Tielong Shen

List of Publications by Year in Descending Order

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 design for comfortable-driving of hybrid electric vehicles in acceleration mode. *Applied Energy*, **2022**, 305, 117885	10.7	4
194	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	
193	Acceleration Control Design of HEVs with Comfortability Evaluation based on IRL. *IFAC-PapersOnLine*, **2021**, 54, 144-149	0.7	
192	Combustion Variation Control of SI Engines via Hypothesis Testing and EGR Step Valve. *IFAC-PapersOnLine*, **2021**, 54, 96-101	0.7	
191	Bearing-Based Adaptive Neural Formation Scaling Control for Autonomous Surface Vehicles With Uncertainties and Input Saturation. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, 32, 4653-4664	10.3	4
190	Optimal comfortability control of hybrid electric powertrains in acceleration mode. *Science China Information Sciences*, **2021**, 64, 1	3.4	0
189	Extremum seeking-based optimal EGR set-point design for combustion engines in lean-burn mode. *Control Theory and Technology*, **2021**, 19, 354-364	1	
188	Model-free reinforcement learning approach to optimal speed control of combustion engines in start-up mode. *Control Engineering Practice*, **2021**, 111, 104791	3.9	4
187	Beta-Distribution-Based Knock Probability Estimation, Control Scheme, and Experimental Validation for SI Engines. *IEEE Transactions on Control Systems Technology*, **2021**, 29, 918-925	4.8	2
186	Route-dependent optimal control of the after-treatment system of diesel engines. *International Journal of Engine Research*, **2021**, 22, 64-76	2.7	1
185	Nonlinear observer-based exhaust manifold pressure estimation and fault detection for gasoline engines with exhaust gas recirculation. *International Journal of Engine Research*, **2021**, 22, 1377-1392	2.7	5
184	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	
183	Decentralized Optimal Merging Control With Optimization of Energy Consumption for Connected Hybrid Electric Vehicles. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 1-13	6.1	3
182	Neural Network-Based Model-Free Learning Approach for Approximate Optimal Control of Nonlinear Systems. *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences*, **2021**, E104.A, 532-541	0.4	1
181	Real-Time HEV Energy Management Strategy considering Road Congestion Based on Deep Reinforcement Learning. *Energies*, **2021**, 14, 5270	3.1	3
180	Distributed optimal energy consumption control of HEVs under MFG-based speed consensus. *Control Theory and Technology*, **2020**, 18, 193-203	1	1
179	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

178	Gaussian Mixture Model Clustering-Based Knock Threshold Learning in Automotive Engines. *IEEE/ASME Transactions on Mechatronics*, **2020**, 25, 2981-2991	5.5	9
177	Equivalence-Based Model of Dimension-Varying Linear Systems. *IEEE Transactions on Automatic Control*, **2020**, 65, 5444-5449	5.9	5
176	Look-Ahead Prediction-Based Real-Time Optimal Energy Management for Connected HEVs. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 2537-2551	6.8	29
175	Look-ahead Horizon based Energy Optimization for Connected Hybrid Electric Vehicles **2020**,		1
174	Model-Free Reinforcement Learning by Embedding an Auxiliary System for Optimal Control of Nonlinear Systems. *IEEE Transactions on Neural Networks and Learning Systems*, **2020**, PP,	10.3	3
173	Receding horizon optimal control of HEVs with on-board prediction of driver's power demand. *IET Intelligent Transport Systems*, **2020**, 14, 1534-1545	2.4	2
172	Receding Horizon Optimal Control of Hybrid Electric Vehicles Using ELM-Based Driver Acceleration Rate Prediction. *Proceedings in Adaptation, Learning and Optimization*, **2020**, 216-225	0.2	
171	Real-time control algorithm for minimising energy consumption in parallel hybrid electric vehicles. *IET Electrical Systems in Transportation*, **2020**, 10, 331-340	2.1	2
170	Symbol-sequence statistics-based cylinder-to-cylinder variation control in spark-ignition engines. *Applied Energy*, **2020**, 261, 114406	10.7	3
