

Shuzhi Sam Ge

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.

456
papers

19,650
citations

66
h-index

132
g-index

578
ext. papers

24,526
ext. citations

4.2
avg, IF

7.62
L-index

#	Paper	IF	Citations
456	Barrier Lyapunov Functions for the control of output-constrained nonlinear systems. <i>Automatica</i> , 2009 , 45, 918-927	5.7	1308
455	Adaptive tracking control of uncertain MIMO nonlinear systems with input constraints. <i>Automatica</i> , 2011 , 47, 452-465	5.7	702
454	Adaptive neural control for output feedback nonlinear systems using a barrier Lyapunov function. <i>IEEE Transactions on Neural Networks</i> , 2010 , 21, 1339-45		598
453	Robust adaptive neural network control for a class of uncertain MIMO nonlinear systems with input nonlinearities. <i>IEEE Transactions on Neural Networks</i> , 2010 , 21, 796-812		563
452	Adaptive neural control of uncertain MIMO nonlinear systems. <i>IEEE Transactions on Neural Networks</i> , 2004 , 15, 674-92		553
451	Control of nonlinear systems with time-varying output constraints. <i>Automatica</i> , 2011 , 47, 2511-2516	5.7	546
450	Adaptive neural control of nonlinear time-delay systems with unknown virtual control coefficients. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2004 , 34, 499-516		459
449	Cooperative control of a nonuniform gantry crane with constrained tension. <i>Automatica</i> , 2016 , 66, 146-154		416
448	Leader-follower formation control of underactuated autonomous underwater vehicles. <i>Ocean Engineering</i> , 2010 , 37, 1491-1502	3.9	381
447	Adaptive Control of a Flexible Crane System With the Boundary Output Constraint. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 4126-4133	8.9	349
446	Design and analysis of a general recurrent neural network model for time-varying matrix inversion. <i>IEEE Transactions on Neural Networks</i> , 2005 , 16, 1477-90		322
445	Direct Adaptive Neural Control for a Class of Uncertain Nonaffine Nonlinear Systems Based on Disturbance Observer. <i>IEEE Transactions on Cybernetics</i> , 2013 , 43, 1213-25	10.2	294
444	Robust adaptive boundary control of a flexible marine riser with vessel dynamics. <i>Automatica</i> , 2011 , 47, 722-732	5.7	278
443	Adaptive Fuzzy Control of a Class of Nonlinear Systems by Fuzzy Approximation Approach. <i>IEEE Transactions on Fuzzy Systems</i> , 2012 , 20, 1012-1021	8.3	276
442	Control of nonlinear systems with partial state constraints using a barrier Lyapunov function. <i>International Journal of Control</i> , 2011 , 84, 2008-2023	1.5	266
441	Robust adaptive tracking for time-varying uncertain nonlinear systems with unknown control coefficients. <i>IEEE Transactions on Automatic Control</i> , 2003 , 48, 1463-1469	5.9	265
440	Adaptive Neural Output Feedback Control of Uncertain Nonlinear Systems With Unknown Hysteresis Using Disturbance Observer. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 7706-7716	8.9	259

