

# Tielong Shen

## List of Publications by Citations

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

195 papers	1,642 citations	21 h-index	33 g-index
252 ext. papers	2,201 ext. citations	2.7 avg, IF	5.69 L-index

#	Paper	IF	Citations
195	Optimal control of Boolean control networks with average cost: A policy iteration approach. <i>Automatica</i> , <b>2019</b> , 100, 378-387	5.7	89
194	An algebraic expression of finite horizon optimal control algorithm for stochastic logical dynamical systems. <i>Systems and Control Letters</i> , <b>2015</b> , 82, 108-114	2.4	76
193	Adaptive nonlinear excitation control with L2 disturbance attenuation for power systems. <i>Automatica</i> , <b>2003</b> , 39, 81-89	5.7	65
192	Real-Time Fuel Economy Optimization With Nonlinear MPC for PHEVs. <i>IEEE Transactions on Control Systems Technology</i> , <b>2016</b> , 24, 2167-2175	4.8	64
191	Nonlinear decentralized disturbance attenuation excitation control via new recursive design for multi-machine power systems. <i>IEEE Transactions on Power Systems</i> , <b>2001</b> , 16, 729-736	7	64
190	An Adaptive Servo Control Strategy for Automotive Electronic Throttle and Experimental Validation. <i>IEEE Transactions on Industrial Electronics</i> , <b>2014</b> , 61, 6275-6284	8.9	59
189	A Finite Convergence Criterion for the Discounted Optimal Control of Stochastic Logical Networks. <i>IEEE Transactions on Automatic Control</i> , <b>2018</b> , 63, 262-268	5.9	57
188	A stochastic logical system approach to model and optimal control of cyclic variation of residual gas fraction in combustion engines. <i>Applied Thermal Engineering</i> , <b>2016</b> , 93, 251-259	5.8	49
187	Policy Iteration Approach to Control Residual Gas Fraction in IC Engines Under the Framework of Stochastic Logical Dynamics. <i>IEEE Transactions on Control Systems Technology</i> , <b>2017</b> , 25, 1100-1107	4.8	46
186	Adaptive L2 Disturbance Attenuation Of Hamiltonian Systems With Parametric Perturbation And Application To Power Systems. <i>Asian Journal of Control</i> , <b>2008</b> , 5, 143-152	1.7	40
185	Policy Iteration Algorithm for Optimal Control of Stochastic Logical Dynamical Systems. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2018</b> , 29, 2031-2036	10.3	31
184	Model-based cold-start speed control scheme for spark ignition engines. <i>Control Engineering Practice</i> , <b>2010</b> , 18, 1285-1294	3.9	31
183	Spark advance self-optimization with knock probability threshold for lean-burn operation mode of SI engine. <i>Energy</i> , <b>2017</b> , 122, 1-10	7.9	29
182	Look-Ahead Prediction-Based Real-Time Optimal Energy Management for Connected HEVs. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 2537-2551	6.8	29
181	A statistical combustion phase control approach of SI engines. <i>Mechanical Systems and Signal Processing</i> , <b>2017</b> , 85, 218-235	7.8	27
180	Input Observer-Based Individual Cylinder Air-Fuel Ratio Control: Modelling, Design and Validation. <i>IEEE Transactions on Control Systems Technology</i> , <b>2008</b> , 16, 1057-1065	4.8	26
179	Optimal control of power-split hybrid electric powertrains with minimization of energy consumption. <i>Applied Energy</i> , <b>2020</b> , 266, 114873	10.7	25

