

Ayman A El-Badawy

List of Publications by Year in descending order

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40
papers

450
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687363

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g-index

42
all docs

42
docs citations

42
times ranked

409
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust H-infinity Control for a Quadrotor UAV. , 2022, , .		4
2	Nonlinear disturbance observer-based control of a structural dynamic model of a twin-tailed fighter aircraft. Nonlinear Dynamics, 2022, 108, 315-328.	5.2	6
3	Robust integral sliding mode control of tower cranes. JVC/Journal of Vibration and Control, 2021, 27, 1171-1183.	2.6	18
4	Manufacturing Automotive Components from Sustainable Natural Fiber Composites. SpringerBriefs in Materials, 2021, , .	0.3	8
5	Natural Fiber Reinforcement Preparation. SpringerBriefs in Materials, 2021, , 11-22.	0.3	0
6	Sustainability Assessment and Recycling of Natural Fiber Composites. SpringerBriefs in Materials, 2021, , 67-75.	0.3	1
7	Natural Fiber Composite Fabrication for the Automotive Industry. SpringerBriefs in Materials, 2021, , 23-52.	0.3	1
8	Novel Omnimagnet actuation method for a Cubesat nano-satellite. Aerospace Science and Technology, 2021, 117, 106913.	4.8	1
9	Natural Fiber Composite Qualification in the Automotive Industry. SpringerBriefs in Materials, 2021, , 53-65.	0.3	3
10	Future Trends in Natural Fiber Composites in the Automotive Industry. SpringerBriefs in Materials, 2021, , 77-83.	0.3	1
11	Sliding mode control of directly excited structural dynamic model of twin-tailed fighter aircraft. Journal of the Franklin Institute, 2021, 358, 9721-9740.	3.4	2
12	Robust H-infinity Control for a Bi-rotor System. , 2020, , .		3
13	Fuzzy Model Predictive Control of a Quadrotor Unmanned Aerial Vehicle. , 2020, , .		3
14	Nonlinear model predictive pitch control of aero-elastic wind turbine blades. Renewable Energy, 2020, 161, 777-791.	8.9	10
15	A Study on The Behaviour and Characteristics of A Quartz Tuning Fork Using Finite Element Method. , 2020, , .		1
16	Robust H-infinity Controller for a Single-axis Spacecraft Rotation. , 2020, , .		3
17	Lyapunov-based control and trajectory tracking of a 6-DOF flapping wing micro aerial vehicle. Nonlinear Dynamics, 2020, 99, 2919-2938.	5.2	17
18	Two-DoF Controller Design for a six-DoF Flapping Wing Micro Aerial Vehicle. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
19	Command-Filtered Backstepping Control of Multitank System. , 2019, , .		0
20	Quadrotor Trajectory Tracking Control using Non-Linear Model Predictive Control with ROS Implementation. , 2019, , .		12
21	An Indoor Vision-Based Markov Localization Technique of a Quadrotor. , 2019, , .		0
22	Command-Filtered Integral Backstepping Control of Longitudinal Flapping-Wing Flight. Journal of Guidance, Control, and Dynamics, 2018, 41, 1556-1568.	2.8	13
23	Composite Hierarchical Anti-Disturbance Control of a Quadrotor UAV in the Presence of Matched and Mismatched Disturbances. Journal of Intelligent and Robotic Systems: Theory and Applications, 2018, 90, 201-216.	3.4	28
24	Design and Development of a Self-Powered Wireless Wearable Activity Tracker. , 2018, , .		0
25	Effect of mass and shear center offset on the dynamic response of a rotating blade. JVC/Journal of Vibration and Control, 2017, 23, 2235-2255.	2.6	2
26	Sliding mode disturbance observer-based control of a twin rotor MIMO system. ISA Transactions, 2017, 69, 166-174.	5.7	36
27	Active anti-disturbance control of a quadrotor unmanned aerial vehicle using the command-filtering backstepping approach. Nonlinear Dynamics, 2017, 90, 581-597.	5.2	58
28	Quadcopter Aggressive Maneuvers along Singular Configurations: An Energy-Quaternion Based Approach. Journal of Control Science and Engineering, 2016, 2016, 1-10.	1.0	16
29	A novel disturbance observer-based backstepping controller with command filtered compensation for a MIMO system. Journal of the Franklin Institute, 2016, 353, 4039-4061.	3.4	35
30	Disturbance observer-based feedback linearization control of an unmanned quadrotor helicopter. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2016, 230, 877-891.	1.0	32
31	Time domain disturbance observer based control of a quadrotor unmanned aerial vehicle. , 2015, , .		10
32	Backstepping trajectory tracking control of a quadrotor with disturbance rejection. , 2015, , .		14
33	Use of inverse dynamics for trajectory tracking of flexible-link manipulator with account of link shortening effect. JVC/Journal of Vibration and Control, 2011, 17, 481-491.	2.6	5
34	Nonlinear modeling and control of flexible-link manipulators subjected to parametric excitation. Nonlinear Dynamics, 2010, 62, 769-779.	5.2	16
35	Effect of the joint inertia on selection of under-actuated control algorithm for flexible-link manipulators. Mechanism and Machine Theory, 2010, 45, 967-980.	4.5	21
36	Quadratic Nonlinear Control of a Self-excited Oscillator. JVC/Journal of Vibration and Control, 2007, 13, 403-414.	2.6	12

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37	Behavioral Investigation of a Nonlinear Nonideal Vibrating System. JVC/Journal of Vibration and Control, 2007, 13, 203-217.	2.6	22
38	Control of a directly excited structural dynamic model of an F-15 tail section. Journal of the Franklin Institute, 2001, 338, 133-147.	3.4	18
39	<title>Control of a directly excited structural dynamic model of an F-15 tail section using positive position feedback</title>. , 2000, 3984, 216.		2
40	Neural Network Identification and Control of a Parametrically Excited Structural Dynamic Model of an F-15 Tail Section. Shock and Vibration, 2000, 7, 355-361.	0.6	8