Yong-Duan Song

List of Publications by Citations

249 papers	7,998 citations	48 h-index	81 g-index
288 ext. papers	10,326 ext. citations	5.3 avg, IF	7.13 L-index

#	Paper	IF	Citations
249	Distributed Secondary Voltage and Frequency Restoration Control of Droop-Controlled Inverter-Based Microgrids. *IEEE Transactions on Industrial Electronics*, **2015**, 62, 4355-4364	8.9	379
248	Fault Detection Filtering for Nonlinear Switched Stochastic Systems. *IEEE Transactions on Automatic Control*, **2016**, 61, 1310-1315	5.9	369
247	A Novel Approach to Filter Design for TS Fuzzy Discrete-Time Systems With Time-Varying Delay. *IEEE Transactions on Fuzzy Systems*, **2012**, 20, 1114-1129	8.3	341
246	A Novel Control Design on Discrete-Time Takagi Sugeno Fuzzy Systems With Time-Varying Delays. *IEEE Transactions on Fuzzy Systems*, **2013**, 21, 655-671	8.3	270
245	A novel approach to output feedback control of fuzzy stochastic systems. *Automatica*, **2014**, 50, 3268-3275	7.5	217
244	Time-varying feedback for regulation of normal-form nonlinear systems in prescribed finite time. *Automatica*, **2017**, 83, 243-251	5.7	194
243	Adaptive finite-time consensus control of a group of uncertain nonlinear mechanical systems. *Automatica*, **2015**, 51, 292-301	5.7	176
242	Distributed Economic Dispatch for Smart Grids With Random Wind Power. *IEEE Transactions on Smart Grid*, **2016**, 7, 1572-1583	10.7	168
241	Sliding mode control of hybrid switched systems via an event-triggered mechanism. *Automatica*, **2018**, 90, 294-303	5.7	157
240	Distributed multi-agent optimization subject to nonidentical constraints and communication delays. *Automatica*, **2016**, 65, 120-131	5.7	130
239	Fault-tolerant finite time consensus for multiple uncertain nonlinear mechanical systems under single-way directed communication interactions and actuation failures. *Automatica*, **2016**, 63, 374-383	5.7	128
238	H model reduction of Takagi-Sugeno fuzzy stochastic systems. *IEEE Transactions on Systems, Man, and Cybernetics*, **2012**, 42, 1574-85		122
237	. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 5988-5997	8.9	120
236	. *IEEE Transactions on Automatic Control*, **2019**, 64, 1265-1272	5.9	117
235	Prescribed Performance Control of Uncertain Euler-Lagrange Systems Subject to Full-State Constraints. *IEEE Transactions on Neural Networks and Learning Systems*, **2018**, 29, 3478-3489	10.3	113
234	Distributed Optimal Active Power Control of Multiple Generation Systems. *IEEE Transactions on Industrial Electronics*, **2015**, 62, 7079-7090	8.9	108
233	Design of adaptive finite-time controllers for nonlinear uncertain systems based on given transient specifications. *Automatica*, **2016**, 69, 395-404	5.7	105