178	SDP Policy Iteration-Based Energy Management Strategy Using Traffic Information for Commuter Hybrid Electric Vehicles. <i>Energies</i> , <b>2014</b> , 7, 4648-4675	3.1	24
177	An On-Board Calibration Scheme for Map-Based Combustion Phase Control of Spark-Ignition Engines. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2017</b> , 22, 1485-1496	5.5	22
176	On-line statistical combustion phase optimization and control of SI gasoline engines. <i>Applied Thermal Engineering</i> , <b>2017</b> , 112, 1396-1407	5.8	21
175	Torque Observers Design for Spark Ignition Engines With Different Intake Air Measurement Sensors. <i>IEEE Transactions on Control Systems Technology</i> , <b>2011</b> , 19, 229-237	4.8	21
174	Lyapunov recursive design of robust adaptive tracking control with L 2-gain performance for electrically-driven robot manipulators. <i>International Journal of Control</i> , <b>2001</b> , 74, 811-828	1.5	21
173	In-cylinder pressure-based air-fuel ratio control for lean burn operation mode of SI engines. <i>Energy</i> , <b>2017</b> , 120, 106-116	7.9	20
172	A Model-Predictive-Control-Based Torque Demand Control Approach for Parallel Hybrid Powertrains. <i>IEEE Transactions on Vehicular Technology</i> , <b>2013</b> , 62, 1041-1052	6.8	20
171	Adaptive control approach to uncertain longitudinal tire slip in traction control of vehicles. <i>Asian Journal of Control</i> , <b>2008</b> , 10, 67-73	1.7	20
170	Experimental Validation of a Likelihood-Based Stochastic Knock Controller. <i>IEEE Transactions on Control Systems Technology</i> , <b>2016</b> , 24, 1407-1418	4.8	19
169	Combustion variation control strategy with thermal efficiency optimization for lean combustion in spark-ignition engines. <i>Applied Energy</i> , <b>2019</b> , 251, 113329	10.7	18
168	A survey on online learning and optimization for spark advance control of SI engines. <i>Science China Information Sciences</i> , <b>2018</b> , 61, 1	3.4	18
167	Model-Based Stochastic Optimal AirFuel Ratio Control With Residual Gas Fraction of Spark Ignition Engines. <i>IEEE Transactions on Control Systems Technology</i> , <b>2014</b> , 22, 896-910	4.8	16
166	Cylinder pressure based combustion phase optimization and control in spark-ignited engines. <i>Control Theory and Technology</i> , <b>2017</b> , 15, 83-91	1	16
165	On-board knock probability map learningBased spark advance control for combustion engines. <i>International Journal of Engine Research</i> , <b>2019</b> , 20, 1073-1088	2.7	14
164	Absolute stability of the Kirchhoff string with sector boundary control. <i>Automatica</i> , <b>2014</b> , 50, 1915-1921	5.7	14
163	Individual A/F Estimation and Control With the FuelGas Ratio for Multicylinder IC Engines. <i>IEEE Transactions on Vehicular Technology</i> , <b>2009</b> , 58, 4757-4768	6.8	14
162	Linear dynamic games with polytope strategy sets. <i>IET Control Theory and Applications</i> , <b>2017</b> , 11, 2146-2151	15.1	14
161	Experimental comparisons of hypothesis test and moving average based combustion phase controllers. <i>ISA Transactions</i> , <b>2016</b> , 65, 504-515	5.5	14

