

William MacKunis

List of Publications by Year in descending order

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62
papers

1,340
citations

687363

13
h-index

454955

30
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62
all docs

62
docs citations

62
times ranked

839
citing authors

#	ARTICLE	IF	CITATIONS
1	Asymptotic Tracking for Uncertain Dynamic Systems Via a Multilayer Neural Network Feedforward and RISE Feedback Control Structure. IEEE Transactions on Automatic Control, 2008, 53, 2180-2185.	5.7	215
2	Asymptotic Tracking for Systems With Structured and Unstructured Uncertainties. IEEE Transactions on Control Systems Technology, 2008, 16, 373-379.	5.2	164
3	Lyapunov-Based Exponential Tracking Control of a Hypersonic Aircraft with Aerothermoelastic Effects. Journal of Guidance, Control, and Dynamics, 2010, 33, 1213-1224.	2.8	136
4	Composite adaptive control for Euler-Lagrange systems with additive disturbances. Automatica, 2010, 46, 140-147.	5.0	97
5	Homography-Based Visual Servo Control With Imperfect Camera Calibration. IEEE Transactions on Automatic Control, 2009, 54, 1318-1324.	5.7	81
6	Modular Adaptive Control of Uncertain Euler-Lagrange Systems With Additive Disturbances. IEEE Transactions on Automatic Control, 2011, 56, 155-160.	5.7	74
7	Asymptotic Tracking for Aircraft via Robust and Adaptive Dynamic Inversion Methods. IEEE Transactions on Control Systems Technology, 2010, 18, 1448-1456.	5.2	52
8	Robust visual servo control in the presence of fruit motion for robotic citrus harvesting. Computers and Electronics in Agriculture, 2016, 123, 362-375.	7.7	51
9	Adaptive neural network-based satellite attitude control in the presence of CMG uncertainty. Aerospace Science and Technology, 2016, 54, 218-228.	4.8	45
10	Asymptotic Tracking for Systems with Structured and Unstructured Uncertainties. , 2006, , .		40
11	Adaptive satellite attitude control in the presence of inertia and CMG gimbal friction uncertainties. Journal of the Astronautical Sciences, 2008, 56, 121-134.	1.5	34
12	Robust attitude tracking control of a quadrotor helicopter in the presence of uncertainty. , 2012, , .		30
13	Robust nonlinear control of a hypersonic aircraft in the presence of aerothermoelastic effects. , 2009, , .		28
14	Robust nonlinear aircraft tracking control using synthetic jet actuators. , 2013, , .		19
15	Unified Tracking and Regulation Visual Servo Control for Wheeled Mobile Robots. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	18
16	Adaptive neural network satellite attitude control in the presence of inertia and CMG actuator uncertainties. , 2008, , .		18
17	Asymptotic Tracking for Uncertain Dynamic Systems via a Multilayer NN Feedforward and RISE Feedback Control Structure. Proceedings of the American Control Conference, 2007, , .	0.0	17
18	Nonlinear Robust Visual Servo Control for Robotic Citrus Harvesting. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 8110-8115.	0.4	14

#	ARTICLE	IF	CITATIONS
19	Asymptotic tracking for aircraft via an uncertain Dynamic Inversion method. , 2008, , .		13
20	Unified Tracking and Regulation Visual Servo Control for Wheeled Mobile Robots. Asian Journal of Control, 2014, 16, 669-678.	3.0	13
21	Nonlinear estimation of fluid flow velocity fields. , 2011, , .		12
22	Quaternion-based Robust Trajectory Tracking Control of a Quadrotor Hover System. International Journal of Control, Automation and Systems, 2018, 16, 2575-2584.	2.7	12
23	Observer-Based Sliding Mode Control of Rijke-Type Combustion Instability. Journal of Low Frequency Noise Vibration and Active Control, 2015, 34, 201-217.	2.9	11
24	High-Accuracy Simulations of Robust LCO Control Using Synthetic Jet Actuators. , 2015, , .		11
25	Euclidean Calculation of Feature Points of a Rotating Satellite: A Daisy-Chaining Approach. Journal of Guidance, Control, and Dynamics, 2008, 31, 954-961.	2.8	10
26	A robust nonlinear output feedback control method for limit cycle oscillation suppression using synthetic jet actuators. Aerospace Science and Technology, 2017, 64, 16-23.	4.8	10
27	Dynamic neural network-based sliding mode estimation of quadrotor systems. , 2017, , .		10
28	Robust Nonlinear Regulation of Limit Cycle Oscillations in UAVs Using Synthetic Jet Actuators. Robotics, 2014, 3, 330-348.	3.5	9
29	A closed-loop nonlinear control and sliding mode estimation strategy for fluid flow regulation. International Journal of Robust and Nonlinear Control, 2019, 29, 779-792.	3.7	7
30	Euclidean Calculation of Feature Points of a Rotating Satellite: A Daisy Chaining Approach. Proceedings of the American Control Conference, 2007, , .	0.0	6
31	Homography-based visual servo control via an uncalibrated camera. , 2008, , .		6
32	Precision IPACS in the presence of dynamic uncertainty. , 2009, , .		5
33	Observer-based sliding mode control of a 3-DOF hover system. , 2016, , .		5
34	Sliding mode estimation and closed-loop active flow control under actuator uncertainty. International Journal of Robust and Nonlinear Control, 2020, 30, 6645-6660.	3.7	5
35	A new class of modular adaptive controllers, Part II: Neural network extension for non-LP systems. , 2008, , .		4
36	Precision Integrated Power and Attitude Control System (IPACS) in the Presence of Dynamic Uncertainty. Journal of the Astronautical Sciences, 2011, 58, 99-120.	1.5	4