169	Short-Term Optimal Energy Management of Power-Split Hybrid Electric Vehicles Under Velocity Tracking Control. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 182-193	6.8	9
168	A fuzzy logic map-based knock control for spark ignition engines. *Applied Energy*, **2020**, 280, 116036	10.7	8
167	Normal-gamma distribution-based stochastic knock probability control scheme for spark-ignition engines. *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering*, **2020**, 234, 1986-2000	1.4	5
166	Mutual information of cylinder pressure and combustion phase estimation in spark ignition engines. *Control Theory and Technology*, **2020**, 18, 34-42	1	1
165	Longitudinal-vertical integrated sliding mode controller for distributed electric vehicles. *Science China Information Sciences*, **2020**, 63, 1	3.4	
164	Optimal control of power-split hybrid electric powertrains with minimization of energy consumption. *Applied Energy*, **2020**, 266, 114873	10.7	25
163	On-board knock probability map learning-based spark advance control for combustion engines. *International Journal of Engine Research*, **2019**, 20, 1073-1088	2.7	14
162	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
161	Combustion variation control strategy with thermal efficiency optimization for lean combustion in spark-ignition engines. *Applied Energy*, **2019**, 251, 113329	10.7	18

160	Cylinder pressure resonant frequency cyclic estimation-based knock intensity metric in combustion engines. *Applied Thermal Engineering*, **2019**, 158, 113756	5.8	13
159	Nonlinear observer-based control design and experimental validation for gasoline engines with EGR. *Control Theory and Technology*, **2019**, 17, 216-227	1	1
158	Look-Ahead Traffic-Based Optimal Velocity Planning for Parallel HEVs. *IFAC-PapersOnLine*, **2019**, 52, 580-585	0.7	2
157	Combustion Variation Control Strategy with Thermal Efficiency Optimization Consideration in Lean Condition. *IFAC-PapersOnLine*, **2019**, 52, 618-623	0.7	1
156	MPC-Based Optimal Control for Diesel Engine Coupled with Lean NOx Trap System. *SICE Journal of Control Measurement and System Integration*, **2019**, 12, 94-101	0.3	3
155	Air Path Dynamics Control and Efficiency Optimization with Scenario Approach for Gasoline Engines. *International Journal of Automotive Engineering*, **2019**, 10, 284-291	0.3	
154	Lyapunov Function based Nonlinear Control of EGR-VVT Dual Loop in IC Engines **2019**,		1
153	A Real-Time Energy Management Strategy for Parallel HEVs with MPC **2019**,		1
152	Recent advances in optimization and game theoretic control for networked systems. *Asian Journal of Control*, **2019**, 21, 2493-2512	1.7	7
151	Two-stage on-board optimization of merging velocity planning with energy management for HEVs. *Control Theory and Technology*, **2019**, 17, 335-345	1	5
150	Dynamical model of HEV with two planetary gear units and its application to optimization of energy consumption. *Science China Information Sciences*, **2019**, 62, 1	3.4	5
149	Optimal control of Boolean control networks with average cost: A policy iteration approach. *Automatica*, **2019**, 100, 378-387	5.7	89
148	Logical control scheme with real-time statistical learning for residual gas fraction in IC engines. *Science China Information Sciences*, **2018**, 61, 1	3.4	11
147	An optimization method of LNT aftertreatment system based on discrete approximation. *Transactions of the JSME (in Japanese)*, **2018**, 84, 17-00267-17-00267	0.2	
146	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
145	Policy Iteration Algorithm for Optimal Control of Stochastic Logical Dynamical Systems. *IEEE Transactions on Neural Networks and Learning Systems*, **2018**, 29, 2031-2036	10.3	31
144	A Finite Convergence Criterion for the Discounted Optimal Control of Stochastic Logical Networks. *IEEE Transactions on Automatic Control*, **2018**, 63, 262-268	5.9	57
143	A survey on online learning and optimization for spark advance control of SI engines. *Science China Information Sciences*, **2018**, 61, 1	3.4	18