160	Real-time statistical learning-based stochastic knock limit control for spark-ignition engines. <i>Applied Thermal Engineering</i> , <b>2017</b> , 127, 1518-1529	5.8	13
159	Cylinder pressure resonant frequency cyclic estimation-based knock intensity metric in combustion engines. <i>Applied Thermal Engineering</i> , <b>2019</b> , 158, 113756	5.8	13
158	Estimation and feedback control of air-fuel ratio for gasoline engines. <i>Control Theory and Technology</i> , <b>2015</b> , 13, 151-159	1	13
157	Adaptive air-fuel ratio control scheme and its experimental validations for port-injected spark ignition engines. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2015</b> , 29, 41-63	2.8	12
156	Logical control scheme with real-time statistical learning for residual gas fraction in IC engines. <i>Science China Information Sciences</i> , <b>2018</b> , 61, 1	3.4	11
155	Riccati equation approach to robust L 2-gain synthesis for a class of uncertain nonlinear systems. <i>International Journal of Control</i> , <b>1996</b> , 64, 1177-1188	1.5	11
154	Challenges and solutions in automotive powertrain systems. <i>Journal of Control and Decision</i> , <b>2018</b> , 5, 61-93	0.9	11
153	Absolute stability of the axially moving Kirchhoff string with a sector boundary feedback control. <i>Nonlinear Dynamics</i> , <b>2015</b> , 80, 9-22	5	10
152	Pseudo-Hamiltonian realization and its application. <i>Communications in Information and Systems</i> , <b>2002</b> , 2, 91-120	0.8	10
151	Gaussian Mixture Model Clustering-Based Knock Threshold Learning in Automotive Engines. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2020</b> , 25, 2981-2991	5.5	9
150	Reach Control Problem for Linear Differential Inclusion Systems on Simplices. <i>IEEE Transactions on Automatic Control</i> , <b>2016</b> , 61, 1403-1408	5.9	9
149	Cooperative shift estimation of target trajectory using clustered sensors. <i>Journal of Systems Science and Complexity</i> , <b>2014</b> , 27, 413-429	1	9
148	Short-Term Optimal Energy Management of Power-Split Hybrid Electric Vehicles Under Velocity Tracking Control. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 182-193	6.8	9
147	Adaptive idling control scheme and its experimental validation for gasoline engines. <i>Science China Information Sciences</i> , <b>2017</b> , 60, 1	3.4	8
146	Logical control approach to fuel efficiency optimization for commuting vehicles. <i>International Journal of Automotive Technology</i> , <b>2017</b> , 18, 535-546	1.6	8
145	Robust Nonlinear Control of Parametric Uncertain Systems With Unknown Friction and Its Application to a Pneumatic Control Valve. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2000</b> , 122, 257-262	1.6	8
144	Transient Control of Gasoline Engines		8
143	Nonlinear and Adaptive Nonlinear Controllers for Attitude Stabilization and Tracking of a Spacecraft. <i>Transactions of the Japan Society for Aeronautical and Space Sciences</i> , <b>2005</b> , 48, 7-12	0.8	8

- 142 A fuzzy logic map-based knock control for spark ignition engines. *Applied Energy*, **2020**, 280, 116036 10.7 8
- 141 Probabilistic Guaranteed Gradient Learning-Based Spark Advance Self-Optimizing Control for Spark-Ignited Engines. *IEEE Transactions on Neural Networks and Learning Systems*, **2018**, 29, 4683-4693 10.3 7
- 140 Receding horizon online optimization for torque control of gasoline engines. *ISA Transactions*, **2016**, 65, 371-383 5.5 7
- 139 Continuation/GMRES Method based Nonlinear Model Predictive Control for IC Engines. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2014**, 47, 5697-5702 7
- 138 Stationary Set Analysis for PD Controlled Mechanical Systems. *IEEE Transactions on Control Systems Technology*, **2011**, 19, 1236-1244 4.8 7
- 137 Recursive design of nonlinearH<sub>2</sub> excitation controller. *Science in China Series D: Earth Sciences*, **2000**, 43, 23-31 7
- 136 Recent advances in optimization and game theoretic control for networked systems. *Asian Journal of Control*, **2019**, 21, 2493-2512 1.7 7
- 135 Control of hydraulic turbine generators using exact feedback linearization **2010**, 6
- 134 Cyclic moving average control approach to cylinder pressure and its experimental validation. *Journal of Control Theory and Applications*, **2009**, 7, 345-351 6
- 133 New approaching condition for sliding mode control design with Lipschitz switching surface. *Science in China Series F: Information Sciences*, **2009**, 52, 2032-2044 6
- 132 Adaptive control design for a class of nonsmooth nonlinear systems with matched and linearly parameterized uncertainty. *International Journal of Robust and Nonlinear Control*, **2009**, 19, 243-255 3.6 6
- 131 Coordinated Nonlinear Speed Control Approach for SI Engine With Alternator. *Proceedings of the IEEE*, **2007**, 95, 796-805 14.3 6
- 130 High precision feedback control design for dual-actuator systems 6
- 129 Stochastic Knock Control with Beta Distribution Learning for Gasoline Engines. *IFAC-PapersOnLine*, **2018**, 51, 125-130 0.7 6
- 128 Lyapunov-Based Nonlinear Feedback Control Design for Exhaust Gas Recirculation Loop of Gasoline Engines. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2019**, 141, 1.6 5
- 127 Chaos theory-based time series analysis of in-cylinder pressure and its application in combustion control of SI engines. *Journal of Thermal Science and Technology*, **2020**, 15, JTST0001-JTST0001 0.6 5
- 126 Equivalence-Based Model of Dimension-Varying Linear Systems. *IEEE Transactions on Automatic Control*, **2020**, 65, 5444-5449 5.9 5
- 125 Cyclic model based generalized predictive control of air-fuel ratio for gasoline engines. *Journal of Thermal Science and Technology*, **2016**, 11, JTST0009-JTST0009 0.6 5