#	ARTICLE	IF	CITATIONS
37	Adaptive Vision-based Missile Guidance in the Presence of Evasive Target Maneuvers. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 5471-5476.	0.4	4
38	A Sliding Mode LCO Regulation Strategy for Dual-Parallel Underactuated UAV Systems Using Synthetic Jet Actuators. International Journal of Aerospace Engineering, 2015, 2015, 1-7.	0.9	4
39	Sliding mode control of Rijke-type thermoacoustic systems. , 2015, , .		4
40	Robust nonlinear estimation and control of fluid flow velocity fields. , 2016, , .		4
41	Passivity-based quaternion feedback control of a hover system. , 2016, , .		4
42	A new class of modular adaptive controllers, Part I: Systems with linear-in-the-parameters uncertainty. , 2008, , .		3
43	Stabilizing a nonlinear model-based networked control system with communication constraints. , 2013, , .		3
44	Sliding mode control-based limit cycle oscillation suppression for UAVs using synthetic jet actuators. , 2015, , .		3
45	A sliding mode estimation method for fluid flow fields using a differential inclusions-based analysis. International Journal of Control, 2020, , 1-10.	1.9	3
46	Nonlinear control of thermoacoustic oscillations in Rijke-type systems. , 2016, , .		2
47	Robust and adaptive nonlinear regulation of thermoacoustic oscillations in Rijke-type systems. , 2016, , .		2
48	A dynamic neural network-based sliding mode observer method for a class of uncertain dynamic systems. , 2017, , .		2
49	Active flow control under actuator uncertainty using a sliding mode estimation strategy. , 2017, , .		2
50	Robust quaternion-based nonlinear output feedback control of a quadrotor hover system. , 2017, , .		2
51	Finite-Time State Estimation for an Inverted Pendulum under Input-Multiplicative Uncertainty. Robotics, 2020, 9, 87.	3.5	2
52	Asymptotic Tracking for an Osprey Fixed-Wing Aircraft via Nonlinear Generalized Minimum Variance Control. Journal of Aerospace Engineering, 2020, 33, 04020010.	1.4	2
53	Composite adaptive control for systems with additive disturbances. , 2009, , .		1
54	Global adaptive output feedback MRAC. , 2009, , .		1

#	ARTICLE	IF	CITATIONS
55	Stabilization of an underactuated parallel system with a single input. , 2015, , .		1
56	A new method of synthetic jet actuator-based LCO suppression using an output feedback control strategy. , 2015, , .		1
57	Synthetic Jet Actuator-Based Aircraft Tracking Using a Continuous Robust Nonlinear Control Strategy. International Journal of Aerospace Engineering, 2017, 2017, 1-13.	0.9	1
58	A Nonlinear Output Feedback Regulation Method for Limit Cycle Oscillation Suppression Using a Sliding Mode Observer. , 2018, , .		1
59	Robust Nonlinear Tracking Control for Unmanned Aircraft in the Presence of Wake Vortex. Electronics (Switzerland), 2021, 10, 1890.	3.1	1
60	Reduced-order Dynamic Modeling and Robust Nonlinear Control of Fluid Flow Velocity Fields. , 2021, , .		1
61	Context-Aware Communication to Stabilize Bandwidth-Limited Nonlinear Networked Control Systems. , 2015, , .		0
62	Towards Robust Nonlinear Closed-Loop Transition Control Using Local Dynamic Surface Modification. , 2022, , .		0