Coşku Kasnakoğlu

List of Publications by Year
in descending order

		759233	839539
89 papers	517 citations	12 h-index	18 g-index
89 all docs	89 docs citations	89 times ranked	370 citing authors

#	Article	IF	Citations
1	Disturbance/Uncertainty Estimator Based Integral Sliding-Mode Control. IEEE Transactions on Automatic Control, 2018, 63, 3940-3947.	5.7	41
2	Control input separation by actuation mode expansion for flow control problems. International Journal of Control, 2008, 81, 1475-1492.	1.9	35
3	Extremum-Seeking Control of Subsonic Cavity Flow. AIAA Journal, 2009, 47, 195-205.	2.6	34
4	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
5	Adaptive Model Predictive Control of a Two-wheeled Robot Manipulator with Varying Mass. Measurement and Control, 2018, 51, 38-56.	1.8	20
6	Control Input Separation Methods for Reduced-Order Model-Based Feedback Flow Control. AIAA Journal, 2008, 46, 2306-2322.	2.6	19
7	Pipelining Harris corner detection with a tiny FPGA for a mobile robot. , 2013, , .		18
8	Comparing and Developing PID and Sliding Mode Controllers for Quadrotor. International Journal of Mechanical Engineering and Robotics Research, 2017, , 194-199.	1.0	17
9	Disturbance/Uncertainty Estimator Based Robust Control of Nonminimum Phase Systems. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1941-1951.	5.8	16
10	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
11	Altitude Control for Small Fixed-Wing Aircraft Using Hâˇž Loop-Shaping Method. IFAC-PapersOnLine, 2016, 49, 111-116.	0.9	14
12	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
13	Robust Autopilot Design Based on a Disturbance/Uncertainty/Coupling Estimator. IEEE Transactions on Control Systems Technology, 2019, 27, 2622-2629.	5.2	12
14	Feedback controlled resource management model for express service in electric vehicle charging stations. Journal of Cleaner Production, 2021, 311, 127629.	9.3	11
15	Modeling and Simulation of Quadrotor UAV Using PID Controller. , 2019, , .		11
16	Hardware-in-the-Loop Test Platform Design for UAV Applications. Applied Mechanics and Materials, 0, 789-790, 681-687.	0.2	10
17	Newton-Raphson Methods in Aircraft Trim: A Comparative Study. , 2020, , .		10
18	Investigation of Multi-Input Multi-Output Robust Control Methods to Handle Parametric Uncertainties in Autopilot Design. PLoS ONE, 2016, 11, e0165017.	2.5	10

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19	Nonlinear modelling and control of the flow over aerofoils using CFD simulations. Simulation Modelling Practice and Theory, 2016, 67, 29-43.	3.8	9
20	Control Loss Recovery Autopilot Design for Fixed-Wing Aircraft. IFAC-PapersOnLine, 2016, 49, 117-123.	0.9	9
21	MIMO nonlinear modeling and robust control of standalone dc photovoltaic systems. International Journal of Hydrogen Energy, 2017, 42, 18064-18080.	7.1	9
22	A parametric study on coal gasification for the production of syngas. Chemical Papers, 2012, 66, .	2.2	7
23	Comparative analysis of performance of the SEPIC converter using LQR and PID controllers. , 2017, , .		7
24	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
25	Design of a flight stabilizer for fixed-wing aircrafts using H$_\infty$ loop shaping method. , 2015, , .		6
26	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
27	Autonomous Navigation of an Aircraft Using a NARX Recurrent Neural Network. , 2019, , .		6
28	Design of output feedback sliding mode controller for SEPIC converter for robustness. International Journal of Electronics, 2020, 107, 239-249.	1.4	6
29	Automatic Recovery and Autonomous Navigation of Disabled Aircraft After Control Surface Actuator Jam. , 2010, , .		5
30	Robust Temperature Control of a Thermoelectric Cooler via μ-Synthesis. Journal of Electronic Materials, 2018, 47, 4421-4429.	2.2	5
31	Autonomous Face Detection and Tracking Using Quadrotor UAV. , 2020, , .		5
32	Nonlinear Modeling and Robust Control of a Quadrotor UAV under Uncertain Parameters and White Gaussian Noise. , 2021, , .		5
33	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
34	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
35	An Affine Parameter Dependent Controller for an Autonomous Helicopter at Different Flight Conditions. IFAC-PapersOnLine, 2015, 48, 174-179.	0.9	4
36	LQG/LTR position control of an BLDC motor with experimental validation. , 2015, , .		4