232	Prescribed-Time Consensus and Containment Control of Networked Multiagent Systems. *IEEE Transactions on Cybernetics*, **2019**, 49, 1138-1147	10.2	103
231	. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 4899-4908	8.9	101
230	Fully distributed flocking with a moving leader for Lagrange networks with parametric uncertainties. *Automatica*, **2016**, 67, 67-76	5.7	98
229	Event-Triggered Sliding-Mode Control for Multi-Area Power Systems. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 6732-6741	8.9	94
228	Nonfragile Dissipative Synchronization for Markovian Memristive Neural Networks: A Gain-Scheduled Control Scheme. *IEEE Transactions on Neural Networks and Learning Systems*, **2019**, 30, 1841-1853	10.3	90
227	Fraction Dynamic-Surface-Based Neuroadaptive Finite-Time Containment Control of Multiagent Systems in Nonaffine Pure-Feedback Form. *IEEE Transactions on Neural Networks and Learning Systems*, **2017**, 28, 678-689	10.3	88
226	Leader-following control of high-order multi-agent systems under directed graphs: Pre-specified finite time approach. *Automatica*, **2018**, 87, 113-120	5.7	88
225	Computationally Inexpensive Tracking Control of High-Speed Trains With Traction/Braking Saturation. *IEEE Transactions on Intelligent Transportation Systems*, **2011**, 12, 1116-1125	6.1	88
224	Data-based fault-tolerant control of high-speed trains with traction/braking notch nonlinearities and actuator failures. *IEEE Transactions on Neural Networks*, **2011**, 22, 2250-61		86
223	. *IEEE Transactions on Automatic Control*, **2016**, 61, 3227-3233	5.9	84
222	Output Containment Control of Linear Heterogeneous Multi-Agent Systems Using Internal Model Principle. *IEEE Transactions on Cybernetics*, **2017**, 47, 2099-2109	10.2	79
221	Global stable tracking control of underactuated ships with input saturation. *Systems and Control Letters*, **2015**, 85, 1-7	2.4	78
220	. *IEEE Transactions on Automatic Control*, **2017**, 62, 481-487	5.9	75
219	Distributed Cooperative Secondary Control for Voltage Unbalance Compensation in an Islanded Microgrid. *IEEE Transactions on Industrial Informatics*, **2015**, 11, 1078-1088	11.9	75
218	Robust Adaptive Fault-Tolerant Control of Multiagent Systems With Uncertain Nonidentical Dynamics and Undetectable Actuation Failures. *IEEE Transactions on Industrial Electronics*, **2015**, 1-1	8.9	68
217	Robust Adaptive Fault-Tolerant PID Control of MIMO Nonlinear Systems With Unknown Control Direction. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 4876-4884	8.9	64
216	Neuroadaptive Fault-Tolerant Control of Nonlinear Systems Under Output Constraints and Actuation Faults. *IEEE Transactions on Neural Networks and Learning Systems*, **2018**, 29, 286-298	10.3	62
215	Memristor-Based Echo State Network With Online Least Mean Square. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2019**, 49, 1787-1796	7.3	60

214	Smooth control design for adaptive leader-following consensus control of a class of high-order nonlinear systems with time-varying reference. *Automatica*, **2017**, 83, 361-367	5.7	60
213	Energy-Efficient Train Operation in Urban Rail Transit Using Real-Time Traffic Information. *IEEE Transactions on Intelligent Transportation Systems*, **2014**, 15, 1216-1233	6.1	59
212	Fully Distributed Adaptive Consensus Control of a Class of High-Order Nonlinear Systems With a Directed Topology and Unknown Control Directions. *IEEE Transactions on Cybernetics*, **2018**, 48, 2349-2356	10.2	58
211	. *IEEE Transactions on Intelligent Transportation Systems*, **2014**, 15, 737-748	6.1	57
210	Robust finite-time H∞ control for uncertain discrete-time singular systems with Markovian jumps. *IET Control Theory and Applications*, **2014**, 8, 1105-1111	2.5	56
209	Cooperative tracking control of nonlinear multiagent systems using self-structuring neural networks. *IEEE Transactions on Neural Networks and Learning Systems*, **2014**, 25, 1496-507	10.3	55
208	Time-varying feedback for stabilization in prescribed finite time. *International Journal of Robust and Nonlinear Control*, **2019**, 29, 618-633	3.6	55
207	Distributed Fault-Tolerant Control of Networked Uncertain Euler-Lagrange Systems Under Actuator Faults. *IEEE Transactions on Cybernetics*, **2017**, 47, 1706-1718	10.2	52
206	Tracking control of MIMO nonlinear systems under full state constraints: A Single-parameter adaptation approach free from feasibility conditions. *Automatica*, **2019**, 107, 52-60	5.7	52
205	Neuroadaptive Fault-Tolerant Control of Quadrotor UAVs: A More Affordable Solution. *IEEE Transactions on Neural Networks and Learning Systems*, **2019**, 30, 1975-1983	10.3	52
204	Finite-time cooperative-tracking control for networked Euler–Lagrange systems. *IET Control Theory and Applications*, **2013**, 7, 1487-1497	2.5	50
203	Adaptive output containment control of heterogeneous multi-agent systems with unknown leaders. *Automatica*, **2018**, 92, 235-239	5.7	48
202	Model-Independent Adaptive Fault-Tolerant Output Tracking Control of 4WS4WD Road Vehicles. *IEEE Transactions on Intelligent Transportation Systems*, **2013**, 14, 169-179	6.1	48
201	Terminal Sliding Mode-Based Consensus Tracking Control for Networked Uncertain Mechanical Systems on Digraphs. *IEEE Transactions on Neural Networks and Learning Systems*, **2018**, 29, 749-756	10.3	46
200	. *IEEE Transactions on Intelligent Transportation Systems*, **2016**, 17, 535-545	6.1	46
199	Tracking control of uncertain nonlinear systems with deferred asymmetric time-varying full state constraints. *Automatica*, **2018**, 98, 314-322	5.7	46
198	A Novel Dual Speed-Curve Optimization Based Approach for Energy-Saving Operation of High-Speed Trains. *IEEE Transactions on Intelligent Transportation Systems*, **2016**, 17, 1564-1575	6.1	44
197	Backstepping Design of Adaptive Neural Fault-Tolerant Control for MIMO Nonlinear Systems. *IEEE Transactions on Neural Networks and Learning Systems*, **2017**, 28, 2605-2613	10.3	44