124	Combustion Phase Control of SI Gasoline Engines Using Hypothesis Test. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 153-158	0.7	5
123	Design and Validation of a Model-Based Starting Speed Control Scheme for Spark Ignition Engines. <i>Asian Journal of Control</i> , <b>2015</b> , 17, 1255-1266	1.7	5
122	Nonlinear model predictive torque control for IC engines <b>2014</b> ,		5
121	Model predictive control of gasoline engines with nonlinear feedback linearized model <b>2014</b> ,		5
120	Benchmark problem for automotive engine control <b>2007</b> ,		5
119	Passivity-based robust feedback control for non-linear systems with input dynamical uncertainty. <i>International Journal of Control</i> , <b>2004</b> , 77, 517-526	1.5	5
118	Real-time scenario-based stochastic optimal energy management strategy for HEVs <b>2016</b> ,		5
117	Two-stage on-board optimization of merging velocity planning with energy management for HEVs. <i>Control Theory and Technology</i> , <b>2019</b> , 17, 335-345	1	5
116	Dynamical model of HEV with two planetary gear units and its application to optimization of energy consumption. <i>Science China Information Sciences</i> , <b>2019</b> , 62, 1	3.4	5
115	Normal-gamma distributionBased stochastic knock probability control scheme for spark-ignition engines. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , <b>2020</b> , 234, 1986-2000	1.4	5
114	Nonlinear observer-based exhaust manifold pressure estimation and fault detection for gasoline engines with exhaust gas recirculation. <i>International Journal of Engine Research</i> , <b>2021</b> , 22, 1377-1392	2.7	5
113	Adaptive Lean Air-Fuel Ratio Control and Analysis of Commercial Gasoline Engines. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 423-428	0.7	5
112	Cylinder pressure sensor-based real-time combustion phase control approach for SI engines. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , <b>2017</b> , 12, 244-250	1	4
111	Regenerative braking torque estimation and control approaches for a hybrid electric truck <b>2010</b> ,		4
110	Bearing-Based Adaptive Neural Formation Scaling Control for Autonomous Surface Vehicles With Uncertainties and Input Saturation. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2021</b> , 32, 4653-4664	10.3	4
109	Model-free reinforcement learning approach to optimal speed control of combustion engines in start-up mode. <i>Control Engineering Practice</i> , <b>2021</b> , 111, 104791	3.9	4
108	Conservation law-based air mass flow calculation in engine intake systems. <i>Science China Information Sciences</i> , <b>2016</b> , 59, 1	3.4	4
107	Optimal control design for comfortable-driving of hybrid electric vehicles in acceleration mode. <i>Applied Energy</i> , <b>2022</b> , 305, 117885	10.7	4