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37	Estimation of Unknown Disturbances in Gimbal Systems. Applied Mechanics and Materials, 0, 789-790, 951-956.	0.2	4
38	Output Feedback Sliding Mode Control of a Fixed-Wing UAV Under Rudder Loss. , 2019, , .		4
39	GLSDC Based Parameter Estimation Algorithm for a PMSM Model. Energies, 2021, 14, 611.	3.1	4
40	Average and Peak Current Mode Control Comparison for Full-Bridge Converter. , 2021, , .		4
41	Hardware-in-the-Loop Test Platform for a Small Fixed Wing Unmanned Aerial Vehicle Embedded Controller. , 2013, , .		4
42	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
43	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
44	Path Planning and Collision Avoidance with Artificial Intelligence for a Quadrotor UAV. , 2021, , .		4
45	Feedback flow control employing local dynamical modelling with wavelets. Mathematical and Computer Modelling of Dynamical Systems, 2009, 15, 493-513.	2.2	3
46	Analysis of Flow Over a Circular Cylinder by CFD and Reduced Order Modeling. , 2010, , .		3
47	Control of Oscillations in Flow Problems Under Frequency Limitations. JVC/Journal of Vibration and Control, 2010, 16, 1941-1966.	2.6	3
48	Simulation time analysis of MATLAB/Simulink and LabVIEW for control applications. , 2015, , .		3
49	Reduced CORDIC based logarithmic convertor. , 2017, , .		3
50	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
51	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
52	Control input separation methods applied to cavity flow. , 2008, , .		2
53	Stabilizer Autopilot Design For Fixed Wing UAV Using ODSMC. , 2018, , .		2
54	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

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55	Design of extended Kalman filter for SEPIC converter and comparison to Kalman filter. SN Applied Sciences, 2020, 2, 1.	2.9	2
56	An enhanced bandwidth disturbance observer based control– S-filter approach. Turkish Journal of Electrical Engineering and Computer Sciences, 2021, 29, 2170-2185.	1.4	2
57	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
58	Extremum-Seeking Control of Subsonic Cavity Flow. , 2008, , .		1
59	Prediction of dynamical properties of flow over a three-element airfoil via computationally intelligent architectures. , 2008, , .		1
60	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
61	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
62	Improving quadrotor 3-axes stabilization results using empirical results and system identification. , 2013, , .		1
63	Output Feedback Discrete SMC Design For Quadratic Buck DC-DC Converter. , 2018, , .		1
64	Vector Control of PMSM in Circulation Pump Application and an Adaptive Approach for EEI Optimization. , 2019, , .		1
65	LQI Control Design with LQG Regulator via UKF for a Fixed-Wing Aircraft. , 2020, , .		1
66	Painter Prediction from Artworks with Transfer Learning. , 2021, , .		1
67	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
68	Neural Network and Genetic Programming in Pressure Loss Estimation in Eccentric Pipe Flow. , 0, , 163-170.		1
69	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
70	Face Detection and Facial Feature Extraction with Machine Learning. Lecture Notes in Networks and Systems, 2022, , 205-213.	0.7	1
71	Analysis and Nonlinear Control of Galerkin Models Using Averaging and Center Manifold Theory. Proceedings of the American Control Conference, 2007, , .	0.0	0
72	A comparison of architectural varieties in Radial Basis Function Neural Networks. , 2008, , .		0

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73	Constructing linear parameter varying models through adaptation for the control of a class of nonlinear systems. , 2009, , .		0
74	Frequency constrained control of oscillations in flow problems. , 2009, , .		0
75	Obtaining regional dynamical models for flow control using wavelet transform. , 2009, , .		0
76	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
77	Modeling and Control of a Robot Arm on a Two Wheeled Moving Platform. Applied Mechanics and Materials, 0, 789-790, 735-741.	0.2	0
78	An Affine Parameter Dependent Controller of an Helicopter for Various Forward Velocity Conditions. Applied Mechanics and Materials, 0, 789-790, 1067-1072.	0.2	0
79	Development of an Experimental Setup for the Altitude Control of a Ball in a Pipe. Applied Mechanics and Materials, 0, 789-790, 1016-1020.	0.2	0
80	Heading Hold Autopilot Design for Fixed Wing Aircraft. , 2018, , .		0
81	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
82	Design of a 4D Trajectory Tracking Controller with Anti-Windup Protection for Fixed-Wing Aircraft. , 2019, , .		0
83	A Comparison of â„‚â^ž-Synthesis and Feedback Linearization for Rotary Inverted Pendulum. , 2020, , .		0
84	Fuzzy Logic Controlled Active Hydro-Pneumatic Suspension Design Simulation and Comparison for Performance Analysis. , 2021, , .		0
85	Modeling, control and evaluation of fluid flow systems using adaptation based linear parameter varying models. , 2009, , .		0
86	Designing a Feedback Vorticity Control System for the Flow Past a Circular Cylinder. , 2013, , .		0
87	Quadrotor Roll and Pitch Stabilization using System Identification based Redesign of Empirical Controllers. , 2013, , .		0
88	Aileron Locking Fault Detection Based on Extended Kalman Filter for UAV. , 2019, , .		0
89	LQR Control and Observer Design of a Magnetically Suspended Ball. , 2022, , .		0