

CoÅku KasnakoÄlu

List of Publications by Year in descending order

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papers

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89
all docs

89
docs citations

89
times ranked

370
citing authors

#	ARTICLE	IF	CITATIONS
1	Face Detection and Facial Feature Extraction with Machine Learning. Lecture Notes in Networks and Systems, 2022, , 205-213.	0.7	1
2	On the existence of Equivalent-Input-Disturbance and multiple integral augmentation via H-Infinity Synthesis for unmatched systems. ISA Transactions, 2022, 131, 299-310.	5.7	3
3	LQR Control and Observer Design of a Magnetically Suspended Ball. , 2022, , .		0
4	GLSDC Based Parameter Estimation Algorithm for a PMSM Model. Energies, 2021, 14, 611.	3.1	4
5	Painter Prediction from Artworks with Transfer Learning. , 2021, , .		1
6	A nonlinear disturbance observer scheme for discrete time control systems. Turkish Journal of Electrical Engineering and Computer Sciences, 2021, 29, 1044-1060.	1.4	1
7	Average and Peak Current Mode Control Comparison for Full-Bridge Converter. , 2021, , .		4
8	Fuzzy Logic Controlled Active Hydro-Pneumatic Suspension Design Simulation and Comparison for Performance Analysis. , 2021, , .		0
9	An enhanced bandwidth disturbance observer based controlâ€™ S-filter approach. Turkish Journal of Electrical Engineering and Computer Sciences, 2021, 29, 2170-2185.	1.4	2
10	Feedback controlled resource management model for express service in electric vehicle charging stations. Journal of Cleaner Production, 2021, 311, 127629.	9.3	11
11	Comparative Study of an EKF-Based Parameter Estimation and a Nonlinear Optimization-Based Estimation on PMSM System Identification. Energies, 2021, 14, 6108.	3.1	3
12	Nonlinear Modeling and Robust Control of a Quadrotor UAV under Uncertain Parameters and White Gaussian Noise. , 2021, , .		5
13	Path Planning and Collision Avoidance with Artificial Intelligence for a Quadrotor UAV. , 2021, , .		4
14	Control of a small helicopter with linear matrix inequality-based design assuring stability and performance. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2020, 234, 624-639.	1.3	2
15	Design of output feedback sliding mode controller for SEPIC converter for robustness. International Journal of Electronics, 2020, 107, 239-249.	1.4	6
16	A Comparison of \hat{a} , \hat{a} ž-Synthesis and Feedback Linearization for Rotary Inverted Pendulum. , 2020, , .		0
17	LQI Control Design with LQG Regulator via UKF for a Fixed-Wing Aircraft. , 2020, , .		1
18	Design of extended Kalman filter for SEPIC converter and comparison to Kalman filter. SN Applied Sciences, 2020, 2, 1.	2.9	2

#	ARTICLE	IF	CITATIONS
19	Newton-Raphson Methods in Aircraft Trim: A Comparative Study. , 2020, , .		10
20	Autonomous Face Detection and Tracking Using Quadrotor UAV. , 2020, , .		5
21	Robust Autopilot Design Based on a Disturbance/Uncertainty/Coupling Estimator. IEEE Transactions on Control Systems Technology, 2019, 27, 2622-2629.	5.2	12
22	Design of a 4D Trajectory Tracking Controller with Anti-Windup Protection for Fixed-Wing Aircraft. , 2019, , .		0
23	Autonomous Navigation of an Aircraft Using a NARX Recurrent Neural Network. , 2019, , .		6
24	Vector Control of PMSM in Circulation Pump Application and an Adaptive Approach for EEI Optimization. , 2019, , .		1
25	Output Feedback Sliding Mode Control of a Fixed-Wing UAV Under Rudder Loss. , 2019, , .		4
26	Modeling and Simulation of Quadrotor UAV Using PID Controller. , 2019, , .		11
27	Aileron Locking Fault Detection Based on Extended Kalman Filter for UAV. , 2019, , .		0
28	Disturbance/Uncertainty Estimator Based Integral Sliding-Mode Control. IEEE Transactions on Automatic Control, 2018, 63, 3940-3947.	5.7	41
29	Heading Hold Autopilot Design for Fixed Wing Aircraft. , 2018, , .		0
30	Robust Temperature Control of a Thermoelectric Cooler via μ -Synthesis. Journal of Electronic Materials, 2018, 47, 4421-4429.	2.2	5
31	Adaptive Model Predictive Control of a Two-wheeled Robot Manipulator with Varying Mass. Measurement and Control, 2018, 51, 38-56.	1.8	20
32	Scheduled smooth MIMO robust control of aircraft verified through blade element SIL testing. Transactions of the Institute of Measurement and Control, 2018, 40, 528-541.	1.7	6
33	A stability-guaranteed smooth-scheduled MIMO robust emergency autopilot for a lateral surface jammed UAV. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2018, 232, 2286-2299.	1.3	0
34	Output Feedback Discrete SMC Design For Quadratic Buck DC-DC Converter. , 2018, , .		1
35	Stabilizer Autopilot Design For Fixed Wing UAV Using ODSMC. , 2018, , .		2
36	Disturbance/Uncertainty Estimator Based Robust Control of Nonminimum Phase Systems. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1941-1951.	5.8	16