142	Simulation of knock probability in an internal combustion engine. *Physical Review E*, **2018**, 98, 012102	2.4	2
141	Challenges and solutions in automotive powertrain systems. *Journal of Control and Decision*, **2018**, 5, 61-93	0.9	11
140	Symbolic Statistical Analysis of Cylinder-to-cylinder Imbalance in Gasoline Engine. *IFAC-PapersOnLine*, **2018**, 51, 63-67	0.7	2
139	Stochastic Knock Control with Beta Distribution Learning for Gasoline Engines. *IFAC-PapersOnLine*, **2018**, 51, 125-130	0.7	6
138	Lower Bound of Variance Minimization in Lean Combustion Control. *IFAC-PapersOnLine*, **2018**, 51, 303-307	0.7	
137	Adaptive Lean Air-Fuel Ratio Control and Analysis of Commercial Gasoline Engines. *IFAC-PapersOnLine*, **2018**, 51, 423-428	0.7	5
136	Cyclic RGF regulation using adaptive IMC approach and statistical feedback criterion. *IFAC-PapersOnLine*, **2018**, 51, 106-111	0.7	1
135	Stochastic MPC of diesel engines using traffic information-based prediction of driver torque demand. *IFAC-PapersOnLine*, **2018**, 51, 626-631	0.7	
134	Combustion Variation Feedback Control Approach for Multi-cylinder Spark Ignition Engines. *IFAC-PapersOnLine*, **2018**, 51, 105-110	0.7	3
133	Combustion Control of Spark-Ignition Engines Based on Map-Learning **2018**,		1
132	Chance-Constrained Optimization for Torque Tracking Control with Improving Fuel Economy in Spark-Ignition Engines. *SICE Journal of Control Measurement and System Integration*, **2018**, 11, 365-371	0.3	3
131	In-cylinder pressure-based air-fuel ratio control for lean burn operation mode of SI engines. *Energy*, **2017**, 120, 106-116	7.9	20
130	Spark advance self-optimization with knock probability threshold for lean-burn operation mode of SI engine. *Energy*, **2017**, 122, 1-10	7.9	29
129	Adaptive idling control scheme and its experimental validation for gasoline engines. *Science China Information Sciences*, **2017**, 60, 1	3.4	8
128	Policy Iteration Approach to Control Residual Gas Fraction in IC Engines Under the Framework of Stochastic Logical Dynamics. *IEEE Transactions on Control Systems Technology*, **2017**, 25, 1100-1107	4.8	46
127	Cylinder pressure sensor-based real-time combustion phase control approach for SI engines. *IEEJ Transactions on Electrical and Electronic Engineering*, **2017**, 12, 244-250	1	4
126	Real-time statistical learning-based stochastic knock limit control for spark-ignition engines. *Applied Thermal Engineering*, **2017**, 127, 1518-1529	5.8	13
125	On-Board map learning-based combustion phase control in spark ignition engines **2017**,		2

124	Experimental comparisons between LQR and MPC for spark-ignition engine control problem **2017**,		2
123	Combustion phase and RGF control based on multivariate statistical criterion **2017**,		1
122	Cylinder pressure based combustion phase optimization and control in spark-ignited engines. *Control Theory and Technology*, **2017**, 15, 83-91	1	16
121	Logical control approach to fuel efficiency optimization for commuting vehicles. *International Journal of Automotive Technology*, **2017**, 18, 535-546	1.6	8
120	On-line statistical combustion phase optimization and control of SI gasoline engines. *Applied Thermal Engineering*, **2017**, 112, 1396-1407	5.8	21
119	A statistical combustion phase control approach of SI engines. *Mechanical Systems and Signal Processing*, **2017**, 85, 218-235	7.8	27
118	An On-Board Calibration Scheme for Map-Based Combustion Phase Control of Spark-Ignition Engines. *IEEE/ASME Transactions on Mechatronics*, **2017**, 22, 1485-1496	5.5	22
117	Optimal control design for lean NOx trap regeneration in diesel engines **2017**,		1
116	Linear dynamic games with polytope strategy sets. *IET Control Theory and Applications*, **2017**, 11, 2146-2151	1.5	14
115	Bayesian Learning Based Optimization for Stochastic Logical System. *Transactions of the Society of Instrument and Control Engineers*, **2017**, 53, 539-546	0.1	