106	Air-fuel ratio control with stochastic L 2 disturbance attenuation in gasoline engines. <i>Journal of Control Theory and Applications</i> , <b>2013</b> , 11, 586-591		3
105	MPC-Based Speed Tracking Control Design for Spark-Ignition Engines. <i>SICE Journal of Control Measurement and System Integration</i> , <b>2015</b> , 8, 201-208	0.3	3
104	EV bus system control strategy design with consideration of battery lifetime model <b>2012</b> ,		3
103	Tuning of nonlinear model predictive controller for the speed control of spark ignition engines <b>2013</b> ,		3
102	L2-gain analysis and feedback design for discontinuous time-delay systems based on functional differential inclusion <b>2009</b> ,		3
101	Lyapunov-based feedback design and experimental verification of IC engine speed control. <i>International Journal of Control, Automation and Systems</i> , <b>2009</b> , 7, 659-667	2.9	3
100	State feedback stabilization of cascaded nonlinear systems with discontinuous connection. <i>Journal of Control Theory and Applications</i> , <b>2008</b> , 6, 45-52		3
99	Individual A/F Control with Fuel-Gas Ratio Estimation for Multi-cylinder IC Engines. <i>Proceedings of the American Control Conference</i> , <b>2007</b> ,	1.2	3
98	Model-Free Reinforcement Learning by Embedding an Auxiliary System for Optimal Control of Nonlinear Systems. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2020</b> , PP,	10.3	3
97	Stability and Feedback Design of a Class of Time-Delay Systems with Discontinuity: Functional Differential Inclusion-Based Approach. <i>IEEE Transactions on Electronics, Information and Systems</i> , <b>2009</b> , 129, 1108-1114	0.1	3
96	MPC-Based Optimal Control for Diesel Engine Coupled with Lean NOx Trap System. <i>SICE Journal of Control Measurement and System Integration</i> , <b>2019</b> , 12, 94-101	0.3	3
95	A Design Method of Adaptive Robust Controller for Nonlinear Systems with Modelling Errors. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>1998</b> , 34, 1388-1394	0.1	3
94	Symbol-sequence statistics-based cylinder-to-cylinder variation control in spark-ignition engines. <i>Applied Energy</i> , <b>2020</b> , 261, 114406	10.7	3
93	Nonlinear Constrained Torque Control For Gasoline Engines. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 784-789	0.7	3
92	Decentralized Optimal Merging Control With Optimization of Energy Consumption for Connected Hybrid Electric Vehicles. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2021</b> , 1-13	6.1	3
91	Combustion Variation Feedback Control Approach for Multi-cylinder Spark Ignition Engines. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 105-110	0.7	3
90	Chance-Constrained Optimization for Torque Tracking Control with Improving Fuel Economy in Spark-Ignition Engines. <i>SICE Journal of Control Measurement and System Integration</i> , <b>2018</b> , 11, 365-371	0.3	3
89	Real-Time HEV Energy Management Strategy considering Road Congestion Based on Deep Reinforcement Learning. <i>Energies</i> , <b>2021</b> , 14, 5270	3.1	3



88	On-Board map learning-based combustion phase control in spark ignition engines <b>2017</b> ,		2
87	Experimental comparisons between LQR and MPC for spark-ignition engine control problem <b>2017</b> ,		2
86	Simulation of knock probability in an internal combustion engine. <i>Physical Review E</i> , <b>2018</b> , 98, 012102	2.4	2
85	Look-Ahead Traffic-Based Optimal Velocity Planning for Parallel HEVs. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 580-585	0.7	2
84	Stochastic adaptive air-fuel ratio control of spark ignition engines. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , <b>2014</b> , 9, 442-447	1	2
83	Common Quadratic Lyapunov Function for Two Classes of Special Switched Linear Systems. <i>IEICE Transactions on Information and Systems</i> , <b>2014</b> , E97.D, 175-183	0.6	2
82	Energy management strategy design for plug-in hybrid electric vehicles with continuation/GMRES algorithm <b>2015</b> ,		2
81	Adaptive time delay compensation for air-fuel ratio control of a port injection SI engine <b>2015</b> ,		2
80	Modeling and Experimental Validation of Air-Fuel Ratio under Individual Cylinder Fuel Injection in Gasoline Engines. <i>IEEJ Journal of Industry Applications</i> , <b>2012</b> , 1, 155-163	0.7	2
79	Feedback stabilization for a class of discontinuous systems driven by integrator. <i>Journal of Control Theory and Applications</i> , <b>2013</b> , 11, 268-274		2
78	A Torque Demand Strategy of IC Engines for Fuel Consumption Improvement using Traffic Information. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2013</b> , 46, 700-705		2
77	Modeling and Control for Engine-in-the-Loop Simulation System. <i>Journal of System Design and Dynamics</i> , <b>2013</b> , 7, 428-440		2
76	Nonlinear Speed Control Scheme and Its Stability Analysis for SI Engines. <i>SICE Journal of Control Measurement and System Integration</i> , <b>2010</b> , 3, 43-49	0.3	2
75	Receding horizon optimal control of HEVs with on-board prediction of driver's power demand. <i>IET Intelligent Transport Systems</i> , <b>2020</b> , 14, 1534-1545	2.4	2
74	Globally Robust Stabilization of Nonlinear Systems Having Relative Degree One via Passivity Theory. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>1998</b> , 34, 577-583	0.1	2
73	Real-time control algorithm for minimising energy consumption in parallel hybrid electric vehicles. <i>IET Electrical Systems in Transportation</i> , <b>2020</b> , 10, 331-340	2.1	2
72	D-optimization based mapping calibration of air mass flow in combustion engines <b>2016</b> ,		2
71	Beta-Distribution-Based Knock Probability Estimation, Control Scheme, and Experimental Validation for SI Engines. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 29, 918-925	4.8	2



