

Heidar Ali Talebi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/496749/publications.pdf>

Version: 2024-02-01

272
papers

4,476
citations

168829

31
h-index

169272

56
g-index

273
all docs

273
docs citations

273
times ranked

4405
citing authors

#	ARTICLE	IF	CITATIONS
1	A Decentralized Power Management and Sliding Mode Control Strategy for Hybrid AC/DC Microgrids including Renewable Energy Resources. IEEE Transactions on Industrial Informatics, 2024, , 1-1.	7.2	169
2	Notice of Violation of IEEE Publication Principles: A Hybrid ANFIS/ABC-based Online Selective Harmonic Elimination Switching Pattern for Cascaded Multi-level Inverters of Microgrids. IEEE Transactions on Industrial Electronics, 2024, , 1-1.	5.2	14
3	A finite-time adaptive order estimation approach for non-integer order nonlinear systems. ISA Transactions, 2022, 127, 383-394.	3.1	5
4	Some necessary conditions on output redefinition in non-minimum phase systems. International Journal of Dynamics and Control, 2021, 9, 173-178.	1.5	0
5	Design of adaptive optimal robust control for two-flexible-link manipulators in the presence of matched uncertainties. JVC/Journal of Vibration and Control, 2021, 27, 612-628.	1.5	5
6	Fault-tolerant consensus of nonlinear multi-agent systems with directed link failures, communication noise and actuator faults. International Journal of Control, 2021, 94, 60-74.	1.2	11
7	Stability Analysis and Performance Evaluation of Delayed Bilateral Telerobotic Systems over a Lossy Communication Channel. Journal of Systems Science and Complexity, 2021, 34, 157-179.	1.6	3
8	Resilient control of multi-microgrids against false data injection attack. ISA Transactions, 2021, 110, 238-246.	3.1	24
9	OC/OL Protection of Droop-Controlled and Directly Voltage-Controlled Microgrids Using TMF/ANN-Based Fault Detection and Discrimination. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 3254-3265.	3.7	17
10	A non-conservative state feedback control methodology for linear systems with state delay. International Journal of Systems Science, 2021, 52, 2549-2563.	3.7	5
11	A compact valveless pressure control source for soft rehabilitation glove. International Journal of Medical Robotics and Computer Assisted Surgery, 2021, 17, e2298.	1.2	6
12	A Lyapunov-based model predictive control strategy in a permanent magnet synchronous generator wind turbine. International Journal of Electrical Power and Energy Systems, 2021, 130, 106972.	3.3	28
13	Decentralized force and motion control of multiple cooperative manipulators. Automatika, 2021, 62, 98-108.	1.2	2
14	Leader-Following \mathcal{H}_{∞} Fault-Tolerant Consensus of Nonlinear Multi-agent Systems with External Disturbances. , 2021, , .		0
15	Disturbance observer-based \mathcal{H}_{∞} control strategy design to deal with both matched and mismatched uncertainties. International Journal of Robust and Nonlinear Control, 2021, 31, 1640-1656.	2.1	5
16	Real-time prediction of soft tissue deformation; a non-integer order modeling scheme and a practical verification for the theoretical concept. Chaos, Solitons and Fractals, 2021, 155, 111633.	2.5	1
17	A Robust Adaptive Model Reference Impedance Control of a Robotic Manipulator With Actuator Saturation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 409-420.	5.9	40
18	Design of higher-order sliding mode controller based on genetic algorithm for a cooperative robotic system. International Journal of Dynamics and Control, 2020, 8, 269-277.	1.5	6