196	Adaptive Control With Exponential Regulation in the Absence of Persistent Excitation. *IEEE Transactions on Automatic Control*, **2017**, 62, 2589-2596	5.9	42
195	Fault-tolerant output synchronisation control of multi-vehicle systems. *IET Control Theory and Applications*, **2014**, 8, 574-584	2.5	42
194	An Optimal Divisioning Technique to Stabilization Synthesis of T-S Fuzzy Delayed Systems. *IEEE Transactions on Cybernetics*, **2017**, 47, 1147-1156	10.2	41
193	Hierarchical Decentralized Optimization Architecture for Economic Dispatch: A New Approach for Large-Scale Power System. *IEEE Transactions on Industrial Informatics*, **2018**, 14, 523-534	11.9	41
192	Neuroadaptive Robotic Control Under Time-Varying Asymmetric Motion Constraints: A Feasibility-Condition-Free Approach. *IEEE Transactions on Cybernetics*, **2020**, 50, 15-24	10.2	41
191	Robust fault-tolerant cooperative control of multi-agent systems: A constructive design method. *Journal of the Franklin Institute*, **2015**, 352, 4045-4066	4	39
190	Adaptive finite time coordinated consensus for high-order multi-agent systems: Adjustable fraction power feedback approach. *Information Sciences*, **2016**, 372, 392-406	7.7	39
189	Virtual-Point-Based Fault-Tolerant Lateral and Longitudinal Control of 4W-Steering Vehicles. *IEEE Transactions on Intelligent Transportation Systems*, **2011**, 12, 1343-1351	6.1	39
188	Chaos Analysis-Based Adaptive Backstepping Control of the Microelectromechanical Resonators With Constrained Output and Uncertain Time Delay. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 6217-6225	8.9	38
187	. *IEEE Transactions on Smart Grid*, **2016**, 7, 1259-1267	10.7	38
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182	Dissipativity-Based Fuzzy Control of Nonlinear Systems via an Event-Triggered Mechanism. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2019**, 49, 1208-1217	7.3	35
181	Localization and circumnavigation of multiple agents along an unknown target based on bearing-only measurement: A three dimensional solution. *Automatica*, **2018**, 94, 18-25	5.7	34
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179	Fault-Tolerant Control of Multiarea Power Systems via a Sliding-Mode Observer Technique. *IEEE/ASME Transactions on Mechatronics*, **2018**, 23, 38-47	5.5	32