70	Symbolic Statistical Analysis of Cylinder-to-cylinder Imbalance in Gasoline Engine. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 63-67	0.7	2
69	Distributed optimal energy consumption control of HEVs under MFG-based speed consensus. <i>Control Theory and Technology</i> , <b>2020</b> , 18, 193-203	1	1
68	Combustion phase and RGF control based on multivariate statistical criterion <b>2017</b> ,		1
67	Nonlinear observer-based control design and experimental validation for gasoline engines with EGR. <i>Control Theory and Technology</i> , <b>2019</b> , 17, 216-227	1	1
66	Combustion Variation Control Strategy with Thermal Efficiency Optimization Consideration in Lean Condition. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 618-623	0.7	1
65	Optimal control design for lean NOx trap regeneration in diesel engines <b>2017</b> ,		1
64	Notice of Removal: Optimal calibration of VVT by extremal seeking in combustion engines <b>2015</b> ,		1
63	Notice of Removal: Nonlinear MPC-based energy management strategy for HEVs with consideration of vehicle parameter variation <b>2015</b> ,		1
62	Nonlinear MPC-based power-assist scheme of internal combustion engines in plug-in hybrid electric vehicles <b>2014</b> ,		1
61	Unknown offset free MPC for Air-Fuel Ratio balancing control in multi-cylinder SI engines <b>2010</b> ,		1
60	SICE benchmark problem of engine control and a challenging result <b>2012</b> ,		1
59	Load torque analysis based on the integrated model of HPAS systems <b>2008</b> ,		1
58	Modeling and Control of Individual Cylinder Air-Fuel Ratio in Multi-Cylinder Engine with Single Sensor. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , <b>2008</b> , 74, 324-331		1
57	Domination Design of Robust Adaptive Controller of Nonlinear Time-Delay Systems based on Lyapunov-Razumikhin Function <b>2006</b> ,		1
56	Individual A/F Estimation and Control for Multi-cylinder IC Engines <b>2006</b> ,		1
55	A Design Approach for Observer-based Robust Traction Control with PMSM <b>2006</b> ,		1
54	Improvement of printing accuracy via web handling control in multi-colors printing machines <b>2007</b> ,		1
53	Nonlinear Robust Link Space Control for an Electrical Stewart Platform <b>2006</b> ,		1