#	ARTICLE	IF	CITATIONS
19	A Novel Cooperative Teleoperation Framework for Nonlinear Time-Delayed Single-Master/Multi-Slave System. <i>Robotica</i> , 2020, 38, 475-492.	1.3	9
20	Intraoperative Brain Shift Estimation Using Atlas of Brain Deformations and Constrained Kalman Filter. <i>IEEE Transactions on Control Systems Technology</i> , 2020, 28, 139-148.	3.2	3
21	A robust active control scheme for automotive engine vibration based on disturbance observer. <i>ISA Transactions</i> , 2020, 100, 13-27.	3.1	9
22	Stability analysis of systems with time-varying delays using overlapped switching Lyapunov Krasovskii functional. <i>Journal of the Franklin Institute</i> , 2020, 357, 10844-10860.	1.9	15
23	Cluster Consensus for Nonlinear Multi-Agent Systems. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2020, 100, 1069-1084.	2.0	13
24	Cluster consensus of fractional-order non-linear multi-agent systems with switching topology and time-delays via impulsive control. <i>International Journal of Systems Science</i> , 2020, 51, 1685-1698.	3.7	17
25	Trajectory tracking of an uncertain wheeled mobile robotic manipulator with a hybrid control approach. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020, 42, 1.	0.8	5
26	Peaking Attenuation of High-Gain Observers Using Adaptive Techniques: State Estimation and Feedback Control. <i>IEEE Transactions on Automatic Control</i> , 2020, 65, 4215-4229.	3.6	14
27	Robust model predictive control with sliding mode for constrained nonlinear systems. <i>IET Control Theory and Applications</i> , 2020, 14, 2592-2599.	1.2	14
28	Multi-Lateral Teleoperation Based on Multi-Agent Framework: Application to Simultaneous Training and Therapy in Telerehabilitation. <i>Frontiers in Robotics and AI</i> , 2020, 7, 538347.	2.0	5
29	Design and Implementation of a Two-DOF Robotic System with an Adjustable Force Limiting Mechanism for Ankle Rehabilitation. , 2019, , .		3
30	Output feedback controller for polytopic systems exploiting the direct searching of the design space. <i>International Journal of Robust and Nonlinear Control</i> , 2019, 29, 5164-5177.	2.1	21
31	An improved model predictive control of low voltage ride through in a permanent magnet synchronous generator in wind turbine systems. <i>Asian Journal of Control</i> , 2019, 21, 1991-2003.	1.9	12
32	Actuator Fault and Link Failure Accommodation for Disturbed Multi-User Telerehabilitation Systems Subject to Communication Noise. , 2019, , .		1
33	Full Order High Gain Observer Design for Image-Guided Robotic Flexible Needle Steering. , 2019, , .		6
34	Nonlinear H _∞ control scheme for a flying robot. <i>Latin American Journal of Solids and Structures</i> , 2019, 16, .	0.6	0
35	Robust Adaptive Dynamic Surface Control of Nonlinear Time-varying Systems in Strict-feedback Form. <i>International Journal of Control, Automation and Systems</i> , 2019, 17, 1432-1444.	1.6	15
36	Fuzzy Sliding Mode Controller Design for a Cooperative Robotic System With Uncertainty for Handling an Object. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2019, 141, .	0.9	10

#	ARTICLE	IF	CITATIONS
37	Model-based force/position control of cooperative manipulation systems. <i>Automatika</i> , 2019, 60, 113-123.	1.2	8
38	CONSENSUS TRACKING FOR NONLINEAR FRACTIONAL-ORDER MULTI-AGENT SYSTEMS USING ADAPTIVE SLIDING MODE CONTROLLER. <i>Mechatronic Systems and Control</i> , 2019, 47, .	0.2	5
39	A NOVEL ABSTRACTION METHODOLOGY FOR INTERCONNECTED HYBRID SYSTEMS USING THE EQUIVALENCE CONCEPT. <i>Mechatronic Systems and Control</i> , 2019, 47, .	0.2	0
40	Kinematics, Singularity Study and Optimization of an Innovative Spherical Parallel Manipulator with Large Workspace. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2018, 92, 309-321.	2.0	13
41	Minimum phase output determination for a desired relative degree: a constructive approach. <i>International Journal of Dynamics and Control</i> , 2018, 6, 1592-1598.	1.5	0
42	Decentralized Sliding Mode Control of WG/PV/FC Microgrids Under Unbalanced and Nonlinear Load Conditions for On- and Off-Grid Modes. <i>IEEE Systems Journal</i> , 2018, 12, 3108-3119.	2.9	106
43	Unbalanced harmonic power sharing and voltage compensation of microgrids using radial basis function neural network-based harmonic power-flow calculations for distributed and decentralised control structures. <i>IET Generation, Transmission and Distribution</i> , 2018, 12, 1518-1530.	1.4	75
44	Nonlinear Load Sharing and Voltage Compensation of Microgrids Based on Harmonic Power-Flow Calculations Using Radial Basis Function Neural Networks. <i>IEEE Systems Journal</i> , 2018, 12, 2749-2759.	2.9	101
45	Output consensus control of multi-agent systems with nonlinear non-minimum phase dynamics. <i>International Journal of Control</i> , 2018, 91, 785-796.	1.2	11
46	A Decentralized Robust Mixed H_2/H_∞ Voltage Control Scheme to Improve Small/Large-Signal Stability and FRT Capability of Islanded Multi-DER Microgrid Considering Load Disturbances. <i>IEEE Systems Journal</i> , 2018, 12, 2610-2621.	2.9	68
47	Generalized three phase robust load-flow for radial and meshed power systems with and without uncertainty in energy resources using dynamic radial basis functions neural networks. <i>Journal of Cleaner Production</i> , 2018, 174, 96-113.	4.6	39
48	Two Layer Sliding Mode-Model Predictive Control Scheme For Image-guided Robotic Flexible Needle Steering. , 2018, , .		0
49	On the Peaking Attenuation and Transient Response Improvement of High-Gain Observers. , 2018, , .		7
50	An Intelligent-Based Multiplicative Actuator Fault Estimation and Accommodation of Nonlinear Cooperative Systems. , 2018, , .		1
51	A novel scheme for output definition in feedback passivation of nonlinear systems. <i>International Journal of Systems Science</i> , 2018, 49, 3196-3201.	3.7	4
52	Robust Force Control of Piezoelectric Precision Positioning Actuators Using Self-Sensing Method. , 2018, , .		3
53	MOPSO/FDMT-based Pareto-optimal solution for coordination of overcurrent relays in interconnected networks and multi- DER microgrids. <i>IET Generation, Transmission and Distribution</i> , 2018, 12, 2871-2886.	1.4	79
54	Torque and Flux Ripples Minimization of Permanent Magnet Synchronous Motor by a Predictive-Based Hybrid Direct Torque Control. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2018, 6, 1662-1670.	3.7	35

