

Anand Sanchez-Orta

List of Publications by Year in descending order

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71
papers

1,049
citations

471477

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501174

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71
all docs

71
docs citations

71
times ranked

870
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust Backstepping Control Based on Integral Sliding Modes for Tracking of Quadrotors. Journal of Intelligent and Robotic Systems: Theory and Applications, 2014, 73, 51-66.	3.4	120
2	Stabilization and Trajectory Tracking of a Quad-Rotor Using Vision. Journal of Intelligent and Robotic Systems: Theory and Applications, 2011, 61, 103-118.	3.4	72
3	Attitude control of quadrotors based on fractional sliding modes: theory and experiments. IET Control Theory and Applications, 2016, 10, 825-832.	2.1	58
4	Fractional-Order Control for Robust Position/Yaw Tracking of Quadrotors With Experiments. IEEE Transactions on Control Systems Technology, 2019, 27, 1645-1650.	5.2	41
5	Toward Aerial Grasping and Manipulation with Multiple UAVs. Journal of Intelligent and Robotic Systems: Theory and Applications, 2013, 70, 575-593.	3.4	40
6	Stabilization of n integrators in cascade with bounded input with experimental application to a VTOL laboratory system. International Journal of Robust and Nonlinear Control, 2010, 20, 1129-1139.	3.7	37
7	Triple tilting rotor mini-UAV: Modeling and embedded control of the attitude. , 2008, , .		35
8	Robustness margin for attitude control of a four rotor mini-robotcraft: Case of study. Mechatronics, 2010, 20, 143-152.	3.3	34
9	Hovering Flight Improvement of a Quad-rotor Mini UAV Using Brushless DC Motors. Journal of Intelligent and Robotic Systems: Theory and Applications, 2011, 61, 85-101.	3.4	31
10	Fractional attitude-reactive control for robust quadrotor position stabilization without resolving underactuation. Control Engineering Practice, 2016, 53, 47-56.	5.5	28
11	A Fractional Nonlinear PI-Structure Control for Robust Attitude Tracking of Quadrotors. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 2911-2920.	4.7	28
12	Fractional sliding mode control of underwater ROVs subject to non-differentiable disturbances. International Journal of Control, Automation and Systems, 2017, 15, 1314-1321.	2.7	27
13	Position and Yaw Tracking of Quadrotors. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	1.6	26
14	A new UAV configuration having eight rotors: Dynamical model and real-time control. , 2007, , .		25
15	Uniformly continuous differintegral sliding mode control of nonlinear systems subject to Hölder disturbances. Automatica, 2016, 66, 179-184.	5.0	25
16	Real-time embedded control system for VTOL aircrafts: Application to stabilize a quad-rotor helicopter. , 2006, , .		24
17	Simple Real-Time Stabilization of Vertical Takeoff and Landing Aircraft with Bounded Signals. Journal of Guidance, Control, and Dynamics, 2008, 31, 1166-1176.	2.8	24
18	Continuous Fractional-Order Sliding PI Control for Nonlinear Systems Subject to Non-Differentiable Disturbances. Asian Journal of Control, 2017, 19, 279-288.	3.0	22

#	ARTICLE	IF	CITATIONS
19	A novel continuous fractional sliding mode control. International Journal of Systems Science, 2017, 48, 2901-2908.	5.5	19
20	Modeling and Global Control of the Longitudinal Dynamics of a Coaxial Convertible Mini-UAV in Hover Mode. Journal of Intelligent and Robotic Systems: Theory and Applications, 2009, 54, 261-273.	3.4	18
21	Fractional integral sliding modes for robust tracking of nonlinear systems. Nonlinear Dynamics, 2017, 87, 895-901.	5.2	16
22	Contact force tracking of quadrotors based on robust attitude control. Control Engineering Practice, 2018, 78, 89-96.	5.5	15
23	Non-smooth convex Lyapunov functions for stability analysis of fractional-order systems. Transactions of the Institute of Measurement and Control, 2019, 41, 1627-1639.	1.7	14
24	A fractional super-twisting control of electrically driven mechanical systems. Transactions of the Institute of Measurement and Control, 2020, 42, 485-492.	1.7	14
25	Robust Mittag-Leffler stabilisation of fractional-order systems. Asian Journal of Control, 2020, 22, 2273-2281.	3.0	14
26	Hovering quad-rotor control: A comparison of nonlinear controllers using visual feedback. , 2010, , .		13
27	Finite-time disturbance observer via continuous fractional sliding modes. Transactions of the Institute of Measurement and Control, 2018, 40, 3953-3963.	1.7	13
28	Quadratic Lyapunov functions for stability analysis in fractional-order systems with not necessarily differentiable solutions. Systems and Control Letters, 2018, 116, 15-19.	2.3	12
29	Nonlinear ellipsoid based attitude control for aggressive trajectories in a quadrotor: Closed-loop multi-flips implementation. Control Engineering Practice, 2018, 77, 150-161.	5.5	12
30	Adaptive robust control of fractional-order systems with matched and mismatched disturbances. Mathematics and Computers in Simulation, 2019, 162, 85-96.	4.4	12
31	Discrete-time stabilization of integrators in cascade: real-time stabilization of a mini-rotorcraft. International Journal of Control, 2008, 81, 894-904.	1.9	11
32	A general result on non-existence of finite-time stable equilibria in fractional-order systems. Journal of the Franklin Institute, 2019, 356, 268-275.	3.4	11
33	Optical flow-based controller for reactive and relative navigation dedicated to a four rotor rotorcraft. , 2009, , .		10
34	Attitude tracking control of a quadrotor based on absolutely continuous fractional integral sliding modes. , 2014, , .		10
35	Robust Geometric Navigation of a Quadrotor UAV on SE(3). Robotica, 2020, 38, 1019-1040.	1.9	9
36	Continuous fractional sliding mode-like control for exact rejection of non-differentiable Hölder disturbances. IMA Journal of Mathematical Control and Information, 0, , dnv064.	1.7	8