52	Look-ahead Horizon based Energy Optimization for Connected Hybrid Electric Vehicles <b>2020</b> ,		1
51	Decentralized controller design for multimachine power systems based on the Hamiltonian structure		1
50	Constructive Design Approach to Robust $H^\infty$ Control of Nonlinear Systems with Gain Bounded Uncertainty. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>2000</b> , 36, 242-247	0.1	1
49	Stabilizing Control Design for a Class of Discontinuous Systems. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>2005</b> , 41, 564-571	0.1	1
48	Adaptive Robust Stabilization of Cascaded Nonlinear Systems with Uncertain Time-Delay. <i>IEEJ Transactions on Electronics, Information and Systems</i> , <b>2005</b> , 125, 337-343	0.1	1
47	On the Necessity of Robust $H^\infty$ Performance Condition of Nonlinear Systems. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>1997</b> , 33, 1105-1107	0.1	1
46	Stochastic approximation for combustion phase optimization of SI gasoline engines <b>2016</b> ,		1
45	A Disturbance Rejection-based Control Framework for SI-CAI Hybrid Combustion in Gasoline Engines. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 665-672	0.7	1
44	Lyapunov Function based Nonlinear Control of EGR-VVT Dual Loop in IC Engines <b>2019</b> ,		1
43	A Real-Time Energy Management Strategy for Parallel HEVs with MPC <b>2019</b> ,		1
42	Mutual information of cylinder pressure and combustion phase estimation in spark ignition engines. <i>Control Theory and Technology</i> , <b>2020</b> , 18, 34-42	1	1
41	Route-dependent optimal control of the after-treatment system of diesel engines. <i>International Journal of Engine Research</i> , <b>2021</b> , 22, 64-76	2.7	1
40	Neural Network-Based Model-Free Learning Approach for Approximate Optimal Control of Nonlinear Systems. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , <b>2021</b> , E104.A, 532-541	0.4	1
39	Cyclic RGF regulation using adaptive IMC approach and statistical feedback criterion. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 106-111	0.7	1
38	Combustion Control of Spark-Ignition Engines Based on Map-Learning <b>2018</b> ,		1
37	Real-time energy optimization of HEVs under-connected environment: a benchmark problem and receding horizon-based solution. <i>Control Theory and Technology</i> , 1	1	1
36	Adaptive Feedback Stabilization for a Class of Cascaded Nonlinear Systems with Discontinuous Connection. <i>SICE Journal of Control Measurement and System Integration</i> , <b>2010</b> , 3, 352-357	0.3	0
35	Optimal comfortability control of hybrid electric powertrains in acceleration mode. <i>Science China Information Sciences</i> , <b>2021</b> , 64, 1	3.4	0

34	Modeling of engine thermal dynamics and its application in energy management of HEVs considering engine warming-up. <i>International Journal of Engine Research</i> , 146808742110445	2.7	0
33	An optimization method of LNT aftertreatment system based on discrete approximation. <i>Transactions of the JSME (in Japanese)</i> , <b>2018</b> , 84, 17-00267-17-00267	0.2	
32	Gradient Estimation Based Multi-functional Optimization of Dynamical Systems. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 696-701	0.7	
31	Application of Disturbance Observer in Synchronization Control Problem. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , <b>2005</b> , 71, 3146-3151		
30	Robust Tracking Control for Robot Systems with Discontinuous Uncertainty&mdash;A Filippov's Framework Approach&mdash;. <i>IEEJ Transactions on Electronics, Information and Systems</i> , <b>2005</b> , 125, 463-470	0.1	
29	Robust feedback design of a class of nonlinear cascaded systems with structural uncertainty. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>1999</b> , 32, 3108-3113		
28	Acceleration Control Design of HEVs with Comfortability Evaluation based on IRL. <i>IFAC-PapersOnLine</i> , <b>2021</b> , 54, 144-149	0.7	
27	Robust Feedback Design of Cascaded Nonlinear Systems with Structural Uncertainty. <i>IEEJ Transactions on Electronics, Information and Systems</i> , <b>2000</b> , 120, 692-698	0.1	
26	Robust Exponentially Passivation of Nonlinear Systems via Output Feedback. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>2000</b> , 36, 119-121	0.1	
25	Robust L2 Disturbance Attenuation for Nonlinear Systems with Input Dynamical Uncertainty. <i>IEEJ Transactions on Electronics, Information and Systems</i> , <b>2002</b> , 122, 980-988	0.1	
24	Passivity and Adaptive Control of Nonlinear Systems. <i>IEEJ Transactions on Electronics, Information and Systems</i> , <b>2003</b> , 123, 1049-1052	0.1	
23	Domination Design Approach to Robust Stabilization of Nonlinear Systems with Time-Delay via Lyapunov-Razumikhin Function. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>2004</b> , 40, 890-897	0.1	
22	A Nonlinear Control Scheme for the Traction Problem in EVs with Unknown Parameters. <i>Journal of Asian Electric Vehicles</i> , <b>2006</b> , 4, 837-842	0.3	
21	Input Constrained Positioning Control for a Class of Euler-Lagrange Systems with Discontinuities. <i>IEEJ Transactions on Electronics, Information and Systems</i> , <b>2008</b> , 128, 493-498	0.1	
20	Air Path Dynamics Control and Efficiency Optimization with Scenario Approach for Gasoline Engines. <i>International Journal of Automotive Engineering</i> , <b>2019</b> , 10, 284-291	0.3	
19	Receding Horizon Optimal Control of Hybrid Electric Vehicles Using ELM-Based Driver Acceleration Rate Prediction. <i>Proceedings in Adaptation, Learning and Optimization</i> , <b>2020</b> , 216-225	0.2	
18	Combustion Variation Control of SI Engines via Hypothesis Testing and EGR Step Valve. <i>IFAC-PapersOnLine</i> , <b>2021</b> , 54, 96-101	0.7	
17	Design of Quadratically Stabilizing Controller for Plants with Structural and Unstructural Uncertainties. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>1993</b> , 29, 1171-1175	0.1	