#	ARTICLE	IF	CITATIONS
55	Multimodal Sensorimotor Integration for Expert-in-the-Loop Telerobotic Surgical Training. IEEE Transactions on Robotics, 2018, 34, 1549-1564.	7.3	21
56	Optimal adaptive Jacobian internal forces controller for multiple whole-limb manipulators in the presence of kinematic uncertainties. Mechatronics, 2018, 53, 1-7.	2.0	6
57	CONTROLLED INTERCONNECTED HYBRID SYSTEMS â€” A NEW FRAMEWORK FOR MULTI-AGENT SYSTEMS. Mechatronic Systems and Control, 2018, 46, .	0.2	0
58	A new approach for minimum phase output definition. International Journal of Systems Science, 2017, 48, 264-271.	3.7	8
59	Eigenvalue, Robustness and Time Delay Analysis of Hierarchical Control Scheme in Multi-DER Microgrid to Enhance Small/Large-Signal Stability Using Complementary Loop and Fuzzy Logic Controller. Journal of Circuits, Systems and Computers, 2017, 26, 1750099.	1.0	35
60	Performance Limitations of Nonminimum Phase Affine Nonlinear Systems. IEEE Transactions on Automatic Control, 2017, 62, 6430-6437.	3.6	3
61	A robust adaptive observer for a class of singular nonlinear uncertain systems. International Journal of Systems Science, 2017, 48, 1404-1415.	3.7	10
62	A new current limiting strategy and fault model to improve fault ride-through capability of inverter interfaced DERs in autonomous microgrids. Sustainable Energy Technologies and Assessments, 2017, 24, 71-81.	1.7	64
63	An adaptive control scheme for hyperbolic partial differential equation system (drilling system) with unknown coefficient. Archives of Control Sciences, 2017, 27, 63-76.	1.7	0
64	A novel adaptive order/parameter identification method for variable order systems application in viscoelastic soft tissue modeling. Chaos, Solitons and Fractals, 2017, 102, 447-455.	2.5	11
65	A generalized descriptor-system robust H ∞ control of autonomous microgrids to improve small and large signal stability considering communication delays and load nonlinearities. International Journal of Electrical Power and Energy Systems, 2017, 92, 63-82.	3.3	124
66	Fuzzy unscented transform for uncertainty quantification of correlated wind/PV microgrids: possibilisticâ€”probabilistic power flow based on RBFNNs. IET Renewable Power Generation, 2017, 11, 867-877.	1.7	76
67	Application of RBF neural networks and unscented transformation in probabilistic power-flow of microgrids including correlated wind/PV units and plug-in hybrid electric vehicles. Simulation Modelling Practice and Theory, 2017, 72, 51-68.	2.2	89
68	An indirect adaptive nonlinear teleoperation control based on operator-environment impedance identification. , 2017, , .		0
69	Adaptive near-optimal neuro controller for continuous-time nonaffine nonlinear systems with constrained input. Neural Networks, 2017, 93, 195-204.	3.3	18
70	An adaptive order/state estimator for linear systems with non-integer time-varying order. Automatica, 2017, 84, 1-9.	3.0	8
71	Non-integer variable order dynamic modeling and identification of soft tissue deformation. , 2017, , .		3
72	Robust Output Feedback Controller Design for Timeâ€”Delayed Teleoperation: Experimental Results. Asian Journal of Control, 2017, 19, 625-635.	1.9	15

