Learning-Based Traffic Event Prediction for Intelligent Social Transportation System. IEEE Transactions on Computational Social Systems, 2023, 10, 1199-1210.	3.2	4
3	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
4	Vehicle-trailer lateral velocity estimation using constrained unscented transformation. Vehicle System Dynamics, 2022, 60, 1048-1075.	2.2	7
5	Ethical Decision Making in Autonomous Vehicles: Challenges and Research Progress. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 6-17.	2.6	33
6	A Review on Vehicle-Trailer State and Parameter Estimation. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 5993-6010.	4.7	12
7	Hitch Angle Estimation of a Towing Vehicle With Arbitrary Configuration. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 7535-7546.	4.7	7
8	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
9	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
10	A coupled force predictive control of vehicle stability using front/rear torque allocation with experimental verification. Vehicle System Dynamics, 2022, 60, 2541-2563.	2.2	6
11	Road angle estimation for a vehicle-trailer with machine learning and system model-based approaches. Vehicle System Dynamics, 2022, 60, 3583-3604.	2.2	3
12	Redundancy Resolution and Disturbance Rejection via Torque Optimization in Hybrid Cable-Driven Robots. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 4069-4079.	5.9	4
13	Tire Force Estimation in Intelligent Tires Using Machine Learning. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 3565-3574.	4.7	33
14	Slip-aware driver assistance path tracking and stability control. Control Engineering Practice, 2022, 118, 104958.	3.2	17
15	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
16	Intelligent systems using triboelectric, piezoelectric, and pyroelectric nanogenerators. Materials Today, 2022, 52, 188-206.	8.3	38
17	A new adiabatic compressed air energy storage system based on a novel compression strategy. Energy, 2022, 242, 122883.	4.5	11
18	Estimation of Vehicle-Trailer Hitch-Forces and Lateral Tire Forces Independent of Trailer Type and Geometry. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2022, , .	0.9	2

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19	Multi-Actuation Controller for Performance Vehicles: Optimal Torque Allocation and Active Aerodynamic. IEEE Transactions on Vehicular Technology, 2022, 71, 2721-2733.	3.9	3
20	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
21	Improved Vehicle Localization Using On-Board Sensors and Vehicle Lateral Velocity. IEEE Sensors Journal, 2022, 22, 6818-6831.	2.4	64
22	State of Health Estimation of Lithium-Ion Batteries in Electric Vehicles under Dynamic Load Conditions. Energies, 2022, 15, 1234.	1.6	24
23	Agent-Based Model Predictive Controller (AMPC) for Vehicular Stability With Experimental Results. IEEE Transactions on Vehicular Technology, 2022, 71, 7104-7112.	3.9	0
24	Direct tire slip ratio estimation using intelligent tire system and machine learning algorithms. Mechanical Systems and Signal Processing, 2022, 175, 109085.	4.4	13
25	Data-Driven Tire Capacity Estimation With Experimental Verification. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 21569-21581.	4.7	5
26	Model predictive-based tractor-trailer stabilisation using differential braking with experimental verification. Vehicle System Dynamics, 2021, 59, 1190-1213.	2.2	23
27	Integrated Stability Control for Narrow Tilting Vehicles: An Envelope Approach. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 3158-3166.	4.7	10
28	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
29	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
30	Development of a novel general reconfigurable vehicle dynamics model. Mechanism and Machine Theory, 2021, 156, 104147.	2.7	8
31	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
32	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
33	Variable-Structure Cable-Driven Parallel Robots. Mechanisms and Machine Science, 2021, , 206-214.	0.3	2
34	H-Infinity Shifting Control in a Dual-Speed Transmission for Electric Vehicle. International Journal of Automotive Technology, 2021, 22, 155-164.	0.7	6
35	Agent-Based Model Predictive Controller (AMPC) for Flexible and Efficient Vehicular Control. IEEE Transactions on Vehicular Technology, 2021, 70, 9877-9885.	3.9	7
36	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

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37	An Integrated Control Approach for the Combined Longitudinal and Lateral Vehicle Following Problem. , 2021, , .		3