439	Adaptive neural network tracking control of MIMO nonlinear systems with unknown dead zones and control directions. <i>IEEE Transactions on Neural Networks</i> , 2009 , 20, 483-97		250
438	Stability Theory of Switched Dynamical Systems. <i>Communications and Control Engineering</i> , 2011 ,	0.6	235
437	Vibration Control of a Flexible Beam With Output Constraint. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 5023-5030	8.9	233
436	Adaptive neural network control of nonlinear systems with unknown time delays. <i>IEEE Transactions on Automatic Control</i> , 2003 , 48, 2004-2010	5.9	223
435	Neural-network control of nonaffine nonlinear system with zero dynamics by state and output feedback. <i>IEEE Transactions on Neural Networks</i> , 2003 , 14, 900-18		214
434	Unified iterative learning control for flexible structures with input constraints. <i>Automatica</i> , 2018 , 96, 326-336	5.7	210
433	Finite Time Fault Tolerant Control for Robot Manipulators Using Time Delay Estimation and Continuous Nonsingular Fast Terminal Sliding Mode Control. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 1681-1693	10.2	207
432	A unified quadratic-programming-based dynamical system approach to joint torque optimization of physically constrained redundant manipulators. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2004 , 34, 2126-32		200
431	Approximation-based adaptive tracking control of pure-feedback nonlinear systems with multiple unknown time-varying delays. <i>IEEE Transactions on Neural Networks</i> , 2010 , 21, 1804-16		177
430	Autonomous vehicle positioning with GPS in urban canyon environments. <i>IEEE Transactions on Automation Science and Engineering</i> , 2003 , 19, 15-25		174
429	Robust Adaptive Position Mooring Control for Marine Vessels. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 395-409	4.8	172
428	Output feedback NN control for two classes of discrete-time systems with unknown control directions in a unified approach. <i>IEEE Transactions on Neural Networks</i> , 2008 , 19, 1873-86		165
427	Top Tension Control of a Flexible Marine Riser by Using Integral-Barrier Lyapunov Function. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 497-505	5.5	162
426	. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019 , 49, 1448-1458	7.3	160
425	Adaptive Neural Network Control of a Robotic Manipulator With Time-Varying Output Constraints. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 3136-3147	10.2	159
424	Adaptive neural control for a class of switched nonlinear systems. <i>Systems and Control Letters</i> , 2009 , 58, 109-118	2.4	158
423	Neural Network Control of a Rehabilitation Robot by State and Output Feedback. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2015 , 80, 15-31	2.9	149
422	Adaptive Neural Network Control of a Fully Actuated Marine Surface Vessel With Multiple Output Constraints. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 1536-1543	4.8	149

4 ²¹	Adaptive predictive control using neural network for a class of pure-feedback systems in discrete time. <i>IEEE Transactions on Neural Networks</i> , 2008 , 19, 1599-614		149
4 ²⁰	HumanRobot Collaboration Based on Motion Intention Estimation. <i>IEEE/ASME Transactions on Mechatronics</i> , 2014 , 19, 1007-1014	5.5	148
4 ¹⁹	Adaptive neural control for a class of uncertain nonlinear systems in pure-feedback form with hysteresis input. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2009 , 39, 431-43		147
4 ¹⁸	Adaptive neural network control for a class of MIMO nonlinear systems with disturbances in discrete-time. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2004 , 34, 1630-45		144
4 ¹⁷	Adaptive output-feedback control for a class of uncertain stochastic non-linear systems with time delays. <i>International Journal of Control</i> , 2008 , 81, 1210-1220	1.5	142
4 ¹⁶	Robust adaptive control of a thruster assisted position mooring system. <i>Automatica</i> , 2014 , 50, 1843-1851	3.7	141
4 ¹⁵	Globally Stable Adaptive Backstepping Neural Network Control for Uncertain Strict-Feedback Systems With Tracking Accuracy Known a Priori. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2015 , 26, 1842-54	10.3	140
4 ¹⁴	Face recognition by applying wavelet subband representation and kernel associative memory. <i>IEEE Transactions on Neural Networks</i> , 2004 , 15, 166-77		139
4 ¹³	Robust Adaptive Neural Tracking Control for a Class of Perturbed Uncertain Nonlinear Systems With State Constraints. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2016 , 46, 1618-1629	7.3	129
4 ¹²	Adaptive NN Control of a Class of Nonlinear Systems With Asymmetric Saturation Actuators. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2015 , 26, 1532-8	10.3	127
4 ¹¹	Output feedback adaptive control of a class of nonlinear discrete-time systems with unknown control directions. <i>Automatica</i> , 2009 , 45, 270-276	5.7	125
4 ¹⁰	Adaptive robust motion/force control of holonomic-constrained nonholonomic mobile manipulators. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2007 , 37, 607-16		119
4 ⁰⁹	Constrained Multilegged Robot System Modeling and Fuzzy Control With Uncertain Kinematics and Dynamics Incorporating Foot Force Optimization. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2016 , 46, 1-15	7.3	108
4 ⁰⁸	Vibration control of an EulerBernoulli beam under unknown spatiotemporally varying disturbance. <i>International Journal of Control</i> , 2011 , 84, 947-960	1.5	100
4 ⁰⁷	Boundary Control of a Coupled Nonlinear Flexible Marine Riser. <i>IEEE Transactions on Control Systems Technology</i> , 2010 , 18, 1080-1091	4.8	99
4 ⁰⁶	Adaptive actuator fault tolerant control for uncertain nonlinear systems with multiple actuators. <i>Automatica</i> , 2015 , 60, 92-99	5.7	92
4 ⁰⁵	Modeling and Vibration Control for a Nonlinear Moving String With Output Constraint. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 1886-1897	5.5	92
4 ⁰⁴	Adaptive neural network control for active suspension system with actuator saturation. <i>IET Control Theory and Applications</i> , 2016 , 10, 1696-1705	2.5	90