#	ARTICLE	IF	CITATIONS
73	Three-phase AC/DC power flow for balanced/unbalanced microgrids including wind/solar, droop-controlled and electronically-coupled distributed energy resources using radial basis function neural networks. IET Power Electronics, 2017, 10, 313-328.	1.5	95
74	Performance analysis of an improved hierarchical droop-based control scheme under topological, parametric and communication uncertainties: Towards a resilient microgrid. , 2017, , .		1
75	Robust output feedback fault-tolerant control of non-linear multi-agent systems based on wavelet neural networks. IET Control Theory and Applications, 2017, 11, 3004-3015.	1.2	19
76	Haptic Tele-cooperation of Multiple Robots. , 2017, , .		0
77	Multi-lateral Nonlinear Time-Delayed Teleoperation in a Multi-agent Systems Framework. , 2017, , .		2
78	A three-dimensional large deformation model for soft tissue using meshless method. International Journal of Medical Robotics and Computer Assisted Surgery, 2016, 12, 241-253.	1.2	9
79	An estimation for heart motion in robot-assisted beating heart surgery using a modified adaptive EKF. , 2016, , .		0
80	Real-time point-cloud-based haptic rendering with fast contact detection. , 2016, , .		3
81	Model-based online estimation of interaction force in beating heart robotic-assisted surgery. , 2016, , .		0
82	A novel strategy for smooth force-position switching control of micropositioning piezoelectric actuators. , 2016, , .		1
83	An asymptotic torque estimation for robot manipulators. , 2016, , .		0
84	Neural network-based adaptive control of uncertain multivariable systems: Theory and experiments. , 2016, , .		4
85	On designing of leader-follower impedance consensus controllers for Lagrangian multi-agent systems. , 2016, , .		0
86	Force estimation of end-effector interacting with non-passive soft tissue in robotic beating heart surgery. , 2016, , .		0
87	A novel architecture for cooperative remote rehabilitation system. Computers and Electrical Engineering, 2016, 56, 715-731.	3.0	9
88	A framework for simultaneous training and therapy in multilateral tele-rehabilitation. Computers and Electrical Engineering, 2016, 56, 700-714.	3.0	19
89	A novel position and force coordination approach in four channel nonlinear teleoperation. Computers and Electrical Engineering, 2016, 56, 688-699.	3.0	8
90	Reliability/cost-based multi-objective Pareto optimal design of stand-alone wind/PV/FC generation microgrid system. Energy, 2016, 115, 1022-1041.	4.5	286

#	ARTICLE	IF	CITATIONS
91	Open-loop trajectory planning and nonlinear control for underactuated spherical wheel mobile robot (Ballbot). , 2016, , .		6
92	Impedance control of non-passive bilateral teleoperation systems with uncertain dynamics. , 2016, , .		2
93	Adaptive control of a telerobotic surgery system interacting with non-passive soft tissues. , 2016, , .		0
94	Position coordination of nonlinear teleoperation for unrestricted non-passive environment and operator in the presence of time delay. , 2016, , .		0
95	Impedance control realization of screw stiffness matrix in virtual fixtures. , 2016, , .		0
96	Force tracking impedance control of robot-tissue interaction with a hunt-crosseley model. , 2016, , .		2
97	A new observer-based adaptive controller for cooperative handling of an unknown object. Robotica, 2016, 34, 1437-1463.	1.3	12
98	Design and Implementation of Robust-Fixed Structure Controller for Telerobotic Systems. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 83, 253-269.	2.0	28
99	A new approach in UAV path planning using Bezierâ€“Dubins continuous curvature path. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2016, 230, 1103-1113.	0.7	20
100	Weakly and strongly non-minimum phase systems: properties and limitations. International Journal of Control, 2016, 89, 306-321.	1.2	5
101	Robust and efficient 3D motion tracking in robotic assisted beating heart surgery. , 2015, , .		3
102	A GPUâ€“implemented physicsâ€“based haptic simulator of tooth drilling. International Journal of Medical Robotics and Computer Assisted Surgery, 2015, 11, 476-485.	1.2	11
103	Stable adaptive output feedback controller for a class of uncertain nonâ€“linear systems. IET Control Theory and Applications, 2015, 9, 1329-1337.	1.2	15
104	Adaptive estimation of robot environmental force interacting with soft tissues. , 2015, , .		6
105	A robust force observer for robot manipulators subjected to external disturbance. , 2015, , .		4
106	A cooperative remote rehabilitation system. , 2015, , .		1
107	Adaptive control of unknown robotic systems cooperating on handling of an unknown object. , 2015, , .		6
108	Robust control of piezoelectric micro positioning actuator using self-sensing method. , 2015, , .		5