38	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
39	An Intelligent Control of Electronic Limited Slip Differential for Improving Vehicle Yaw Stability. IEEE Transactions on Vehicular Technology, 2021, 70, 8669-8681.	3.9	3
40	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
41	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
42	Integrated Crash Avoidance and Mitigation Algorithm for Autonomous Vehicles. IEEE Transactions on Industrial Informatics, 2021, 17, 7246-7255.	7.2	30
43	Planar Variable Structure Cable-Driven Parallel Robots for Circumventing Obstacles. Journal of Mechanisms and Robotics, 2021, 13, .	1.5	12
44	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
45	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
46	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
47	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
48	Trailer Mass Estimation Using System Model-Based and Machine Learning Approaches. IEEE Transactions on Vehicular Technology, 2020, 69, 12536-12546.	3.9	19
49	Wheel Modules With Distributed Controllers: A Multi-Agent Approach to Vehicular Control. IEEE Transactions on Vehicular Technology, 2020, 69, 10879-10888.	3.9	9
50	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
51	Reconfigurable Model Predictive Control for Articulated Vehicle Stability With Experimental Validation. IEEE Transactions on Transportation Electrification, 2020, 6, 308-317.	5.3	32
52	Static Workspace Optimization of Aerial Cable Towed Robots With Land-Fixed Winches. IEEE Transactions on Robotics, 2020, 36, 1603-1610.	7.3	17
53	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
54	Multi-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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55	Vehicle Stability Control: Model Predictive Approach and Combined-Slip Effect. IEEE/ASME Transactions on Mechatronics, 2020, 25, 2789-2800.	3.7	31
56	Real-time Pedestrian Localization and State Estimation Using Moving Horizon Estimation. , 2020, , .		8
57	State-of-Charge Estimation Using an EKF-Based Adaptive Observer. IEEE Transactions on Control Systems Technology, 2019, 27, 1907-1923.	3.2	48
58	Tire Condition Monitoring and Intelligent Tires Using Nanogenerators Based on Piezoelectric, Electromagnetic, and Triboelectric Effects. Advanced Materials Technologies, 2019, 4, 1800105.	3.0	57
59	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
60	Cooperative Vehicle Speed Fault Diagnosis and Correction. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 783-789.	4.7	31
61	Narrow Tilting Vehicles: Mechanism, Dynamics, and Control. Synthesis Lectures on Advances in Automotive Technology, 2019, 3, 1-87.	0.2	0
62	Study on Rollover Index and Stability for a Triaxle Bus. Chinese Journal of Mechanical Engineering (English Edition), 2019, 32, .	1.9	19
63	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
64	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
65	Embedded self-powered sensing systems for smart vehicles and intelligent transportation. Nano Energy, 2019, 66, 104103.	8.2	73
66	Energy management for a power-split hybrid electric bus via deep reinforcement learning with terrain information. Applied Energy, 2019, 255, 113762.	5.1	102
67	Modeling, tracking, vibration and balance control of an underactuated mobile manipulator (UMM). Control Engineering Practice, 2019, 93, 104159.	3.2	8
68	A study on actuator delay compensation using predictive control technique with experimental verification. Mechatronics, 2019, 57, 140-149.	2.0	15
69	Comparative study on the economy of hybrid mining trucks for open-pit mining. IET Intelligent Transport Systems, 2019, 13, 201-208.	1.7	15
70	Crash Mitigation in Motion Planning for Autonomous Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 3313-3323.	4.7	150
71	A comprehensive review of the key technologies for pure electric vehicles. Energy, 2019, 182, 824-839.	4.5	339
72	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

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73	Multiaxis Reaction System (MARS) for Vibration Control of Planar Cable-Driven Parallel Robots. IEEE Transactions on Robotics, 2019, 35, 1039-1046.	7.3	21
74	Decoupled modeling and model predictive control of a hybrid cable-driven robot (HCDR). Robotics and Autonomous Systems, 2019, 118, 1-12.	3.0	35
75	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