403	fNIRS-based online deception decoding. <i>Journal of Neural Engineering</i> , 2012 , 9, 026012	5	89
402	Impedance Learning for Robots Interacting With Unknown Environments. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 1422-1432	4.8	88
401	Adaptive boundary control of a flexible marine installation system. <i>Automatica</i> , 2011 , 47, 2728-2734	5.7	88
400	Scheduling-and-Control Codesign for a Collection of Networked Control Systems With Uncertain Delays. <i>IEEE Transactions on Control Systems Technology</i> , 2010 , 18, 66-78	4.8	88
399	Control of state-constrained nonlinear systems using Integral Barrier Lyapunov Functionals 2012 ,		86
398	Vibration Control of a Nonuniform Wind Turbine Tower via Disturbance Observer. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 237-244	5.5	78
397	Practical adaptive neural control of nonlinear systems with unknown time delays. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2005 , 35, 849-54		73
396	Weighted locally linear embedding for dimension reduction. <i>Pattern Recognition</i> , 2009 , 42, 798-811	7.7	72
395	Active control of flexible marine risers. <i>Journal of Sound and Vibration</i> , 2009 , 320, 758-776	3.9	70
394	Drift Compensation for Electronic Nose by Semi-Supervised Domain Adaption. <i>IEEE Sensors Journal</i> , 2014 , 14, 657-665	4	69
393	Consensus-based distributed cooperative learning control for a group of discrete-time nonlinear multi-agent systems using neural networks. <i>Automatica</i> , 2014 , 50, 2254-2268	5.7	68
392	Adaptive Neural Network Control for Helicopters in Vertical Flight. <i>IEEE Transactions on Control Systems Technology</i> , 2008 , 16, 753-762	4.8	67
391	Automatic Welding Seam Tracking and Identification. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 7261-7271	8.9	66
390	Optimized Backstepping for Tracking Control of Strict-Feedback Systems. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018 , 29, 3850-3862	10.3	66
389	Learning impedance control for physical robot-environment interaction. <i>International Journal of Control</i> , 2012 , 85, 182-193	1.5	66
388	Adaptive Boundary Control of a Nonlinear Flexible String System. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 1088-1093	4.8	65
387	Adaptive neural control for a class of nonlinear systems with uncertain hysteresis inputs and time-varying state delays. <i>IEEE Transactions on Neural Networks</i> , 2009 , 20, 1148-64		65
386	Boundary Output-Feedback Stabilization of a Timoshenko Beam Using Disturbance Observer. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 5186-5194	8.9	64

385	Adaptive output feedback NN control of a class of discrete-time MIMO nonlinear systems with unknown control directions. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2011 , 41, 507-17		64
384	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2015 , 51, 1422-1431	3.7	62
383	Boundary Control of a Flexible Riser With the Application to Marine Installation. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 5802-5810	8.9	62
382	Sliding-Mode-Observer-Based Adaptive Slip Ratio Control for Electric and Hybrid Vehicles. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2012 , 13, 1617-1626	6.1	62
381	Reduction of trial-to-trial variability in functional near-infrared spectroscopy signals by accounting for resting-state functional connectivity. <i>Journal of Biomedical Optics</i> , 2013 , 18, 17003	3.5	61
380	Two-Layer Distributed Formation-Containment Control of Multiple Euler-Lagrange Systems by Output Feedback. <i>IEEE Transactions on Cybernetics</i> , 2019 , 49, 675-687	10.2	61
379	Adaptive Tracking Control of Surface Vessel Using Optimized Backstepping Technique. <i>IEEE Transactions on Cybernetics</i> , 2019 , 49, 3420-3431	10.2	60
378	Hand gesture recognition and tracking based on distributed locally linear embedding. <i>Image and Vision Computing</i> , 2008 , 26, 1607-1620	3.7	60
377	Adaptive robust control of a class of nonlinear strict-feedback discrete-time systems with unknown control directions. <i>Systems and Control Letters</i> , 2008 , 57, 888-895	2.4	60
376	Adaptive neural control for an uncertain robotic manipulator with joint space constraints. <i>International Journal of Control</i> , 2016 , 89, 1428-1446	1.5	58
375	Adaptive Robust Output-Feedback Motion/Force Control of Electrically Driven Nonholonomic Mobile Manipulators. <i>IEEE Transactions on Control Systems Technology</i> , 2008 , 16, 1308-1315	4.8	58
374	Vibration Control of a Flexible String With Both Boundary Input and Output Constraints. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 1245-1254	4.8	57
373	Recognition of stimulus-evoked neuronal optical response by identifying chaos levels of near-infrared spectroscopy time series. <i>Neuroscience Letters</i> , 2011 , 504, 115-120	3.3	57
372	Robust Fault-Tolerant Control for a Class of Second-Order Nonlinear Systems Using an Adaptive Third-Order Sliding Mode Control. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2016 , 1-8	7.3	52
371	Robust adaptive control of coordinated multiple mobile manipulators. <i>Mechatronics</i> , 2008 , 18, 239-250	3	52
370	Robust Adaptive Control for a Class of MIMO Nonlinear Systems by State and Output Feedback. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 1624-1629	5.9	50
369	Data Driven Adaptive Predictive Control for Holonomic Constrained Under-Actuated Biped Robots. <i>IEEE Transactions on Control Systems Technology</i> , 2012 , 20, 787-795	4.8	50
368	Detection of event-related hemodynamic response to neuroactivation by dynamic modeling of brain activity. <i>NeuroImage</i> , 2012 , 63, 553-68	7.9	50