#	ARTICLE	IF	CITATIONS
37	Robust control of wind turbines based on fractional nonlinear disturbance observer. Asian Journal of Control, 2020, 22, 1801-1810.	3.0	8
38	High-gain fractional disturbance observer control of uncertain dynamical systems. Journal of the Franklin Institute, 2021, 358, 4793-4806.	3.4	8
39	Free-model fractional-order absolutely continuous sliding mode control for euler-lagrange systems. , 2014, , .		7
40	A Passive Velocity Field Control for Navigation of Quadrotors with Model-free Integral Sliding Modes. Journal of Intelligent and Robotic Systems: Theory and Applications, 2014, 73, 373-385.	3.4	7
41	A novel PID control with fractional nonlinear integral. Nonlinear Dynamics, 2018, 94, 3041-3052.	5.2	7
42	Discrete-time nonlinear control scheme for small synchronous generator. International Journal of Electrical Power and Energy Systems, 2002, 24, 751-764.	5.5	6
43	On the Brain Computer Robot Interface (BCRI) to Control Robots. IFAC-PapersOnLine, 2015, 48, 154-159.	0.9	6
44	A Challenge-Based Learning Intensive Course for Competency Development in Undergraduate Engineering Students: Case Study on UAVs. Electronics (Switzerland), 2022, 11, 1349.	3.1	6
45	Toward force control of a quadrotor UAV in SE(3). , 2012, , .		5
46	Integral sliding mode backstepping control of quadrotors for robust position tracking. , 2013, , .		5
47	Modeling and simulation of a propeller-engine system for Unmanned Aerial Vehicles. , 2013, , .		5
48	Control of Constrained Robot Manipulators based on Fractional Order Error Manifolds. IFAC-PapersOnLine, 2015, 48, 118-123.	0.9	5
49	Dynamic response of BLDC-thruster for small scale Quadrotors under aerodynamic load torque. , 2014, , .		4
50	Output Feedback Finite-Time Stabilization of Systems Subject to Hölder Disturbances via Continuous Fractional Sliding Modes. Mathematical Problems in Engineering, 2017, 2017, 1-8.	1.1	4
51	A novel force-velocity field for object manipulation with a model-free cooperative controller. Transactions of the Institute of Measurement and Control, 2019, 41, 573-581.	1.7	4
52	Robust contour tracking of nonholonomic mobile robots via adaptive velocity field motion planning scheme. International Journal of Adaptive Control and Signal Processing, 2019, 33, 890-899.	4.1	4
53	Nonlinear Estimation of the PVTOL Aircraft Attitude. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 527-532.	0.4	3
54	Position Tracking With Time-Varying Desired Yaw of Quadrotors: Basics and Applications in SE(3). , 2012, , .		3

#	ARTICLE	IF	CITATIONS
55	Adaptive backstepping control for a convertible UAV. , 2015, , .		3
56	Robust global observer position-yaw control based on ellipsoid method for quadrotors. Mechanical Systems and Signal Processing, 2021, 158, 107721.	8.0	3
57	Design and implementation of an embedded control system for small Unmanned Aerial Vehicles: Application to a four-rotor mini rotorcraft. , 2009, , .		2
58	Passive Velocity Field Control for contour tracking of robots with model-free controller. , 2013, , .		2
59	Generalized order integral sliding mode control for non-differentiable disturbance rejection: A comparative study. , 2015, , .		2
60	Fractional-Order Nonlinear Disturbance Observer Based Control of Fractional-Order Systems. Journal of Computational and Nonlinear Dynamics, 2018, 13, .	1.2	2
61	Fractional PD- $\frac{1}{4}$ Error Manifolds for Robust Tracking Control of Robotic Manipulators. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, .	1.6	2
62	Adaptive Fuzzy Velocity Field Control for Navigation of Nonholonomic Mobile Robots. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 101, 1.	3.4	2
63	Application and Design of Real-Time Control System for the Quad-rotor Helicopter. , 2009, , .		1
64	Aerodynamic analysis and performance of a mini airplane UAV. , 2015, , .		1
65	EEG-motor sequencing signals for online command of dynamic robots. , 2015, , .		1
66	Fractional Sliding Mode Control of Wind Turbines. , 2019, , .		1
67	Aerial Following of a Non-holonomic Mobile Robot subject to Velocity Fields: A Case Study for Autonomous Vehicles Surveillance. , 2020, , .		1
68	POSITION ESTIMATION IMPROVEMENT USING AN OBSERVER BASED ON ATTRACTIVE ELLIPSOID METHOD FOR A QUADROTOR. International Journal of Robotics and Automation, 2017, 32, .	0.1	1
69	Modelling and real-time control stabilization of a new VTOL aircraft with eight rotors. , 2007, , .		0
70	A passive velocity field for navigation of quadrotors with model-free integral sliding mode control. , 2013, , .		0
71	An Exact Robust Differentiator Based on Continuous Fractional Sliding Modes. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2018, 140, .	1.6	0