114	Receding horizon online optimization for torque control of gasoline engines. *ISA Transactions*, **2016** , 65, 371-383	5.5	7
113	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
112	Gradient Estimation Based Multi-functional Optimization of Dynamical Systems. *IFAC-PapersOnLine*, **2016**, 49, 696-701	0.7	
111	Reach Control Problem for Linear Differential Inclusion Systems on Simplices. *IEEE Transactions on Automatic Control*, **2016**, 61, 1403-1408	5.9	9
110	Real-Time Fuel Economy Optimization With Nonlinear MPC for PHEVs. *IEEE Transactions on Control Systems Technology*, **2016**, 24, 2167-2175	4.8	64
109	Experimental Validation of a Likelihood-Based Stochastic Knock Controller. *IEEE Transactions on Control Systems Technology*, **2016**, 24, 1407-1418	4.8	19
108	A stochastic logical system approach to model and optimal control of cyclic variation of residual gas fraction in combustion engines. *Applied Thermal Engineering*, **2016**, 93, 251-259	5.8	49
107	D-optimization based mapping calibration of air mass flow in combustion engines **2016**,		2

106	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	
105	Stochastic approximation for combustion phase optimization of SI gasoline engines **2016**,		1
104	Real-time scenario-based stochastic optimal energy management strategy for HEVs **2016**,		5
103	Conservation law-based air mass flow calculation in engine intake systems. *Science China Information Sciences*, **2016**, 59, 1	3.4	4
102	Nonlinear Constrained Torque Control For Gasoline Engines. *IFAC-PapersOnLine*, **2016**, 49, 784-789	0.7	3
101	A Disturbance Rejection-based Control Framework for SI-CAI Hybrid Combustion in Gasoline Engines. *IFAC-PapersOnLine*, **2016**, 49, 665-672	0.7	1
100	Experimental comparisons of hypothesis test and moving average based combustion phase controllers. *ISA Transactions*, **2016**, 65, 504-515	5.5	14
99	An algebraic expression of finite horizon optimal control algorithm for stochastic logical dynamical systems. *Systems and Control Letters*, **2015**, 82, 108-114	2.4	76
98	Absolute stability of the axially moving Kirchhoff string with a sector boundary feedback control. *Nonlinear Dynamics*, **2015**, 80, 9-22	5	10
97	Estimation and feedback control of air-fuel ratio for gasoline engines. *Control Theory and Technology*, **2015**, 13, 151-159	1	13
96	Combustion Phase Control of SI Gasoline Engines Using Hypothesis Test. *IFAC-PapersOnLine*, **2015**, 48, 153-158	0.7	5
95	Notice of Removal: Optimal calibration of VVT by extremal seeking in combustion engines **2015**,		1
94	MPC-Based Speed Tracking Control Design for Spark-Ignition Engines. *SICE Journal of Control Measurement and System Integration*, **2015**, 8, 201-208	0.3	3
93	Design and Validation of a Model-Based Starting Speed Control Scheme for Spark Ignition Engines. *Asian Journal of Control*, **2015**, 17, 1255-1266	1.7	5
92	Notice of Removal: Nonlinear MPC-based energy management strategy for HEVs with consideration of vehicle parameter variation **2015**,		1
91	Energy management strategy design for plug-in hybrid electric vehicles with continuation/GMRES algorithm **2015**,		2
90	Adaptive time delay compensation for air-fuel ratio control of a port injection SI engine **2015**,		2
89	Adaptive air-fuel ratio control scheme and its experimental validations for port-injected spark ignition engines. *International Journal of Adaptive Control and Signal Processing*, **2015**, 29, 41-63	2.8	12

88	Dynamic Programming Algorithm for Stochastic Logical Systems and Its Application to Residual Gas Fraction Control **2015**, 2015, 136-141		
87	Model-Based Stochastic Optimal Air-Fuel Ratio Control With Residual Gas Fraction of Spark Ignition Engines. *IEEE Transactions on Control Systems Technology*, **2014**, 22, 896-910	4.8	16
86	Stochastic adaptive air-fuel ratio control of spark ignition engines. *IEEJ Transactions on Electrical and Electronic Engineering*, **2014**, 9, 442-447	1	2
85	Cooperative shift estimation of target trajectory using clustered sensors. *Journal of Systems Science and Complexity*, **2014**, 27, 413-429	1	9