367	Nonlinear control of a dynamic model of HIV-1. <i>IEEE Transactions on Biomedical Engineering</i> , 2005 , 52, 353-61	5	49
366	Impedance adaptation for optimal robot–environment interaction. <i>International Journal of Control</i> , 2014 , 87, 249-263	1.5	48
365	Cortical brain imaging by adaptive filtering of NIRS signals. <i>Neuroscience Letters</i> , 2012 , 514, 35-41	3.3	48
364	. <i>IEEE Transactions on Industrial Electronics</i> , 2010 , 57, 784-792	8.9	48
363	Cognitive Radio Based State Estimation in Cyber-Physical Systems. <i>IEEE Journal on Selected Areas in Communications</i> , 2014 , 32, 489-502	14.2	47
362	. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 321-337	5.9	47
361	Small traffic sign detection from large image. <i>Applied Intelligence</i> , 2020 , 50, 1-13	4.9	47
360	Multilayer formation control of multi-agent systems. <i>Automatica</i> , 2019 , 109, 108558	5.7	46
359	Control of nonlinear systems with full state constraint using a Barrier Lyapunov Function 2009 ,		46
358	Stabilization and tracking control for a class of nonlinear systems. <i>Nonlinear Analysis: Real World Applications</i> , 2011 , 12, 1786-1796	2.1	46
357	Formation Tracking Control of Multiagents in Constrained Space. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 992-1003	4.8	45
356	Optimized Adaptive Nonlinear Tracking Control Using Actor–Critic Reinforcement Learning Strategy. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 4969-4977	11.9	44
355	Output feedback control of a class of discrete MIMO nonlinear systems with triangular form inputs. <i>IEEE Transactions on Neural Networks</i> , 2005 , 16, 1491-503		44
354	Adaptive Control of Robotic Manipulators With Unified Motion Constraints. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2017 , 47, 184-194	7.3	43
353	Adaptive control of a class of discrete-time MIMO nonlinear systems with uncertain couplings. <i>International Journal of Control</i> , 2010 , 83, 2120-2133	1.5	43
352	Robust adaptive control of cooperating mobile manipulators with relative motion. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2009 , 39, 103-16		43
351	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2018 , 54, 2233-2245	3.7	42
350	A noniterative neuro-fuzzy based identification method for Hammerstein processes. <i>Journal of Process Control</i> , 2005 , 15, 749-761	3.9	42

