David SaussiÃ©

List of Publications by Year
in descending order

41	534	840776 11	794594 19
papers	citations	h-index	g-index

41	41	41	374
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optimal Vehicle-Target Assignment: A Swarm of Pursuers to Intercept Maneuvering Evaders Based on Ideal Proportional Navigation. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 1316-1332.	4.7	4
2	Relative Position Estimation Between Two UWB Devices With IMUs. IEEE Robotics and Automation Letters, 2021, 6, 4313-4320.	5.1	30
3	Design and Experimental Validation of Robust Self-Scheduled Fault-Tolerant Control Laws for a Multicopter UAV. IEEE/ASME Transactions on Mechatronics, 2021, 26, 2548-2557.	5.8	26
4	Input-to-State Stability of a Clamped-Free Damped String in the Presence of Distributed and Boundary Disturbances. IEEE Transactions on Automatic Control, 2020, 65, 1248-1255.	5.7	13
5	Distributed algorithm for the navigation of a swarm of nano-quadrotors in cluttered environments. , 2020, , .		1
6	Lagrangian Derivation of Variable-Mass Equations of Motion using an Arbitrary Attitude Parameterization. Journal of the Astronautical Sciences, 2020, 67, 1206-1219.	1.5	0
7	Universal Adaptive Fault-Tolerant Control of a Multicopter UAV. IFAC-PapersOnLine, 2020, 53, 9340-9347.	0.9	2
8	ISS with respect to boundary and in-domain disturbances for a coupled beam-string system. Mathematics of Control, Signals, and Systems, 2018, 30, 1.	2.3	7
9	Modeling and Control of a Quadcopter Flying in a Wind Field: A Comparison Between LQR and Structured â„‹_{âˆž} Control Techniques. , 2018, , .		26
10	Fault-Tolerant Control of a Hexacopter UAV based on Self-Scheduled Control Allocation. , 2018, , .		19
11	Boundary Control of a Nonhomogeneous Flexible Wing with Bounded Input Disturbances. IEEE Transactions on Automatic Control, 2018, , 1-1.	5.7	1
12	Boundary feedback stabilization of a flexible wing model under unsteady aerodynamic loads. Automatica, 2018, 97, 73-81.	5.0	18
13	Autonomous Landing of a Quadcopter on a High-Speed Ground Vehicle. Journal of Guidance, Control, and Dynamics, 2017, 40, 2378-2385.	2.8	43
14	An Extension of Lyapunovâ€™s First Method to Nonlinear Systems With Non-Continuously Differentiable Vector Fields. , 2017, 1, 74-79.		0
15	Flutter Suppression for Underactuated Aeroelastic Wing Section: Nonlinear Gain-Scheduling Approach. Journal of Guidance, Control, and Dynamics, 2017, 40, 2102-2109.	2.8	11
16	Robust Self-Scheduled Fault-Tolerant Control of a Quadrotor UAV. IFAC-PapersOnLine, 2017, 50, 5761-5767.	0.9	12
17	Quaternion-based robust fault-tolerant control of a quadrotor UAV. , 2017, , .		7
18	An enhanced velocity-based algorithm for safe implementations of gain-scheduled controllers. International Journal of Control, 2017, 90, 1973-1989.	1.9	4

#	Article	IF	Citations
19	Explicit hidden coupling terms handling in gain-scheduling control design via eigenstructure assignment. Control Engineering Practice, 2017, 58, 1-11.	5.5	5
20	Robust Control of a Tandem Helicopter with Variable Payload. IFAC-PapersOnLine, 2017, 50, 15952-15958.	0.9	2
21	Autonomous Landing of a Multirotor Micro Air Vehicle on a High Velocity Ground Vehicle * *This work was partially supported by CFI JELF Award 32848 and a hardware donation from DJI.. IFAC-PapersOnLine, 2017, 50, 10488-10494.	0.9	59
22	Partition modeling and optimization of ARINC 653 operating systems in the context of IMA. , 2016, , .		2
23	Hidden Coupling Terms Inclusion in Gain-Scheduling Control Design: Extension of an Eigenstructure Assignment-Based Technique**This work was supported by NSERC under Grant RGPIN-2014-03942 and RGPIN-312116-13.. IFAC-PapersOnLine, 2016, 49, 403-408.	0.9	3
24	Gain-Scheduling Control Design in the Presence of Hidden Coupling Terms. Journal of Guidance, Control, and Dynamics, 2016, 39, 1871-1879.	2.8	11
25	Handling Hidden Coupling Terms in Gain-Scheduling Control Design: Application to a Pitch-Axis Missile Autopilot . , 2016, , .		8
26	Modeling and control of a space robot for active debris removal. CEAS Space Journal, 2015, 7, 203-218.	2.3	25
27	A structured <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mo>â^ž</mml:mo></mml:mrow> optimization approach for integrated plant and self-scheduled flight control system design. Aerospace Science and Technology, 2015, 45, 30-38.	4.8	32
28	A Robust and Self-Scheduled Longitudinal Flight Control System: a Multi-Model and Structured H-infinity Approach. , 2014, , .		16
29	The ROSACE case study: From Simulink specification to multi/many-core execution. , 2014, , .		45
30	Real-time distributed simulations in an HLA framework: Application to aircraft simulation. Simulation, 2014, 90, 627-643.	1.8	18
31	Self-scheduled and structured H<inf>⋡</inf> synthesis : A launch vehicle application. , 2013, , .		6
32	Real-Time Distributed Aircraft Simulation through HLA. , 2012, , .		16
33	Preliminary Study of an Active Feedback System for Aircraft Guidance. , 2012, , .		1
34	Output feedback based pole confinement for launch vehicle attitude control. , 2012, , .		0
35	ModÃ©lisation LFT et commande auto-sÃ©quencÃ©e. Application au pilotage d'un lanceur. Journal Europeen Des Systemes Automatises, 2012, 46, 479-506.	0.4	1
36	Gain Scheduling with Guardian Maps for Longitudinal Flight Control. Journal of Guidance, Control, and Dynamics, 2011, 34, 1045-1059.	2.8	40

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37	Robust scheduled control of longitudinal flight with handling quality satisfaction. Aeronautical Journal, 2011, 115, 163-174.	1.6	2
38	Robustness augmentation of an aircraft pitch rate controller. , 2011, , .		0
39	Aircraft pitch rate control design with guardian maps. , 2010, , .		5
40	Gain Scheduling Control Design for a Pitch-Axis Missile Autopilot. , 2008, , .		11
41	Modeling and gain-scheduled control of an aerial manipulator. International Journal of Dynamics and Control, 0, , 1.	2.5	2