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37	MIMO nonlinear modeling and robust control of standalone dc photovoltaic systems. International Journal of Hydrogen Energy, 2017, 42, 18064-18080.	7.1	9
38	Reduced CORDIC based logarithmic convertor. , 2017, , .		3
39	Comparative analysis of performance of the SEPIC converter using LQR and PID controllers. , 2017, , .		7
40	Comparing and Developing PID and Sliding Mode Controllers for Quadrotor. International Journal of Mechanical Engineering and Robotics Research, 2017, , 194-199.	1.0	17
41	Nonlinear modelling and control of the flow over aerofoils using CFD simulations. Simulation Modelling Practice and Theory, 2016, 67, 29-43.	3.8	9
42	Altitude Control for Small Fixed-Wing Aircraft Using H [∞] Loop-Shaping Method. IFAC-PapersOnLine, 2016, 49, 111-116.	0.9	14
43	Control Loss Recovery Autopilot Design for Fixed-Wing Aircraft. IFAC-PapersOnLine, 2016, 49, 117-123.	0.9	9
44	Performance improvement of a photovoltaic system using a controller redesign based on numerical modeling. International Journal of Hydrogen Energy, 2016, 41, 12634-12649.	7.1	27
45	Investigation of Multi-Input Multi-Output Robust Control Methods to Handle Parametric Uncertainties in Autopilot Design. PLoS ONE, 2016, 11, e0165017.	2.5	10
46	Design of a Flight Stabilizer System and Automatic Control Using HIL Test Platform. International Journal of Mechanical Engineering and Robotics Research, 2016, , .	1.0	4
47	An Affine Parameter Dependent Controller for an Autonomous Helicopter at Different Flight Conditions. IFAC-PapersOnLine, 2015, 48, 174-179.	0.9	4
48	LQG/LTR position control of an BLDC motor with experimental validation. , 2015, , .		4
49	Design of a flight stabilizer for fixed-wing aircrafts using H [∞] loop shaping method. , 2015, , .		6
50	Simulation time analysis of MATLAB/Simulink and LabVIEW for control applications. , 2015, , .		3
51	Control of a Photovoltaic System Operating at Maximum Power Point and Constant Output Voltage under Different Atmospheric Conditions. International Journal of Computer and Electrical Engineering, 2015, 7, 240-247.	0.2	7
52	Dynamical modelling of the flow over a flapping wing using proper orthogonal decomposition and system identification techniques. Mathematical and Computer Modelling of Dynamical Systems, 2013, 19, 133-158.	2.2	4
53	Pipelining Harris corner detection with a tiny FPGA for a mobile robot. , 2013, , .		18
54	Improving quadrotor 3-axes stabilization results using empirical results and system identification. , 2013, , .		1