349	Adaptive dynamic surface control for a class of strict-feedback nonlinear systems with unknown backlash-like hysteresis 2009 ,		41
348	Boundary following and globally convergent path planning using instant goals. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2005 , 35, 240-54		41
347	Robust adaptive control for a class of uncertain strict-feedback nonlinear systems. <i>International Journal of Robust and Nonlinear Control</i> , 2009 , 19, 746-767	3.6	40
346	Neural network tracking control of ocean surface vessels with input saturation 2009 ,		39
345	Adaptive control of a quadrotor aerial vehicle with input constraints and uncertain parameters. <i>International Journal of Control</i> , 2018 , 91, 1140-1160	1.5	38
344	Dynamics and Control of Mechanical Systems in Offshore Engineering. <i>Advances in Industrial Control</i> , 2014 ,	0.3	35
343	Modeling and Control of a Nonuniform Vibrating String Under Spatiotemporally Varying Tension and Disturbance. <i>IEEE/ASME Transactions on Mechatronics</i> , 2012 , 17, 1196-1203	5.5	34
342	Suppression of vibration caused by residual unbalance of rotor for magnetically suspended flywheel. <i>JVC/Journal of Vibration and Control</i> , 2013 , 19, 1962-1979	2	34
341	A global Implicit Function Theorem without initial point and its applications to control of non-affine systems of high dimensions. <i>Journal of Mathematical Analysis and Applications</i> , 2006 , 313, 251-261	1.1	34
340	Robust adaptive control of a class of nonlinear strict-feedback discrete-time systems with exact output tracking. <i>Automatica</i> , 2009 , 45, 2537-2545	5.7	32
339	Dynamic output feedback stabilization of a class of switched linear systems. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2003 , 50, 1111-1115		31
338	Stabilizability of Time-Varying Switched Systems Based on Piecewise Continuous Scalar Functions. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 2637-2644	5.9	31
337	Event-Triggered Coordination for Formation Tracking Control in Constrained Space With Limited Communication. <i>IEEE Transactions on Cybernetics</i> , 2019 , 49, 1000-1011	10.2	31
336	An integrated multi-population genetic algorithm for multi-vehicle task assignment in a drift field. <i>Information Sciences</i> , 2018 , 453, 227-238	7.7	30
335	Vibration Control of Flexible Marine Riser Systems With Input Saturation. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 1-1	5.5	30
334	Kinetics and Design of a Mechanically Dithered Ring Laser Gyroscope Position and Orientation System. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2013 , 62, 210-220	5.2	29
333	Simplified Optimized Backstepping Control for a Class of Nonlinear Strict-Feedback Systems With Unknown Dynamic Functions. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 4567-4580	10.2	29
332	. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 5640-5647	8.9	28

331	Robust Welding Seam Tracking and Recognition. <i>IEEE Sensors Journal</i> , 2017 , 17, 5609-5617	4	28
330	Sensor-based path planning for nonholonomic mobile robots subject to dynamic constraints. <i>Robotics and Autonomous Systems</i> , 2007 , 55, 513-526	3.5	28
329	. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 1730-1741	11.9	28
328	Control of Coupled Vessel, Crane, Cable, and Payload Dynamics for Subsea Installation Operations. <i>IEEE Transactions on Control Systems Technology</i> , 2011 , 19, 208-220	4.8	27
327	Multirobot Formations Based on the Queue-Formation Scheme With Limited Communication 2007 , 23, 1160-1169		27
326	Optimal critic learning for robot control in time-varying environments. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2015 , 26, 2301-10	10.3	26
325	Prosthetic finger phalanges with lifelike skin compliance for low-force social touching interactions. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2011 , 8, 16	5.3	26
324	Adaptive Neural Network Control of Hard Disk Drives With Hysteresis Friction Nonlinearity. <i>IEEE Transactions on Control Systems Technology</i> , 2011 , 19, 351-358	4.8	26
323	Fault Diagnosis in Image-Based Visual Servoing With Eye-in-Hand Configurations Using Kalman Filter. <i>IEEE Transactions on Industrial Informatics</i> , 2016 , 12, 1998-2007	11.9	25
322	Adaptive robust controls of biped robots. <i>IET Control Theory and Applications</i> , 2013 , 7, 161-175	2.5	25
321	. <i>IEEE Journal of Oceanic Engineering</i> , 2010 , 35, 366-375	3.3	25
320	Fixed-Time-Synchronized Consensus Control of Multiagent Systems. <i>IEEE Transactions on Control of Network Systems</i> , 2021 , 8, 89-98	4	25
319	Force tracking control for motion synchronization in human-robot collaboration. <i>Robotica</i> , 2016 , 34, 1260-1281	12.5	25
318	Design of Chirp Waveforms for Multiple-Access Ultrasonic Indoor Positioning. <i>IEEE Sensors Journal</i> , 2018 , 18, 6375-6390	4	24
317	Styled-Velocity Flocking of Autonomous Vehicles: A Systematic Design. <i>IEEE Transactions on Automatic Control</i> , 2015 , 60, 2015-2030	5.9	24
316	k-NS: a classifier by the distance to the nearest subspace. <i>IEEE Transactions on Neural Networks</i> , 2011 , 22, 1256-68		24
315	Dynamic modelling and adaptive robust tracking control of a space robot with two-link flexible manipulators under unknown disturbances. <i>International Journal of Control</i> , 2018 , 91, 969-988	1.5	23
314	Dynamic Output Feedback Asynchronous Control of Networked Markovian Jump Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 50, 2705-2715	7.3	23