76	Cyber-Physical Predictive Energy Management for Through-the-Road Hybrid Vehicles. IEEE Transactions on Vehicular Technology, 2019, 68, 3246-3256.	3.9	27
77	Fault Tolerant Consensus for Vehicle State Estimation: A Cyber-Physical Approach. IEEE Transactions on Industrial Informatics, 2019, 15, 5129-5138.	7.2	27
78	Rollover prevention for a heavy vehicle using optimised slide mode steering control. International Journal of Heavy Vehicle Systems, 2019, 26, 351.	0.1	1
79	Integrated model predictive and torque vectoring control for path tracking of 4-wheel-driven autonomous vehicles. IET Intelligent Transport Systems, 2019, 13, 98-107.	1.7	47
80	Research on the energy control of a dual-motor hybrid vehicle during engine start-stop process. Energy, 2019, 166, 1181-1193.	4.5	92
81	A Reconfigurable Integrated Control for Narrow Tilting Vehicles. IEEE Transactions on Vehicular Technology, 2019, 68, 234-244.	3.9	19
82	Development of A Novel Integrated Corner Module for Narrow Urban Vehicles. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2019, 233, 548-556.	1.1	4
83	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
84	A Novel Reconfigurable Integrated Vehicle Stability Control With Omni Actuation Systems. IEEE Transactions on Vehicular Technology, 2018, 67, 2945-2957.	3.9	31
85	Improving energy efficiency and robustness of a novel variable valve actuation system for engines. Mechatronics, 2018, 50, 121-133.	2.0	12
86	Vibration Decoupled Modeling and Robust Control of Redundant Cable-Driven Parallel Robots. IEEE/ASME Transactions on Mechatronics, 2018, 23, 690-701.	3.7	63
87	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
88	Energy Management of Hybrid Electric Vehicles. , 2018, , 159-206.		8
89	A flexible hybridized electromagnetic-triboelectric multi-purpose self-powered sensor. Nano Energy, 2018, 45, 319-329.	8.2	52
90	Multi-axle/articulated bus dynamics modeling: a reconfigurable approach. Vehicle System Dynamics, 2018, 56, 1315-1343.	2.2	32

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91	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
92	Application of Lexicographic Optimization Method to Integrated Vehicle Control Systems. IEEE Transactions on Industrial Electronics, 2018, 65, 9677-9686.	5.2	23
93	Resilient Corner-Based Vehicle Velocity Estimation. IEEE Transactions on Control Systems Technology, 2018, 26, 452-462.	3.2	7
94	Transverse Vibration Control in Planar Cable-Driven Robotic Manipulators. Mechanisms and Machine Science, 2018, , 243-253.	0.3	9
95	Design and analysis of an integrated suspension tilting mechanism for narrow urban vehicles. Mechanism and Machine Theory, 2018, 120, 225-238.	2.7	13
96	A new coordinated control strategy for tracked vehicle ride comfort. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2018, 232, 330-341.	0.5	4
97	A comparative study of equivalent modelling for multi-axle vehicle. Vehicle System Dynamics, 2018, 56, 443-460.	2.2	19
98	Opinion Dynamics-Based Vehicle Velocity Estimation and Diagnosis. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 2142-2148.	4.7	21
99	A combined-slip predictive control of vehicle stability with experimental verification. Vehicle System Dynamics, 2018, 56, 319-340.	2.2	32
100	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
101	Local Path Planning for Autonomous Vehicles: Crash Mitigation. , 2018, , .		8
102	Piezoelectric and triboelectric nanogenerators: Trends and impacts. Nano Today, 2018, 22, 10-13.	6.2	121
103	A flexible tube-based triboelectric-electromagnetic sensor for knee rehabilitation assessment. Sensors and Actuators A: Physical, 2018, 279, 694-704.	2.0	22
104	Model predictive control of vehicle roll-over with experimental verification. Control Engineering Practice, 2018, 77, 95-108.	3.2	24
105	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
106	A New Low-Profile Electromagnetic-Pneumatic Actuator for High-Bandwidth Applications. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2207-2217.	3.7	4
107	Autonomous driving motion planning with obstacles prioritization using lexicographic optimization. Control Engineering Practice, 2018, 77, 235-246.	3.2	24
108	Design of a Regenerative Auxiliary Power System for Service Vehicles. Automotive Innovation, 2018, 1, 62-69.	3.1	3

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109	Smart Charging and Anti-Idling Systems. Synthesis Lectures on Advances in Automotive Technology, 2018, 2, 1-90.	0.2	0
110	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