#	ARTICLE	IF	CITATIONS
109	Nonlinear bilateral teleoperation with flexible-link slave manipulator. , 2015, , .		4
110	Lyapunov stability analysis of a bilateral teleoperation system interacting with active environment. , 2015, , .		6
111	3D visual stabilization for robotic-assisted beating heart surgery using a thin-plate spline deformable model. , 2015, , .		5
112	Nonlinear disturbance observer based adaptive control for nonlinear teleoperation systems. , 2015, , .		3
113	A robust adaptive control scheme for an active mount using a dynamic engine model. JVC/Journal of Vibration and Control, 2015, 21, 2223-2245.	1.5	21
114	Adaptive output feedback tracking control for nonaffine nonlinear systems. , 2015, , .		3
115	An energy-saving nonlinear position control strategy for electro-hydraulic servo systems. ISA Transactions, 2015, 59, 268-279.	3.1	51
116	Output synchronization of multi-agent systems with nonlinear non-minimum phase dynamics. , 2015, , .		0
117	Environmental torque estimation for flexible-link manipulators based on nonlinear disturbance observer. , 2015, , .		1
118	Cooperative control of manipulator robotic systems with unknown dynamics. , 2015, , .		4
119	Rotating Switching Surface Control of Series-Resonant Converter Based on a Piecewise Affine Model. IEEE Transactions on Power Electronics, 2015, 30, 1762-1772.	5.4	18
120	Adaptive Control of Uncertain Nonaffine Nonlinear Systems With Input Saturation Using Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 2311-2322.	7.2	98
121	Novel Cooperative Teleoperation Framework: Multi-Master/Single-Slave System. IEEE/ASME Transactions on Mechatronics, 2015, 20, 1668-1679.	3.7	36
122	UAV Formation Control via the Virtual Structure Approach. Journal of Aerospace Engineering, 2015, 28, .	0.8	69
123	Estimation of intra-operative brain shift based on constrained Kalman filter. ISA Transactions, 2015, 55, 260-266.	3.1	3
124	Nonlinear Adaptive Output-Feedback Controller Design for Guidance of Flexible Needles. IEEE/ASME Transactions on Mechatronics, 2015, 20, 1912-1919.	3.7	19
125	UAVs cooperation: With a moving center based trajectory. Robotics and Autonomous Systems, 2015, 63, 1-9.	3.0	22
126	Forbidden region virtual fixture for nonlinear teleoperation systems with variable time delays. , 2014, , .		2

#	ARTICLE	IF	CITATIONS
127	A new method for finding minimum phase outputs. , 2014, , .		5
128	Nonlinear control of a non-passive bilateral teleoperation in presence of unsymmetric time varying delay. , 2014, , .		0
129	Path planning for insertion of a bevel tip steerable needle into a soft tissue in the presence of obstacles. , 2014, , .		1
130	Observer-based adaptive neural network control for a class of uncertain nonlinear systems. , 2014, , .		5
131	A controller"observer scheme for nonlinear bilateral teleoperation systems. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2014, 228, 49-59.	0.7	1
132	Dynamics model and adaptive control of underwater fish-like micro mobile robot with PZT actuator. , 2014, , .		0
133	Output feedback controller for series resonant converter using linear matrix inequality. , 2014, , .		1
134	A soccer playing humanoid robot: Design, algorithm and prototype. , 2014, , .		1
135	Damaged Airplane Trajectory Planning Based on Flight Envelope and Motion Primitives. Journal of Aircraft, 2014, 51, 1740-1757.	1.7	33
136	A noise adaptive method for needle localization in 3D ultrasound images. , 2014, , .		1
137	An expertise-oriented training framework for robotics-assisted surgery. , 2014, , .		16
138	Distributed Fault Detection and Isolation Filter Design for a Network of Heterogeneous Multiagent Systems. IEEE Transactions on Control Systems Technology, 2014, 22, 1061-1069.	3.2	131
139	Analytical Modeling and Analysis of Axial-Flux Interior Permanent-Magnet Couplers. IEEE Transactions on Industrial Electronics, 2014, 61, 5940-5947.	5.2	100
140	Networked dual-user teleoperation with time-varying authority adjustment: A wave variable approach. , 2014, , .		4
141	Robust force control in a novel electro-hydraulic structure using polytopic uncertainty representation. ISA Transactions, 2014, 53, 1873-1880.	3.1	19
142	A new interior permanent-magnet radial-flux eddy-current coupler. , 2014, , .		3
143	Design analysis of a new axial-flux interior permanent-magnet coupler. , 2014, , .		10
144	<math display="block">\mathcal{H}_{\infty}<math display="block">\mathcal{H}_{\infty} Based Motion Synchronization in Formation Flight With Delayed Communications. IEEE Transactions on Industrial Electronics, 2014, 61, 6175-6182.	5.2	58

