

Alexandra Moutinho

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

757
citations

759190

12
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552766

26
g-index

40
all docs

40
docs citations

40
times ranked

493
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear state-feedback design for vehicle lateral control using sum-of-squares programming. <i>Vehicle System Dynamics</i> , 2022, 60, 743-769.	3.7	10
2	Increased Robustness to Delay in Incremental Controllers Using Input Scaling Gain. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2022, 58, 1199-1210.	4.7	7
3	Robustness of Incremental Backstepping Flight Controllers: The Boeing 747 Case Study. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2021, 57, 3492-3505.	4.7	9
4	Color-based Superpixel Semantic Segmentation for Fire Data Annotation. , 2021, , .		0
5	A comprehensive experimental validation of a scaled car-like vehicle: Lateral dynamics identification, stability analysis, and control application. <i>Control Engineering Practice</i> , 2021, 116, 104924.	5.5	2
6	System Architecture of a Robotics Airship. <i>Smart Innovation, Systems and Technologies</i> , 2021, , 13-22.	0.6	4
7	Wildfire detection using transfer learning on augmented datasets. <i>Expert Systems With Applications</i> , 2020, 142, 112975.	7.6	69
8	Estimation of tire-“road friction for road vehicles: a time delay neural network approach. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020, 42, 1.	1.6	31
9	Decentralized Distribution of UAV Fleets Based on Fuzzy Clustering for Demand-driven Aerial Services. , 2020, , .		4
10	Control Design Based on Sum of Squares Programming for Non-affine in Input Systems. , 2020, , .		0
11	Thermal Infrared Sensing for Near Real-Time Data-Driven Fire Detection and Monitoring Systems. <i>Sensors</i> , 2020, 20, 6803.	3.8	22
12	Sum of squares approach for ground vehicle lateral control under tire saturation forces. <i>IFAC-PapersOnLine</i> , 2020, 53, 14387-14393.	0.9	1
13	Actuation Failure Detection in Fixed-Wing Aircraft Combining a Pair of Two-Stage Kalman Filters. <i>IFAC-PapersOnLine</i> , 2020, 53, 744-749.	0.9	5
14	Robust Incremental Backstepping Controller for the Attitude and Airspeed Tracking of a Commercial Airplane. , 2019, , .		5
15	Classification of potential fire outbreaks: A fuzzy modeling approach based on thermal images. <i>Expert Systems With Applications</i> , 2019, 129, 216-232.	7.6	23
16	Addressing Actuation Redundancies in Incremental Controllers for Attitude Tracking of Fixed-Wing Aircraft. <i>IFAC-PapersOnLine</i> , 2019, 52, 417-422.	0.9	9
17	Integration of Phase Plane Flight Envelope Protections in Cascaded Incremental Flight Control. <i>IFAC-PapersOnLine</i> , 2019, 52, 429-435.	0.9	5
18	Automatic Detection of Obstacles in Railway Tracks Using Monocular Camera. <i>Lecture Notes in Computer Science</i> , 2019, , 284-294.	1.3	3

#	ARTICLE	IF	CITATIONS
19	Implementing active learning through pedagogical coaching in Control Systems lectures. , 2018, , .		3
20	Analysis of Fire Hazard in Campsite Areas. Fire Technology, 2017, 53, 553-575.	3.0	8
21	Relating Aircraft Altitude with Pilot's Physiological Variables: Towards Increasing Safety in Light-sport Aviation. , 2017, , .		0
22	Quadrotor Attitude Control using Incremental Nonlinear Dynamics Inversion. , 2017, , .		1
23	Airship robust path-tracking: A tutorial on airship modelling and gain-scheduling control design. Control Engineering Practice, 2016, 50, 22-36.	5.5	46
24	Lateral Control of Airship with Uncertain Dynamics using Incremental Nonlinear Dynamics Inversion. IFAC-PapersOnLine, 2015, 48, 69-74.	0.9	21
25	The Tilt-Quadrotor: Concept, Modeling and Identification. , 2015, , .		6
26	Stabilization and Altitude Control of an Indoor Low-Cost Quadrotor: Design and Experimental Results. , 2015, , .		4
27	Attitude Estimation in SO(3): A Comparative UAV Case Study. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 80, 375-384.	3.4	8
28	Attitude estimation in SO(3): A comparative case study. , 2014, , .		0
29	A new offline optimization approach for designing a fuel cell hybrid bus. Transportation Research Part C: Emerging Technologies, 2014, 42, 14-27.	7.6	30
30	Preprocessing of Clinical Databases to improve classification accuracy of patient diagnosis*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 14121-14126.	0.4	3
31	A backstepping controller for path-tracking of an underactuated autonomous airship. International Journal of Robust and Nonlinear Control, 2009, 19, 418-441.	3.7	79
32	Erratum on "Influence of Wind Speed on Airship Dynamics". Journal of Guidance, Control, and Dynamics, 2008, 31, 443-444.	2.8	15
33	Hover Control of an UAV With Backstepping Design Including Input Saturations. IEEE Transactions on Control Systems Technology, 2008, 16, 517-526.	5.2	162
34	A Gain-Scheduling Approach for Airship Path-Tracking. , 2008, , 263-275.		0
35	Nonlinear Control Approaches for an Autonomous Unmanned Robotic Airship. , 2007, , .		9
36	Airship Hover Stabilization Using a Backstepping Control Approach. Journal of Guidance, Control, and Dynamics, 2006, 29, 903-914.	2.8	62

#	ARTICLE	IF	CITATIONS
37	HOVER STABILIZATION OF AN AIRSHIP USING DYNAMIC INVERSION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 193-198.	0.4	0
38	Project AURORA: Infrastructure and flight control experiments for a robotic airship. Journal of Field Robotics, 2006, 23, 201-222.	6.0	46
39	Stability and Robustness Analysis of the AURORA Airship Control System using Dynamic Inversion. , 0, , .		41