84	An Adaptive Servo Control Strategy for Automotive Electronic Throttle and Experimental Validation. *IEEE Transactions on Industrial Electronics*, **2014**, 61, 6275-6284	8.9	59
83	Absolute stability of the Kirchhoff string with sector boundary control. *Automatica*, **2014**, 50, 1915-1921	5.7	14
82	Common Quadratic Lyapunov Function for Two Classes of Special Switched Linear Systems. *IEICE Transactions on Information and Systems*, **2014**, E97.D, 175-183	0.6	2
81	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
80	SDP Policy Iteration-Based Energy Management Strategy Using Traffic Information for Commuter Hybrid Electric Vehicles. *Energies*, **2014**, 7, 4648-4675	3.1	24
79	Nonlinear model predictive torque control for IC engines **2014**,		5
78	Model predictive control of gasoline engines with nonlinear feedback linearized model **2014**,		5
77	Nonlinear MPC-based power-assist scheme of internal combustion engines in plug-in hybrid electric vehicles **2014**,		1
76	Air-fuel ratio control with stochastic L 2 disturbance attenuation in gasoline engines. *Journal of Control Theory and Applications*, **2013**, 11, 586-591		3
75	Feedback stabilization for a class of discontinuous systems driven by integrator. *Journal of Control Theory and Applications*, **2013**, 11, 268-274		2
74	A Model-Predictive-Control-Based Torque Demand Control Approach for Parallel Hybrid Powertrains. *IEEE Transactions on Vehicular Technology*, **2013**, 62, 1041-1052	6.8	20
73	Tuning of nonlinear model predictive controller for the speed control of spark ignition engines **2013**,		3
72	A Torque Demand Strategy of IC Engines for Fuel Consumption Improvement using Traffic Information. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2013**, 46, 700-705		2
71	Modeling and Control for Engine-in-the-Loop Simulation System. *Journal of System Design and Dynamics*, **2013**, 7, 428-440		2

70	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	
69	EV bus system control strategy design with consideration of battery lifetime model **2012**,		3
68	Modeling and Experimental Validation of Air-Fuel Ratio under Individual Cylinder Fuel Injection in Gasoline Engines. *IEEJ Journal of Industry Applications*, **2012**, 1, 155-163	0.7	2
67	SICE benchmark problem of engine control and a challenging result **2012**,		1
66	Stationary Set Analysis for PD Controlled Mechanical Systems. *IEEE Transactions on Control Systems Technology*, **2011**, 19, 1236-1244	4.8	7
65	Torque Observers Design for Spark Ignition Engines With Different Intake Air Measurement Sensors. *IEEE Transactions on Control Systems Technology*, **2011**, 19, 229-237	4.8	21
64	Nonlinear Speed Control Scheme and Its Stability Analysis for SI Engines. *SICE Journal of Control Measurement and System Integration*, **2010**, 3, 43-49	0.3	2
63	Control of hydraulic turbine generators using exact feedback linearization **2010**,		6
62	Unknown offset free MPC for Air-Fuel Ratio balancing control in multi-cylinder SI engines **2010**,		1
61	Regenerative braking torque estimation and control approaches for a hybrid electric truck **2010**,		4
60	Model-based cold-start speed control scheme for spark ignition engines. *Control Engineering Practice*, **2010**, 18, 1285-1294	3.9	31
59	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	
58	Adaptive Feedback Stabilization for a Class of Cascaded Nonlinear Systems with Discontinuous Connection. *SICE Journal of Control Measurement and System Integration*, **2010**, 3, 352-357	0.3	0
57	L2-gain analysis and feedback design for discontinuous time-delay systems based on functional differential inclusion **2009**,		3
56	Individual A/F Estimation and Control With the Fuel Gas Ratio for Multicylinder IC Engines. *IEEE Transactions on Vehicular Technology*, **2009**, 58, 4757-4768	6.8	14
55	Cyclic moving average control approach to cylinder pressure and its experimental validation. *Journal of Control Theory and Applications*, **2009**, 7, 345-351		6