#	ARTICLE	IF	CITATIONS
145	Hybrid fault diagnosis of nonlinear systems using neural parameter estimators. <i>Neural Networks</i> , 2014, 50, 12-32.	3.3	35
146	Needle Detection in 3D Ultrasound Images Using Anisotropic Diffusion and Robust Fitting. <i>Communications in Computer and Information Science</i> , 2014, , 111-120.	0.4	1
147	Simultaneous fault detection and control design for switched linear systems based on dynamic observer. <i>Optimal Control Applications and Methods</i> , 2013, 34, 35-52.	1.3	50
148	Mixed sensitivity problem solving for series resonant converters. , 2013, , .		0
149	Adaptive bilateral teleoperation of an unknown object handled by multiple robots under unknown communication delay. , 2013, , .		13
150	Dynamics model and control of underwater fish-like micro mobile robot with PZT actuator. , 2013, , .		7
151	The Routh-Hurwitz Stability Criterion, Revisited: The Case of Multiple Poles on Imaginary Axis. <i>IEEE Transactions on Automatic Control</i> , 2013, 58, 1866-1869.	3.6	25
152	Sliding mode hybrid impedance control of robot manipulators interacting with unknown environments using VSMRC method. , 2013, , .		3
153	Damaged airplane flight envelope and stability evaluation. <i>Aircraft Engineering and Aerospace Technology</i> , 2013, 85, 186-198.	0.8	26
154	Whole arm manipulation planning based on feedback velocity fields and sampling-based techniques. <i>ISA Transactions</i> , 2013, 52, 684-691.	3.1	3
155	Control of telerobotic systems with variable operator, variable environment and flexible slave. , 2013, , .		0
156	UAV guidance for tracking control of mobile robots in presence of obstacles. , 2013, , .		5
157	A robust semi-decentralized fault detection strategy for multi-agent systems. <i>International Journal of Intelligent Unmanned Systems</i> , 2013, 1, 21-35.	0.6	17
158	Robust cooperative control in the presence of obstacles. , 2013, , .		10
159	A sliding-mode controller for dual-user teleoperation with unknown constant time delays. <i>Robotica</i> , 2013, 31, 589-598.	1.3	12
160	A Neural Network-Based Multiplicative Actuator Fault Detection and Isolation of Nonlinear Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2013, 21, 842-851.	3.2	77
161	Vibration suppression of a flexible shaft system using indirect adaptive control. , 2013, , .		0
162	A new recursive algorithm for robotized beating heart surgery using ECG based covariance resetting. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
163	An adaptive hybrid force/motion control design for robot manipulators interacting in constrained motion with unknown non-rigid environments. , 2013, , .		0
164	A force observation method for tracking control of flexible-link manipulators. Robotica, 2013, 31, 669-677.	1.3	2
165	Adaptive coverage control in non-convex environments with unknown obstacles. , 2013, , .		7
166	A singularity-free approach for safe interaction of robot assisted rehabilitation, based on model-free impedance control. , 2013, , .		4
167	Nonlinear disturbance observer for flexible-link manipulators based on flexural rate estimation. , 2013, , .		3
168	Optimal Controller Design of Legless Piezo Capsbot Movement. International Journal of Advanced Robotic Systems, 2013, 10, 126.	1.3	3
169	Adaptive observer-based controller design for a class of nonlinear systems with application to image guided control of steerable needles. , 2012, , .		14
170	Stable interaction with an n-DOF virtual object using a modified passivity based control architecture. , 2012, , .		0
171	Adaptive Extended Kalman Filter for asynchronous shuttering error of stereo vision localization. , 2012, , .		1
172	A robust adaptive hybrid force/position control scheme of two planar manipulators handling an unknown object interacting with an environment. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2012, 226, 509-522.	0.7	13
173	Simultaneous Fault Detection and Control Design for Switched Linear Systems: A Linear Matrix Inequality Approach. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, .	0.9	27
174	A Multi-Master / Single-Slave Teleoperation System. , 2012, , .		5
175	An Adaptive Hybrid Force/Motion Control Design for Robot Manipulators Interacting in Constrained Motion With Unknown Non-Rigid Environments. , 2012, , .		3
176	Neural-Network-Based Sensor Fault Detection & Isolation for Nonlinear Hybrid Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1029-1034.	0.4	6
177	A model predictive method for efficient power ramp rate control of wind turbines. , 2012, , .		4
178	Scale-dependent method for whole arm grasp evaluation. , 2012, , .		2
179	Robust trajectory modification for tip position tracking of flexible-link manipulators. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2012, 226, 523-536.	0.7	5
180	Whole arm manipulation planning based on grasp dynamic properties and sampling-based algorithms with kinematic analysis. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
181	A novel distributed robust fault detection and isolation filter design for a network of nonhomogeneous multi-agent systems. , 2012, , .		11
182	Control of time-delayed telerobotic systems with flexible-link slave manipulators. , 2012, , .		15
183	An adaptive-dynamic sliding mode controller for non-minimum phase systems. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 414-425.	1.7	8
184	Robust attitude and vibration control of a nonlinear flexible spacecraft. Asian Journal of Control, 2012, 14, 553-563.	1.9	14
185	Bilateral control of master-slave manipulators with constant time delay. ISA Transactions, 2012, 51, 74-80.	3.1	29
186	Adaptive estimator-based dynamic sliding mode control for the water level of nuclear steam generators. Progress in Nuclear Energy, 2012, 56, 61-70.	1.3	27
187	Adaptive neural network control of bilateral teleoperation with constant time delay. Nonlinear Dynamics, 2012, 67, 1123-1134.	2.7	38
188	Sliding Mode Hybrid Impedance Control of Robot Manipulators Interacting With Unknown Environments Using VSMRC Method. , 2012, , .		6
189	Tip tracking of a rigid-flexible manipulator based on deflection estimation using neural network observer: A backstepping approach. , 2011, , .		0
190	A robust adaptive control scheme for two planar manipulators handling an unknown object in an assembly process. , 2011, , .		1
191	A higher order sliding mode control for cooperative systems with unknown time-delay. , 2011, , .		1
192	Control of flexible spacecraft using dynamic inversion and $\hat{\mu}$ -synthesis. JVC/Journal of Vibration and Control, 2011, 17, 1938-1951.	1.5	8
193	A new set of desired objectives for dual-user systems in the presence of unknown communication delay. , 2011, , .		7
194	A novel shared structure for dual user systems with unknown time-delay utilizing adaptive impedance control. , 2011, , .		16
195	A cooperative robotic system for handling a geometrically unknown object for non-rigid contact without force sensors. , 2011, , .		7
196	Robust leader-following formation control of multiple mobile robots using Lyapunov redesign. , 2011, , .		9
197	Leader-follower formation control of Autonomous Underwater Vehicles with limited communications. , 2011, , .		7
198	Control challenges in non-minimum phase tele-robotics systems. , 2011, , .		5