111	Out-of-Plane Vibration Control of a Planar Cable-Driven Parallel Robot. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1684-1692.	3.7	34
112	Mechanical properties and microstructures in zirconium deposited by injected powder laser additive manufacturing. Additive Manufacturing, 2018, 22, 537-547.	1.7	15
113	Anti-idling systems for service vehicles: Modeling and experiments. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2018, 232, 49-68.	0.5	1
114	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
115	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
116	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
117	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
118	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
119	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
120	Corner-based estimation of tire forces and vehicle velocities robust to road conditions. Control Engineering Practice, 2017, 61, 28-40.	3.2	56
121	Real-time estimation of the road bank and grade angles with unknown input observers. Vehicle System Dynamics, 2017, 55, 648-667.	2.2	28
122	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
123	Longitudinal vehicle state estimation using nonlinear and parameter-varying observers. Mechatronics, 2017, 43, 28-39.	2.0	37
124	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
125	Modular integrated longitudinal and lateral vehicle stability control for electric vehicles. Mechatronics, 2017, 44, 60-70.	2.0	83
126	A novel energy management for hybrid off-road vehicles without future driving cycles as a priori. Energy, 2017, 133, 929-940.	4.5	41

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127	Thermal monitoring of microstructure and carbide morphology in direct metal deposition of Fe-Ti-C metal matrix composites. <i>Journal of Alloys and Compounds</i> , 2017, 710, 20-28.	2.8	14
128	Rollover stabilities of three-wheeled vehicles including road configuration effects. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2017, 231, 859-871.	1.1	16
129	An adaptive model predictive controller for a novel battery-powered anti-idling system of service vehicles. <i>Energy</i> , 2017, 127, 318-327.	4.5	33
130	A novel anti-idling system for service vehicles. <i>Energy</i> , 2017, 127, 650-659.	4.5	3
131	Model predictive control power management strategies for HEVs: A review. <i>Journal of Power Sources</i> , 2017, 341, 91-106.	4.0	409
132	An energy-saving set-point optimizer with a sliding mode controller for automotive air-conditioning/refrigeration systems. <i>Applied Energy</i> , 2017, 188, 576-585.	5.1	52
133	A hybridized electromagnetic-triboelectric self-powered sensor for traffic monitoring: concept, modelling, and optimization. <i>Nano Energy</i> , 2017, 32, 105-116.	8.2	87
134	Kinematically-Constrained Redundant Cable-Driven Parallel Robots: Modeling, Redundancy Analysis, and Stiffness Optimization. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017, 22, 921-930.	3.7	64
135	Model predictive control of vehicle stability using coordinated active steering and differential brakes. <i>Mechatronics</i> , 2017, 48, 30-41.	2.0	80
136	State of Charge estimation via extended Kalman filter designed for electrochemical equations. <i>IFAC-PapersOnLine</i> , 2017, 50, 2152-2157.	0.5	8
137	A Triboelectric Self-Powered Sensor for Tire Condition Monitoring: Concept, Design, Fabrication, and Experiments. <i>Advanced Engineering Materials</i> , 2017, 19, 1700318.	1.6	36
138	Integrated model predictive control and velocity estimation of electric vehicles. <i>Mechatronics</i> , 2017, 46, 84-100.	2.0	59
139	Electrification of Heavy-Duty Construction Vehicles. <i>Synthesis Lectures on Advances in Automotive Technology</i> , 2017, 1, 1-106.	0.2	1
140	Handling Delays in Yaw Rate Control of Electric Vehicles Using Model Predictive Control With Experimental Verification. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2017, 139, .	0.9	18
141	Development of a new fully flexible hydraulic variable valve actuation system for engines using rotary spool valves. <i>Mechatronics</i> , 2017, 46, 1-20.	2.0	24
142	A Potential Field-Based Model Predictive Path-Planning Controller for Autonomous Road Vehicles. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2017, 18, 1255-1267.	4.7	438
143	Optimization of Novel Corner Module for Urban Electric Vehicle. , 2017, , .		1
144	Integrated stability and traction control for electric vehicles using model predictive control. <i>Control Engineering Practice</i> , 2016, 54, 256-266.	3.2	76