54	New approaching condition for sliding mode control design with Lipschitz switching surface. *Science in China Series F: Information Sciences*, **2009**, 52, 2032-2044		6
53	Lyapunov-based feedback design and experimental verification of IC engine speed control. *International Journal of Control, Automation and Systems*, **2009**, 7, 659-667	2.9	3

52	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
51	Stability and Feedback Design of a Class of Time-Delay Systems with Discontinuity: Functional Differential Inclusion-Based Approach. *IEEJ Transactions on Electronics, Information and Systems*, **2009**, 129, 1108-1114	0.1	3
50	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	
49	Adaptive L2 Disturbance Attenuation Of Hamiltonian Systems With Parametric Perturbation And Application To Power Systems. *Asian Journal of Control*, **2008**, 5, 143-152	1.7	40
48	Input Observer-Based Individual Cylinder Air-Fuel Ratio Control: Modelling, Design and Validation. *IEEE Transactions on Control Systems Technology*, **2008**, 16, 1057-1065	4.8	26
47	Load torque analysis based on the integrated model of HPAS systems **2008**,		1
46	Modeling and Control of Individual Cylinder Air-Fuel Ratio in Multi-Cylinder Engine with Single Sensor. *Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C*, **2008**, 74, 324-331		1
45	State feedback stabilization of cascaded nonlinear systems with discontinuous connection. *Journal of Control Theory and Applications*, **2008**, 6, 45-52		3
44	Adaptive control approach to uncertain longitudinal tire slip in traction control of vehicles. *Asian Journal of Control*, **2008**, 10, 67-73	1.7	20
43	Input Constrained Positioning Control for a Class of Euler-Lagrange Systems with Discontinuities. *IEEJ Transactions on Electronics, Information and Systems*, **2008**, 128, 493-498	0.1	
42	Individual A/F Control with Fuel-Gas Ratio Estimation for Multi-cylinder IC Engines. *Proceedings of the American Control Conference*, **2007**,	1.2	3
41	Benchmark problem for automotive engine control **2007**,		5
40	Improvement of printing accuracy via web handling control in multi-colors printing machines **2007**,		1
39	Coordinated Nonlinear Speed Control Approach for SI Engine With Alternator. *Proceedings of the IEEE*, **2007**, 95, 796-805	14.3	6
38	Domination Design of Robust Adaptive Controller of Nonlinear Time-Delay Systems based on Lyapunov-Razumikhin Function **2006**,		1
37	Individual A/F Estimation and Control for Multi-cylinder IC Engines **2006**,		1
36	A Design Approach for Observer-based Robust Traction Control with PMSM **2006**,		1
35	Nonlinear Robust Link Space Control for an Electrical Stewart Platform **2006**,		1

34	A Nonlinear Control Scheme for the Traction Problem in EVs with Unknown Parameters. *Journal of Asian Electric Vehicles*, **2006**, 4, 837-842	0.3	
33	Application of Disturbance Observer in Synchronization Control Problem. *Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C*, **2005**, 71, 3146-3151		
32	Robust Tracking Control for Robot Systems with Discontinuous Uncertainty—A Filippov's Framework Approach—. *IEEJ Transactions on Electronics, Information and Systems*, **2005**, 125, 463-470	0.1	
31	Nonlinear and Adaptive Nonlinear Controllers for Attitude Stabilization and Tracking of a Spacecraft. *Transactions of the Japan Society for Aeronautical and Space Sciences*, **2005**, 48, 7-12	0.8	8
30	Stabilizing Control Design for a Class of Discontinuous Systems. *Transactions of the Society of Instrument and Control Engineers*, **2005**, 41, 564-571	0.1	1
29	Adaptive Robust Stabilization of Cascaded Nonlinear Systems with Uncertain Time-Delay. *IEEJ Transactions on Electronics, Information and Systems*, **2005**, 125, 337-343	0.1	1
28	Passivity-based robust feedback control for non-linear systems with input dynamical uncertainty. *International Journal of Control*, **2004**, 77, 517-526	1.5	5