#	ARTICLE	IF	CITATIONS
199	A robust dynamic leader-follower formation control with active obstacle avoidance. , 2011, , .		12
200	Adaptive tiled Neural Networks. , 2011, , .		0
201	Adaptive distributed formation control of multiple autonomous underwater vehicles. , 2011, , .		5
202	Lyapunov stability analysis of special class of PDE systems. , 2011, , .		1
203	Tip tracking control of a rigid-flexible manipulator based on deflection estimation using neural networks: Application to needle insertion. , 2011, , .		12
204	A position driftless, modified wave variable scheme for time varying delayed teleoperation system. , 2011, , .		3
205	Nonlinear robust control of flexible-link manipulator with fuzzy compensator: Experimental results. , 2011, , .		1
206	A control methodology for single-master/multi-slave two-channel transparent teleoperation systems. , 2011, , .		2
207	A robust leader-obstacle formation control. , 2011, , .		4
208	Hybrid model predictive control of legless piezo capsubot. , 2011, , .		2
209	A Novel Simultaneous Fault Detection and Control Approach Based on Dynamic Observer. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 12036-12041.	0.4	15
210	Robust High Fidelity Needle Insertion in Soft Tissues Implemented on a Teleoperation System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 344-349.	0.4	8
211	Modeling and Robust Iterative Learning Control of a Quadruped Robot. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 9373-9378.	0.4	2
212	On Stability and Transparency of a Time-Discretized Time-Delayed Impedance-Controlled Force-Reflecting Teleoperation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 1145-1150.	0.4	0
213	Gain scheduled dynamic sliding mode control for nuclear steam generators. Progress in Nuclear Energy, 2011, 53, 651-663.	1.3	27
214	A Robust Nonlinear Control Approach for Tip Position Tracking of Flexible Spacecraft. IEEE Transactions on Aerospace and Electronic Systems, 2011, 47, 2423-2434.	2.6	24
215	An efficient power control scheme for electric arc furnaces using online estimation of flexible cable inductance. Computers and Mathematics With Applications, 2011, 62, 4391-4401.	1.4	16
216	Bilateral control of master-slave manipulators with constant time delay. , 2011, , .		2

#	ARTICLE	IF	CITATIONS
217	Adaptive neural network control of bilateral teleoperation with time delay. , 2011, , .		0
218	An adaptive hybrid control scheme for two planar manipulators handling an unknown object in an assembly process. , 2011, , .		3
219	Bang-bang control of a flexible-link manipulator with actuator saturation using neural network. , 2011, , .		1
220	Time delayed non-minimum phase slave tele-robotics. , 2011, , .		1
221	An adaptive observer-based controller design for time-delay teleoperation with uncertainty in environment and parameters. , 2011, , .		4
222	Cooperative robotic system for handling a geometrically unknown object. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2010, 224, 970-982.	0.7	2
223	A robust feedback linearization approach for tracking control of flexible-link manipulators using an EKF disturbance estimator. , 2010, , .		8
224	Effect of the PV/FC hybrid power generation system on total line loss in distribution network. , 2010, , .		1
225	A control architecture for dual user teleoperation with unknown time delays: A sliding mode approach. , 2010, , .		17
226	A Robust Active Vibration Control of Automotive Engine. , 2010, , .		0
227	Flexible Spacecraft Control Using Robust Feedback Linearization. , 2010, , .		1
228	Adaptive Hybrid Impedance Control of robotic manipulators. , 2010, , .		10
229	Slewing and vibration control of a nonlinear flexible spacecraft. , 2010, , .		1
230	An adaptive leader-follower formation controller for multiple AUVs in spatial motions. , 2010, , .		4
231	Nonlinear robust control of a biped robot. , 2010, , .		7
232	A new adaptive control of a Double-electromagnet suspension system. , 2010, , .		0
233	Tracking control of flexible-link manipulators based on environmental force disturbance observer. , 2010, , .		17
234	A robust control architecture for dual user teleoperation system with time-delay. , 2010, , .		11

