

Ayman A El-Badawy

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

450
citations

687363

13
h-index

794594

19
g-index

42
all docs

42
docs citations

42
times ranked

409
citing authors

#	ARTICLE	IF	CITATIONS
1	Active anti-disturbance control of a quadrotor unmanned aerial vehicle using the command-filtering backstepping approach. <i>Nonlinear Dynamics</i> , 2017, 90, 581-597.	5.2	58
2	Sliding mode disturbance observer-based control of a twin rotor MIMO system. <i>ISA Transactions</i> , 2017, 69, 166-174.	5.7	36
3	A novel disturbance observer-based backstepping controller with command filtered compensation for a MIMO system. <i>Journal of the Franklin Institute</i> , 2016, 353, 4039-4061.	3.4	35
4	Disturbance observer-based feedback linearization control of an unmanned quadrotor helicopter. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2016, 230, 877-891.	1.0	32
5	Composite Hierarchical Anti-Disturbance Control of a Quadrotor UAV in the Presence of Matched and Mismatched Disturbances. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2018, 90, 201-216.	3.4	28
6	Behavioral Investigation of a Nonlinear Nonideal Vibrating System. <i>JVC/Journal of Vibration and Control</i> , 2007, 13, 203-217.	2.6	22
7	Effect of the joint inertia on selection of under-actuated control algorithm for flexible-link manipulators. <i>Mechanism and Machine Theory</i> , 2010, 45, 967-980.	4.5	21
8	Control of a directly excited structural dynamic model of an F-15 tail section. <i>Journal of the Franklin Institute</i> , 2001, 338, 133-147.	3.4	18
9	Robust integral sliding mode control of tower cranes. <i>JVC/Journal of Vibration and Control</i> , 2021, 27, 1171-1183.	2.6	18
10	Lyapunov-based control and trajectory tracking of a 6-DOF flapping wing micro aerial vehicle. <i>Nonlinear Dynamics</i> , 2020, 99, 2919-2938.	5.2	17
11	Nonlinear modeling and control of flexible-link manipulators subjected to parametric excitation. <i>Nonlinear Dynamics</i> , 2010, 62, 769-779.	5.2	16
12	Quadcopter Aggressive Maneuvers along Singular Configurations: An Energy-Quaternion Based Approach. <i>Journal of Control Science and Engineering</i> , 2016, 2016, 1-10.	1.0	16
13	Backstepping trajectory tracking control of a quadrotor with disturbance rejection. , 2015, , .		14
14	Command-Filtered Integral Backstepping Control of Longitudinal Flapping-Wing Flight. <i>Journal of Guidance, Control, and Dynamics</i> , 2018, 41, 1556-1568.	2.8	13
15	Quadratic Nonlinear Control of a Self-excited Oscillator. <i>JVC/Journal of Vibration and Control</i> , 2007, 13, 403-414.	2.6	12
16	Quadrotor Trajectory Tracking Control using Non-Linear Model Predictive Control with ROS Implementation. , 2019, , .		12
17	Time domain disturbance observer based control of a quadrotor unmanned aerial vehicle. , 2015, , .		10
18	Nonlinear model predictive pitch control of aero-elastic wind turbine blades. <i>Renewable Energy</i> , 2020, 161, 777-791.	8.9	10

#	ARTICLE	IF	CITATIONS
19	Neural Network Identification and Control of a Parametrically Excited Structural Dynamic Model of an F-15 Tail Section. <i>Shock and Vibration</i> , 2000, 7, 355-361.	0.6	8
20	Manufacturing Automotive Components from Sustainable Natural Fiber Composites. <i>SpringerBriefs in Materials</i> , 2021, , .	0.3	8
21	Nonlinear disturbance observer-based control of a structural dynamic model of a twin-tailed fighter aircraft. <i>Nonlinear Dynamics</i> , 2022, 108, 315-328.	5.2	6
22	Use of inverse dynamics for trajectory tracking of flexible-link manipulator with account of link shortening effect. <i>JVC/Journal of Vibration and Control</i> , 2011, 17, 481-491.	2.6	5
23	Robust H-infinity Control for a Quadrotor UAV. , 2022, , .		4
24	Robust H-infinity Control for a Bi-rotor System. , 2020, , .		3
25	Fuzzy Model Predictive Control of a Quadrotor Unmanned Aerial Vehicle. , 2020, , .		3
26	Robust H-infinity Controller for a Single-axis Spacecraft Rotation. , 2020, , .		3
27	Natural Fiber Composite Qualification in the Automotive Industry. <i>SpringerBriefs in Materials</i> , 2021, , 53-65.	0.3	3
28	<title>Control of a directly excited structural dynamic model of an F-15 tail section using positive position feedback</title>. , 2000, 3984, 216.		2
29	Effect of mass and shear center offset on the dynamic response of a rotating blade. <i>JVC/Journal of Vibration and Control</i> , 2017, 23, 2235-2255.	2.6	2
30	Sliding mode control of directly excited structural dynamic model of twin-tailed fighter aircraft. <i>Journal of the Franklin Institute</i> , 2021, 358, 9721-9740.	3.4	2
31	Two-DoF Controller Design for a six-DoF Flapping Wing Micro Aerial Vehicle. , 2020, , .		2
32	A Study on The Behaviour and Characteristics of A Quartz Tuning Fork Using Finite Element Method. , 2020, , .		1
33	Sustainability Assessment and Recycling of Natural Fiber Composites. <i>SpringerBriefs in Materials</i> , 2021, , 67-75.	0.3	1
34	Natural Fiber Composite Fabrication for the Automotive Industry. <i>SpringerBriefs in Materials</i> , 2021, , 23-52.	0.3	1
35	Novel Omnimagnet actuation method for a Cubesat nano-satellite. <i>Aerospace Science and Technology</i> , 2021, 117, 106913.	4.8	1
36	Future Trends in Natural Fiber Composites in the Automotive Industry. <i>SpringerBriefs in Materials</i> , 2021, , 77-83.	0.3	1

#	ARTICLE	IF	CITATIONS
37	Design and Development of a Self-Powered Wireless Wearable Activity Tracker. , 2018, , .		0
38	Command-Filtered Backstepping Control of Multitank System. , 2019, , .		0
39	An Indoor Vision-Based Markov Localization Technique of a Quadrotor. , 2019, , .		0
40	Natural Fiber Reinforcement Preparation. SpringerBriefs in Materials, 2021, , 11-22.	0.3	0