27	Domination Design Approach to Robust Stabilization of Nonlinear Systems with Time-Delay via Lyapunov-Razumikhin Function. *Transactions of the Society of Instrument and Control Engineers*, **2004**, 40, 890-897	0.1	
26	Adaptive nonlinear excitation control with L2 disturbance attenuation for power systems. *Automatica*, **2003**, 39, 81-89	5.7	65
25	Passivity and Adaptive Control of Nonlinear Systems. *IEEJ Transactions on Electronics, Information and Systems*, **2003**, 123, 1049-1052	0.1	
24	Pseudo-Hamiltonian realization and its application. *Communications in Information and Systems*, **2002**, 2, 91-120	0.8	10
23	Robust L2 Disturbance Attenuation for Nonlinear Systems with Input Dynamical Uncertainty. *IEEJ Transactions on Electronics, Information and Systems*, **2002**, 122, 980-988	0.1	
22	Lyapunov recursive design of robust adaptive tracking control with L 2-gain performance for electrically-driven robot manipulators. *International Journal of Control*, **2001**, 74, 811-828	1.5	21
21	Nonlinear decentralized disturbance attenuation excitation control via new recursive design for multi-machine power systems. *IEEE Transactions on Power Systems*, **2001**, 16, 729-736	7	64
20	Recursive design of nonlinearH □excitation controller. *Science in China Series D: Earth Sciences*, **2000**, 43, 23-31		7
19	Robust Nonlinear Control of Parametric Uncertain Systems With Unknown Friction and Its Application to a Pneumatic Control Valve. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2000**, 122, 257-262	1.6	8
18	Constructive Design Approach to Robust H^|^infin; Control of Nonlinear Systems with Gain Bounded Uncertainty. *Transactions of the Society of Instrument and Control Engineers*, **2000**, 36, 242-247	0.1	1
17	Robust Feedback Design of Cascaded Nonlinear Systems with Structural Uncertainty. *IEEJ Transactions on Electronics, Information and Systems*, **2000**, 120, 692-698	0.1	

16	Robust Exponentially Passivation of Nonlinear Systems via Output Feedback. *Transactions of the Society of Instrument and Control Engineers*, **2000**, 36, 119-121	0.1	
15	Robust feedback design of a class of nonlinear cascaded systems with structural uncertainty. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **1999**, 32, 3108-3113		
14	A Design Method of Adaptive Robust Controller for Nonlinear Systems with Modelling Errors. *Transactions of the Society of Instrument and Control Engineers*, **1998**, 34, 1388-1394	0.1	3
13	Globally Robust Stabilization of Nonlinear Systems Having Relative Degree One via Passivity Theory. *Transactions of the Society of Instrument and Control Engineers*, **1998**, 34, 577-583	0.1	2
12	Nonlinear Robust H^|^infin; Control-An Approach Based on Lyapunov Function-. *Transactions of the Society of Instrument and Control Engineers*, **1998**, 34, 1191-1197	0.1	
11	A Design Method of Nonlinear Robust H□Controller with Adaptive Mechanism **1998**, 1998, 223-228		
10	Absolute Stabilization with Disturbance Attenuation of Multivariable Systems. *Transactions of the Society of Instrument and Control Engineers*, **1997**, 33, 51-53	0.1	
9	On the Necessity of Robust H^|^infin; Performance Condition of Nonlinear Systems. *Transactions of the Society of Instrument and Control Engineers*, **1997**, 33, 1105-1107	0.1	1
8	Riccati equation approach to robust L 2-gain synthesis for a class of uncertain nonlinear systems. *International Journal of Control*, **1996**, 64, 1177-1188	1.5	11
7	Robust H^|^infin; Control of Nonlinear Systems with Uncertainty. *Transactions of the Society of Instrument and Control Engineers*, **1995**, 31, 408-410	0.1	
6	Design of Quadratically Stabilizing Controller for Plants with Structural and Unstructural Uncertainties. *Transactions of the Society of Instrument and Control Engineers*, **1993**, 29, 1171-1175	0.1	
5	High precision feedback control design for dual-actuator systems		6
4	Decentralized controller design for multimachine power systems based on the Hamiltonian structure		1
3	Transient Control of Gasoline Engines		8
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