313	Stability analysis of discrete-time switched systems via Multi-step multiple Lyapunov-like functions. <i>Nonlinear Analysis: Hybrid Systems</i> , 2018 , 27, 44-61	4.5	22
312	Dynamic modeling for shear stress induced ATP release from vascular endothelial cells. <i>Biomechanics and Modeling in Mechanobiology</i> , 2008 , 7, 345-53	3.8	22
311	Neural-Network-Based Switching Formation Tracking Control of Multiagents With Uncertainties in Constrained Space. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019 , 49, 1006-1015	7.3	22
310	Role playing learning for socially concomitant mobile robot navigation. <i>CAAI Transactions on Intelligence Technology</i> , 2018 , 3, 49-58	9.7	22
309	Impulsive stabilization of fractional differential systems. <i>ISA Transactions</i> , 2017 , 70, 125-131	5.5	21
308	Boundary output feedback control of a flexible string system with input saturation. <i>Nonlinear Dynamics</i> , 2015 , 80, 871-888	5	21
307	Coverage planning in computer-assisted ablation based on Genetic Algorithm. <i>Computers in Biology and Medicine</i> , 2014 , 49, 36-45	7	21
306	Distributed coordinated tracking control of multiple Euler-Lagrange systems by state and output feedback. <i>IET Control Theory and Applications</i> , 2017 , 11, 2213-2221	2.5	21
305	. <i>IEEE Industrial Electronics Magazine</i> , 2007 , 54, 1375-1386	6.2	21
304	Boundedness and stability analysis for impulsive stochastic differential equations driven by G-Brownian motion. <i>International Journal of Control</i> , 2019 , 92, 642-652	1.5	21
303	Multiple Access Chirp-Based Ultrasonic Positioning. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2017 , 66, 3126-3137	5.2	20
302	Neural networks impedance control of robots interacting with environments. <i>IET Control Theory and Applications</i> , 2013 , 7, 1509-1519	2.5	20
301	A Survey on Visual Navigation for Artificial Agents With Deep Reinforcement Learning. <i>IEEE Access</i> , 2020 , 8, 135426-135442	3.5	20
300	Efficient Routing for Precedence-Constrained Package Delivery for Heterogeneous Vehicles. <i>IEEE Transactions on Automation Science and Engineering</i> , 2020 , 17, 248-260	4.9	20
299	Adaptive Fuzzy Integral Sliding-Mode Control for Robust Fault-Tolerant Control of Robot Manipulators With Disturbance Observer. <i>IEEE Transactions on Fuzzy Systems</i> , 2021 , 29, 1284-1296	8.3	20
298	. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 1312-1322	11.9	19
297	Speaker state classification based on fusion of asymmetric simple partial least squares (SIMPLS) and support vector machines. <i>Computer Speech and Language</i> , 2014 , 28, 392-419	2.8	19
296	Vision-Based Leader-Follower Formation Control of Multiagents With Visibility Constraints. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 1326-1333	4.8	19