#	ARTICLE	IF	CITATIONS
235	Tip position tracking of flexible-link manipulators based on online robust trajectory modification. , 2010, , .		3
236	Introducing a training methodology for Cellular Neural Networks with application to mechanical vibration problem. , 2009, , .		1
237	Design of a new wire bow-tie antenna for ultrawide-band GPR applications using multi-objective genetic algorithm. , 2009, , .		2
238	An observer-based neural networks control scheme for nonlinear systems. , 2009, , .		1
239	Introducing a training methodology for cellular neural networks solving partial differential equations. , 2009, , .		1
240	A Robust Position and Force Control Strategy for 7-DOF Redundant Manipulators. IEEE/ASME Transactions on Mechatronics, 2009, 14, 575-589.	3.7	54
241	A Recurrent Neural-Network-Based Sensor and Actuator Fault Detection and Isolation for Nonlinear Systems With Application to the Satellite's Attitude Control Subsystem. IEEE Transactions on Neural Networks, 2009, 20, 45-60.	4.8	196
242	A stable neural network-based controller for class of nonlinear systems. , 2009, , .		1
243	A new distributed coverage algorithm based on hexagonal formation. , 2009, , .		1
244	A Novel Robust Impulsive Chaos Synchronization Approach for Uncertain Complex Dynamical Networks. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2009, E92-A, 2499-2507.	0.2	4
245	Adaptive Control of a Double-Electromagnet Suspension System. Journal of Applied Sciences, 2009, 9, 1201-1214.	0.1	6
246	Neural Parameter Estimators for hybrid fault diagnosis and estimation in nonlinear systems. , 2007, , .		2
247	A robust Fault Detection and Isolation scheme with application to magnetorquer type actuators for satellites. , 2007, , .		1
248	A neural network-based actuator gain Fault Detection and Isolation strategy for nonlinear systems. , 2007, , .		10
249	Fault detection and isolation for uncertain nonlinear systems with application to a satellite reaction wheel actuator. , 2007, , .		12
250	A Fuzzy Lyapunov-Based Control Strategy for a Macro-Micro Manipulator: Experimental Results. IEEE Transactions on Control Systems Technology, 2007, 15, 375-383.	3.2	20
251	An intelligent sensor and actuator fault detection and isolation scheme for nonlinear systems. , 2007, , .		4
252	An intelligent Fault Detection and Recovery scheme for reaction wheel actuator of satellite attitude control systems. , 2006, , .		14

#	ARTICLE	IF	CITATIONS
253	Stable identification of nonlinear systems using neural networks: theory and experiments. IEEE/ASME Transactions on Mechatronics, 2006, 11, 488-495.	3.7	45
254	A Stable Neural Network-Based Observer With Application to Flexible-Joint Manipulators. IEEE Transactions on Neural Networks, 2006, 17, 118-129.	4.8	215
255	A guaranteed forwarding service for Differentiated Service architecture. , 2006, , .		0
256	An Intelligent Fault Detection and Recovery Scheme for Reaction Wheel Actuator of Satellite Attitude Control Systems. , 2006, , .		6
257	A Guaranteed Forwarding Service for Differentiated Service Architecture. , 2006, , .		0
258	A Neural Network Controller for a Class of Nonlinear Non-Minimum Phase Systems with Application to a Flexible-Link Manipulator. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2005, 127, 289-294.	0.9	9
259	Control of a rigid manipulator mounted on a compliant base. Robotica, 2005, 23, 197-206.	1.3	5
260	Experimental Results on Stable Identification for Nonlinear Systems Using Neural Networks 1 1This research was supported in part by the Natural Science and Engineering Research Council (NSERC) of Canada grant RGPIN-1345.. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 453-458.	0.4	0
261	Implementation of a fuzzy Lyapunov-based control strategy for a macro-micro manipulator. , 2003, , .		1
262	Tracking control of a flexible-link manipulator using neural networks: experimental results. Robotica, 2002, 20, 417-427.	1.3	15
263	Neural network based dynamic modeling of flexible-link manipulators with application to the SSRMS. Journal of Field Robotics, 2000, 17, 385-401.	0.7	29
264	Neural network based control schemes for flexible-link manipulators: simulations and experiments. Neural Networks, 1998, 11, 1357-1377.	3.3	65
265	Inverse dynamics control of flexible-link manipulators using neural networks. , 0, , .		14
266	A stable neural network observer with application to flexible-joint manipulators. , 0, , .		20
267	State estimation for flexible-joint manipulators using stable neural networks. , 0, , .		2
268	Modeling of magnetic hysteresis using counter propagation neural network. , 0, , .		2
269	A neuro-fuzzy based sensor and actuator fault estimation scheme for unknown nonlinear systems. , 0, , .		0
270	Fault detection and isolation for unknown nonlinear systems using expert methods. , 0, , .		2

#	ARTICLE	IF	CITATIONS
271	Maneuver and formation control of a pair of soft pneumatic bending fingers by a cooperative strategy for planar in-hand object manipulation. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 0, , 095440892110732.	1.4	0
272	Output feedback controller design for discrete LTI systems with polytopic uncertainty via direct searching of the design space. Asian Journal of Control, 0, , .	1.9	1