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55	Design of a Flight Stabilizer System for a Small Fixed Wing Unmanned Aerial Vehicle using System Identification. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 145-149.	0.4	12
56	Active Queue Management of TCP Flows with Self-scheduled Linear Parameter Varying Controllers. International Journal of Computers, Communications and Control, 2013, 8, 838.	1.8	2
57	Hardware-in-the-Loop Test Platform for a Small Fixed Wing Unmanned Aerial Vehicle Embedded Controller. , 2013, , .		4
58	Design of a Quadrotor Roll Controller Using System Identification to Improve Empirical Results. International Journal of Materials Mechanics and Manufacturing, 2013, , 347-349.	0.2	4
59	Designing a Feedback Vorticity Control System for the Flow Past a Circular Cylinder. , 2013, , .		0
60	A Nonlinear Dynamical Modeling and Control Method for the Vorticity Control of the Flow past a Circular Cylinder. International Journal of Materials Mechanics and Manufacturing, 2013, , 324-346.	0.2	1
61	Quadrotor Roll and Pitch Stabilization using System Identification based Redesign of Empirical Controllers. , 2013, , .		0
62	Regional dynamical modeling and control of flow problems under unmeasurable and non-constant viscosity. Transactions of the Institute of Measurement and Control, 2012, 34, 966-973.	1.7	0
63	A parametric study on coal gasification for the production of syngas. Chemical Papers, 2012, 66, .	2.2	7
64	Dynamical modeling of the unsteady flow over a flapping wing by applying proper orthogonal decomposition and system identification to particle image velocimetry data. , 2011, , .		1
65	Automatic Recovery and Autonomous Navigation of Disabled Aircraft After Control Surface Actuator Jam. , 2010, , .		5
66	Analysis of Flow Over a Circular Cylinder by CFD and Reduced Order Modeling. , 2010, , .		3
67	Control of nonlinear systems represented by Galerkin models using adaptation-based linear parameter-varying models. International Journal of Control, Automation and Systems, 2010, 8, 748-761.	2.7	4
68	Control of Oscillations in Flow Problems Under Frequency Limitations. JVC/Journal of Vibration and Control, 2010, 16, 1941-1966.	2.6	3
69	Modelling flow control problems under diverse operating conditions by identification and blending of multiple systems. Transactions of the Institute of Measurement and Control, 2010, 32, 419-439.	1.7	1
70	Constructing linear parameter varying models through adaptation for the control of a class of nonlinear systems. , 2009, , .		0
71	Frequency constrained control of oscillations in flow problems. , 2009, , .		0
72	Reduced-Order Model-Based Feedback Control of Flow Over an Obstacle Using Center Manifold Methods. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2009, 131, .	1.6	14

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73	Feedback flow control employing local dynamical modelling with wavelets. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , 2009, 15, 493-513.	2.2	3
74	Extremum-Seeking Control of Subsonic Cavity Flow. <i>AIAA Journal</i> , 2009, 47, 195-205.	2.6	34
75	Obtaining regional dynamical models for flow control using wavelet transform. , 2009, , .		0
76	Modeling, control and evaluation of fluid flow systems using adaptation based linear parameter varying models. , 2009, , .		0
77	Extremum-Seeking Control of Subsonic Cavity Flow. , 2008, , .		1
78	A comparison of architectural varieties in Radial Basis Function Neural Networks. , 2008, , .		0
79	Prediction of dynamical properties of flow over a three-element airfoil via computationally intelligent architectures. , 2008, , .		1
80	Control Input Separation Methods for Reduced-Order Model-Based Feedback Flow Control. <i>AIAA Journal</i> , 2008, 46, 2306-2322.	2.6	19
81	Control input separation methods applied to cavity flow. , 2008, , .		2
82	Control input separation by actuation mode expansion for flow control problems. <i>International Journal of Control</i> , 2008, 81, 1475-1492.	1.9	35
83	Analysis and Nonlinear Control of Galerkin Models Using Averaging and Center Manifold Theory. <i>Proceedings of the American Control Conference</i> , 2007, , .	0.0	0
84	Modeling and Control of a Robot Arm on a Two Wheeled Moving Platform. <i>Applied Mechanics and Materials</i> , 0, 789-790, 735-741.	0.2	0
85	Hardware-in-the-Loop Test Platform Design for UAV Applications. <i>Applied Mechanics and Materials</i> , 0, 789-790, 681-687.	0.2	10
86	An Affine Parameter Dependent Controller of an Helicopter for Various Forward Velocity Conditions. <i>Applied Mechanics and Materials</i> , 0, 789-790, 1067-1072.	0.2	0
87	Development of an Experimental Setup for the Altitude Control of a Ball in a Pipe. <i>Applied Mechanics and Materials</i> , 0, 789-790, 1016-1020.	0.2	0
88	Estimation of Unknown Disturbances in Gimbal Systems. <i>Applied Mechanics and Materials</i> , 0, 789-790, 951-956.	0.2	4
89	Neural Network and Genetic Programming in Pressure Loss Estimation in Eccentric Pipe Flow. , 0, , 163-170.		1