- 16 Robust  $H^\infty$  Control of Nonlinear Systems with Uncertainty. *Transactions of the Society of Instrument and Control Engineers*, **1995**, 31, 408-410 0.1
- 15 Absolute Stabilization with Disturbance Attenuation of Multivariable Systems. *Transactions of the Society of Instrument and Control Engineers*, **1997**, 33, 51-53 0.1
- 14 Nonlinear Robust  $H^\infty$  Control-An Approach Based on Lyapunov Function-. *Transactions of the Society of Instrument and Control Engineers*, **1998**, 34, 1191-1197 0.1
- 13 A Design Method of Nonlinear Robust  $H^\infty$  Controller with Adaptive Mechanism **1998**, 1998, 223-228
- 12 Dynamic Programming Algorithm for Stochastic Logical Systems and Its Application to Residual Gas Fraction Control **2015**, 2015, 136-141
- 11 Bayesian Learning Based Optimization for Stochastic Logical System. *Transactions of the Society of Instrument and Control Engineers*, **2017**, 53, 539-546 0.1
- 10 Delay-Dependent Feedback Control of Printing Positioning in Multi-Color Printing Lines. *IEEJ Transactions on Electronics, Information and Systems*, **2009**, 129, 1682-1689 0.1
- 9 L2-gain Analysis and Feedback Design for a Class of Time-delay Systems with Discontinuity. *IEEJ Transactions on Electronics, Information and Systems*, **2010**, 130, 1960-1967 0.1
- 8 Periodic Time-Varying Model-Based Predictive Control of Air-Fuel Ratio in Gasoline Engines under Individual Fuel Injection. *SICE Journal of Control Measurement and System Integration*, **2013**, 6, 309-315 0.3
- 7 Extremum seeking-based optimal EGR set-point design for combustion engines in lean-burn mode. *Control Theory and Technology*, **2021**, 19, 354-364 1
- 6 D-optimization based model calibration for air mass flow in engines. *Transactions of the JSME (in Japanese)*, **2016**, 82, 15-00688-15-00688 0.2
- 5 Longitudinal-vertical integrated sliding mode controller for distributed electric vehicles. *Science China Information Sciences*, **2020**, 63, 1 3.4
- 4 Design and experimental validation for nonlinear control of internal combustion engines with EGR and VVT. *SICE Journal of Control Measurement and System Integration*, **2021**, 14, 51-58 0.3
- 3 Lower Bound of Variance Minimization in Lean Combustion Control. *IFAC-PapersOnLine*, **2018**, 51, 303-307 0.7
- 2 Stochastic MPC of diesel engines using traffic information-based prediction of driver torque demand. *IFAC-PapersOnLine*, **2018**, 51, 626-631 0.7
- 1 Adaptive Regulation of Block-Oriented Nonlinear Systems Using Binary Sensors with Applications to Automotive Engine Control. *IEEE Transactions on Automatic Control*, **2022**, 1-1 5.9