295	Temporal Convolutional Memory Networks for Remaining Useful Life Estimation of Industrial Machinery 2019 ,		18
294	Kinematic Analysis and Motion Control of Wheeled Mobile Robots in Cylindrical Workspaces. <i>IEEE Transactions on Automation Science and Engineering</i> , 2016 , 13, 1207-1214	4.9	18
293	Robust adaptive output feedback control of a class of discrete-time nonlinear systems with nonlinear uncertainties and unknown control directions. <i>International Journal of Robust and Nonlinear Control</i> , 2013 , 23, 1472-1495	3.6	18
292	Aircraft-on-ground path following control by dynamical adaptive backstepping. <i>Chinese Journal of Aeronautics</i> , 2013 , 26, 668-675	3.7	18
291	Dwell time based stabilisability criteria for discrete-time switched systems. <i>International Journal of Systems Science</i> , 2017 , 48, 3087-3097	2.3	18
290	Adaptive boundary control for a class of inhomogeneous Timoshenko beam equations with constraints. <i>IET Control Theory and Applications</i> , 2014 , 8, 1285-1292	2.5	18
289	Facial expression recognition and tracking for intelligent human-robot interaction. <i>Intelligent Service Robotics</i> , 2008 , 1, 143-157	2.6	18
288	Adaptive neural dynamic surface control of output constrained non-linear systems with unknown control direction. <i>IET Control Theory and Applications</i> , 2017 , 11, 2994-3003	2.5	17
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199	Robust Output-feedback Stabilization for a Class of Uncertain Stochastic Nonlinear Systems with Time-varying Time Delays 2007 ,		6
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168	Cooperative control design for circular flocking of underactuated hovercrafts 2011 ,		4
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148	Output-feedback adaptive control of electrostatic microactuators 2009 ,		3
147	A topological approach of path planning for autonomous robot navigation in dynamic environments 2009 ,		3
146	Robust stability of discrete-time switched delay systems and its application to network-based reliable control 2009 ,		3
145	Robust Adaptive Control of Coordinated Multiple Mobile Manipulators. <i>Control Applications (CCA), Proceedings of the IEEE International Conference on</i> , 2007 ,		3
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143	Energy-based Robust controller design for flexible spacecraft. <i>Journal of Control Theory and Applications</i> , 2004 , 2, 27-34		3
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140	Continuous predictive control based on dynamic surface design with application to trajectory tracking. <i>Applied Ocean Research</i> , 2021 , 111, 102615	3.4	3
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126	Distributed Formation Control of Multiple Euler-Lagrange Systems: A Multilayer Framework. <i>IEEE Transactions on Cybernetics</i> , 2020 , PP,	10.2	2
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120	Backstepping control and active vibration control for a free-flying space robot with rigid-flexible links by singular perturbation approach 2014 ,		2
119	Adaptive control design for a nonuniform gantry crane with constrained tension 2014 ,		2
118	Reinforcement learning control for a robotic manipulator with unknown deadzone 2014 ,		2
117	Robust adaptive neural network control of aircraft braking system 2012 ,		2
116	Modeling and simulation of magnetic induction wireless communication for a deepwater mooring system 2012 ,		2

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112	Synchronized tracking control of multi-agent system with limited information 2010 ,		2
111	Fuzzy static output feedback H infinity control for nonlinear systems with time-varying delay: An LMI approach 2010 ,		2
110	Neural-network-based human intention estimation for physical human-robot interaction 2011 ,		2
109	Semi-parametric adaptive control of discrete-time nonlinear systems 2009 ,		2
108	Approximation-based adaptive tracking control of pure-feedback nonlinear systems with multiple unknown time-varying delays 2009 ,		2
107	Nonlinear control of aircraft on ground runway keeping 2011 ,		2
106	Vibration control of a coupled nonlinear string system in transverse and longitudinal directions 2011 ,		2
105	Online brain imaging by QR factorization of normalized regressor functions 2012 ,		2
104	The Strategy of Designing Seek Current Profile to Reduce Acoustic Noise and Residual Vibrations. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 1319-1322	2	2
103	Adaptive neural control of SISO non-affine nonlinear time-delay systems with unknown hysteresis input 2008 ,		2
102	Improved Direct Adaptive Fuzzy Control for a Class of MIMO Nonlinear Systems 2006 ,		2
101	Incremental Path Planning Using Partial Map Information for Mobile Robots 2006 ,		2
100	. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	2
99	Bidirectional Flow Shop Scheduling with Multi-Machine Capacity and Critical Operation Sequencing 2007 ,		2
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96	Robust Output Feedback H _∞ Control of Uncertain Markovian Jump Systems with Mode-Dependent Time-Delays 2006 ,		2
95	Adaptive neural network control of nonlinear MIMO time-delay systems with unknown bounds on delay functionals		2
94	Adaptive Neural Network Control of an Airborne Robotic Manipulator System 2020 ,		2
93	Output-Based Event-Triggered Cooperative Robust Regulation for Constrained Heterogeneous Multiagent Systems. <i>IEEE Transactions on Cybernetics</i> , 2020 , PP,	10.2	2
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