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177	Neuro-Adaptive Fault-Tolerant Tracking Control of Lagrange Systems Pursuing Targets With Unknown Trajectory. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 3913-3920	8.9	31
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175	Distributed average tracking for double-integrator multi-agent systems with reduced requirement on velocity measurements. *Automatica*, **2017**, 81, 1-7	5.7	30
174	New results on stability analysis of delayed systems derived from extended wirtinger's integral inequality. *Neurocomputing*, **2018**, 283, 98-106	5.4	30
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171	Control and Monitoring for Grid-Friendly Wind Turbines: Research Overview and Suggested Approach. *IEEE Transactions on Power Electronics*, **2015**, 30, 1979-1986	7.2	29
170	Heterogeneous Multi-Agent Systems: Reduced-Order Synchronization and Geometry. *IEEE Transactions on Automatic Control*, **2016**, 61, 1391-1396	5.9	29
169	Finite-time H∞ Filtering for discrete-time Markovian jump systems. *Journal of the Franklin Institute*, **2013**, 350, 1579-1595	4	27
168	Dealing With the Issues Crucially Related to the Functionality and Reliability of NN-Associated Control for Nonlinear Uncertain Systems. *IEEE Transactions on Neural Networks and Learning Systems*, **2017**, 28, 2614-2625	10.3	27
167	A distributed hierarchical algorithm for multi-cluster constrained optimization. *Automatica*, **2017**, 77, 230-238	5.7	26
166	Immune network-based swarm intelligence and its application to unmanned aerial vehicle (UAV) swarm coordination. *Neurocomputing*, **2014**, 125, 134-141	5.4	26
165	. *IEEE Transactions on Energy Conversion*, **2016**, 31, 882-895	5.4	26
164	Indirect neuroadaptive control of unknown MIMO systems tracking uncertain target under sensor failures. *Automatica*, **2017**, 77, 103-111	5.7	25
163	Robust Adaptive Fault-Tolerant Control of Mobile Robots With Varying Center of Mass. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 2419-2428	8.9	25
162	Low-Cost Adaptive Fault-Tolerant Approach for Semiactive Suspension Control of High-Speed Trains. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 7084-7093	8.9	25
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160	Second-Order Sliding-Mode Controlled Three-Level Buck DC/DC Converters. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 898-906	8.9	24
159	Neuroadaptive Variable Speed Control of Wind Turbine With Wind Speed Estimation. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 7754-7764	8.9	24
158	Distributed Secure State Estimation and Control for CPSs Under Sensor Attacks. *IEEE Transactions on Cybernetics*, **2020**, 50, 259-269	10.2	24
157	Distributed adaptive consensus control of heterogeneous multi-agent chaotic systems with unknown time delays. *IET Control Theory and Applications*, **2015**, 9, 2414-2422	2.5	23
156	Adaptive Output Formation-Tracking of Heterogeneous Multi-Agent Systems Using Time-Varying $\mathcal{L}_{2}$ -Gain Design **2018**, 2, 236-241		23
155	Distributed Adaptive Finite-Time Approach for Formation-Containment Control of Networked Nonlinear Systems Under Directed Topology. *IEEE Transactions on Neural Networks and Learning Systems*, **2018**, 29, 3164-3175	10.3	23
154	Consensus stability of a class of second-order multi-agent systems with nonuniform time-delays. *Journal of the Franklin Institute*, **2014**, 351, 1571-1576	4	23
153	Neuro-Adaptive Control With Given Performance Specifications for Strict Feedback Systems Under Full-State Constraints. *IEEE Transactions on Neural Networks and Learning Systems*, **2019**, 30, 25-34	10.3	23
152	A Unified Event-Triggered Control Approach for Uncertain Pure-Feedback Systems With or Without State Constraints. *IEEE Transactions on Cybernetics*, **2021**, 51, 1262-1271	10.2	23
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143	Distributed Subgradient-Based Multiagent Optimization With More General Step Sizes. *IEEE Transactions on Automatic Control*, **2018**, 63, 2295-2302	5.9	20