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145	A predictive power management controller for service vehicle anti-idling systems without a priori information. Applied Energy, 2016, 182, 548-557.	5.1	30
146	Integrating the effect of driver to improve handling performance of vehicle. IFAC-PapersOnLine, 2016, 49, 395-400.	0.5	1
147	Optimal actuator placement for vibration control of a planar cable-driven robotic manipulator. , 2016, , .		7
148	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
149	Model predictive control-based energy management strategy for a series hybrid electric tracked vehicle. Applied Energy, 2016, 182, 105-114.	5.1	137
150	Stability and optimised control of tripped and untripped vehicle rollover. Vehicle System Dynamics, 2016, 54, 1405-1427.	2.2	36
151	Optimal energy-efficient predictive controllers in automotive air-conditioning/refrigeration systems. Applied Energy, 2016, 184, 605-618.	5.1	53
152	Estimation of longitudinal speed robust to road conditions for ground vehicles. Vehicle System Dynamics, 2016, 54, 1120-1146.	2.2	26
153	An Optimal Torque Vectoring Control for Vehicle Applications via Real-Time Constraints. IEEE Transactions on Vehicular Technology, 2016, 65, 4368-4378.	3.9	47
154	Processing window development for laser cladding of zirconium on zirconium alloy. Journal of Materials Processing Technology, 2016, 230, 263-271.	3.1	50
155	Effect of real-time cooling rate on microstructure in Laser Additive Manufacturing. Journal of Materials Processing Technology, 2016, 231, 468-478.	3.1	242
156	Integrated torque vectoring and power management framework for electric vehicles. Control Engineering Practice, 2016, 48, 22-36.	3.2	43
157	Real-time control of microstructure in laser additive manufacturing. International Journal of Advanced Manufacturing Technology, 2016, 82, 1173-1186.	1.5	95
158	A new adaptive hybrid electromagnetic damper: modelling, optimization, and experiment. Smart Materials and Structures, 2015, 24, 075003.	1.8	45
159	Electrothermomechanical modeling of out-of-plane deformation in single-stepped beams actuated by resistive heating. Journal of Micromechanics and Microengineering, 2015, 25, 035028.	1.5	5
160	An integrated vehicle dynamic control strategy for three-wheeled vehicles. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2015, 229, 225-244.	0.5	5
161	An optimal torque distribution control strategy for four-independent wheel drive electric vehicles. Vehicle System Dynamics, 2015, 53, 1172-1189.	2.2	103
162	Torque-Vectoring-Based Vehicle Control Robust to Driver Uncertainties. IEEE Transactions on Vehicular Technology, 2015, 64, 3359-3367.	3.9	20

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163	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
164	Enhanced electric vehicle efficiency via wheel torque redistribution. , 2014, , .		3
165	A new optimal driver command interpreter for vehicle dynamics control. , 2014, , .		4
166	Constrained Holistic Cornering Control. , 2014, , .		6
167	Hybrid variable damping control: design, simulation, and optimization. Microsystem Technologies, 2014, 20, 1723-1732.	1.2	21
168	Robust Estimation and Experimental Evaluation of Longitudinal Friction Forces in Ground Vehicles. , 2014, , .		6
169	Analysis of a High Stiffness Warehousing Cable-Based Robot. , 2014, , .		5
170	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
171	Vehicle Optimal Torque Vectoring Using State-Derivative Feedback and Linear Matrix Inequality. IEEE Transactions on Vehicular Technology, 2013, 62, 1540-1552.	3.9	122
172	Clad height control in laser cladding using a nonlinear optimal output tracking controller. , 2013, , .		1
173	System identification and height control of laser cladding using adaptive neuro-fuzzy inference systems. , 2013, , .		6
174	A new pneumatic suspension system with independent stiffness and ride height tuning capabilities. Vehicle System Dynamics, 2012, 50, 1735-1746.	2.2	35
175	Kinetostatic analysis of hybrid cable-based manipulators with linkage. , 2012, , .		1
176	Tribology characteristics of in-situ laser deposition of Fe-TiC. Surface and Coatings Technology, 2012, 206, 4495-4501.	2.2	44
177	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
178	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
179	An Air Hybrid Engine With Higher Efficiency and Cam-Based Valvetrain System. , 2012, , .		0
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