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141	Dynamic Loads of Variable-Speed Wind Energy Conversion System. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 178-188	8.9	19
140	Adaptive backstepping optimal control of a fractional-order chaotic magnetic-field electromechanical transducer. *Nonlinear Dynamics*, **2020**, 100, 523-540	5	18
139	Computationally inexpensive fault tolerant control of uncertain non-linear systems with non-smooth asymmetric input saturation and undetectable actuation failures. *IET Control Theory and Applications*, **2016**, 10, 1866-1873	2.5	18
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136	Data-driven predictive control of Hammerstein‐Wiener systems based on subspace identification. *Information Sciences*, **2018**, 422, 447-461	7.7	16
135	$\mathcal{L}_{2}$‐$\mathcal{L}_{\infty}$ Output Feedback Controller Design for Fuzzy Systems Over Switching Parameters. *IEEE Transactions on Fuzzy Systems*, **2018**, 26, 3755-3769	8.3	16
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133	Adaptive PID-like fault-tolerant control for robot manipulators with given performance specifications. *International Journal of Control*, **2020**, 93, 377-386	1.5	16
132	Model-based verification method for solving the parameter uncertainty in the train control system. *Reliability Engineering and System Safety*, **2016**, 145, 169-182	6.3	15
131	Maximum power point tracking for wind power systems with an improved control and extremum seeking strategy. *International Transactions on Electrical Energy Systems*, **2014**, 24, 623-637	2.2	15
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127	Accelerated adaptive control of nonlinear uncertain systems **2017**,		14
126	On Fault-tolerant Control of Dynamic Systems with Actuator Failures and External Disturbances. *Zidonghua Xuebao/Acta Automatica Sinica*, **2010**, 36, 1620-1625		14
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123	Bipartite output synchronization of heterogeneous multiagent systems on signed digraphs. *International Journal of Robust and Nonlinear Control*, **2018**, 28, 4017-4031	3.6	13
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121	Accelerated Adaptive Fuzzy Optimal Control of Three Coupled Fractional-Order Chaotic Electromechanical Transducers. *IEEE Transactions on Fuzzy Systems*, **2020**, 1-1	8.3	12
120	Computational modeling of spiking neural network with learning rules from STDP and intrinsic plasticity. *Physica A: Statistical Mechanics and Its Applications*, **2018**, 491, 716-728	3.3	12
119	Monitoring of Wind Turbines: A Bio-Inspired Fault Tolerant Approach. *Measurement and Control*, **2011**, 44, 111-115	1.5	12
118	Prespecifiable fixed-time control for a class of uncertain nonlinear systems in strict-feedback form. *International Journal of Robust and Nonlinear Control*, **2020**, 30, 1203-1222	3.6	12
117	Regular error feedback based adaptive practical prescribed time tracking control of normal-form nonaffine systems. *Journal of the Franklin Institute*, **2019**, 356, 2759-2779	4	12
116	Performance Guaranteed Consensus Tracking Control of Nonlinear Multiagent Systems: A Finite-Time Function-Based Approach. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, 32, 1536-1546	10.3	12
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113	Robust adaptive variable speed control of wind power systems without wind speed measurement. *Journal of Renewable and Sustainable Energy*, **2013**, 5, 063115	2.5	11
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110	Intelligent Positioning Approach for High Speed Trains Based on Ant Colony Optimization and Machine Learning Algorithms. *IEEE Transactions on Intelligent Transportation Systems*, **2019**, 20, 3737-3746	6.1	11
109	Zero-Error Consensus Tracking With Preassignable Convergence for Nonaffine Multiagent Systems. *IEEE Transactions on Cybernetics*, **2021**, 51, 1300-1310	10.2	10
108	Adaptive Event-Triggered Control of Uncertain Nonlinear Systems Using Intermittent Output Only. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	10
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98	Guest Editorial Special Issue on New Developments in Neural Network Structures for Signal Processing, Autonomous Decision, and Adaptive Control. *IEEE Transactions on Neural Networks and Learning Systems*, **2017**, 28, 494-499	10.3	6
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94	Liquid computing of spiking neural network with multi-clustered and active-neuron-dominant structure. *Neurocomputing*, **2017**, 243, 155-165	5.4	5
93	A general approach to precise tracking of nonlinear systems subject to non-vanishing uncertainties. *Automatica*, **2019**, 106, 306-314	5.7	5
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91	A novel active adhesion control design for high speed trains without vehicle speed measurement **2014**,		5
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89	A low-cost estimator for target localization and circumnavigation using bearing measurements. *Journal of the Franklin Institute*, **2020**, 357, 9654-9672	4	5

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87	Imbalanced dataset-based echo state networks for anomaly detection. *Neural Computing and Applications*, **2020**, 32, 3685-3694	4.8	5
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85	. *IEEE Transactions on Automatic Control*, **2018**, 1-1	5.9	5
84	Output feedback control for constrained pure-feedback systems: A non-recursive and transformational observer based approach. *Automatica*, **2020**, 113, 108789	5.7	4
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