Hugo Lhachemi

List of Publications by Year
in descending order

44 papers	515 citations	687363 13 h-index	752698 20 g-index
47 all docs	47 docs citations	47 times ranked	250 citing authors

#	Article	IF	Citations
1	Post-lockdown abatement of COVID-19 by fast periodic switching. PLoS Computational Biology, 2021, 17, e1008604.	3.2	43
2	An LMI condition for the robustness of constant-delay linear predictor feedback with respect to uncertain time-varying input delays. Automatica, 2019, 109, 108551.	5.0	35
3	Augmented Reality, Cyber-Physical Systems, and Feedback Control for Additive Manufacturing: A Review. IEEE Access, 2019, 7, 50119-50135.	4.2	33
4	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>âˆ</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
5	An Application of 3D Model Reconstruction and Augmented Reality for Real-Time Monitoring of Additive Manufacturing. Procedia CIRP, 2019, 81, 346-351.	1.9	27
6	Feedback Stabilization of a Class of Diagonal Infinite-Dimensional Systems With Delay Boundary Control. IEEE Transactions on Automatic Control, 2021, 66, 105-120.	5.7	25
7	PI Regulation of a Reaction–Diffusion Equation With Delayed Boundary Control. IEEE Transactions on Automatic Control, 2021, 66, 1573-1587.	5.7	24
8	Boundary feedback stabilization of a reaction–diffusion equation with Robin boundary conditions and state-delay. Automatica, 2020, 116, 108931.	5.0	23
9	Finite-dimensional observer-based boundary stabilization of reaction–diffusion equations with either a Dirichlet or Neumann boundary measurement. Automatica, 2022, 135, 109955.	5.0	22
10	Predictor-based output feedback stabilization of an input delayed parabolic PDE with boundary measurement. Automatica, 2022, 137, 110115.	5.0	22
11	ISS Property with respect to boundary disturbances for a class of Riesz-spectral boundary control systems. Automatica, 2019, 109, 108504.	5.0	20
12	Boundary feedback stabilization of a flexible wing model under unsteady aerodynamic loads. Automatica, 2018, 97, 73-81.	5.0	18
13	A Robust and Self-Scheduled Longitudinal Flight Control System: a Multi-Model and Structured H-infinity Approach. , 2014, , .		16
14	Robustness of constant-delay predictor feedback for in-domain stabilization of reaction–diffusion PDEs with time- and spatially-varying input delays. Automatica, 2021, 123, 109347.	5.0	15
15	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
16	Exponential input-to-state stabilization of a class of diagonal boundary control systems with delay boundary control. Systems and Control Letters, 2020, 138, 104651.	2.3	13
17	I-nteract: A Cyber-Physical System for Real-Time Interaction With Physical and Virtual Objects Using Mixed Reality Technologies for Additive Manufacturing. IEEE Access, 2020, 8, 98761-98774.	4.2	12
18	Gain-Scheduling Control Design in the Presence of Hidden Coupling Terms. Journal of Guidance, Control, and Dynamics, 2016, 39, 1871-1879.	2.8	11

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19	Flutter Suppression for Underactuated Aeroelastic Wing Section: Nonlinear Gain-Scheduling Approach. Journal of Guidance, Control, and Dynamics, 2017, 40, 2102-2109.	2.8	11
20	Control Law Realification for the Feedback Stabilization of a Class of Diagonal Infinite-Dimensional Systems With Delay Boundary Control. , 2019, 3, 930-935.		9
21	Handling Hidden Coupling Terms in Gain-Scheduling Control Design: Application to a Pitch-Axis Missile Autopilot . , 2016, , .		8
22	Finite-Dimensional Observer-Based PI Regulation Control of a Reaction–Diffusion Equation. IEEE Transactions on Automatic Control, 2022, 67, 6143-6150.	5.7	8
23	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
24	Boundary output feedback stabilisation of a class of reaction–diffusion PDEs with delayed boundary measurement. International Journal of Control, 2023, 96, 2285-2295.	1.9	7
25	On the design of cyber-physical control system for a smart pedelec (Ebike). , 2019, , .		6
26	Nonlinear boundary output feedback stabilization of reaction–diffusion equations. Systems and Control Letters, 2022, 166, 105301.	2.3	6
27	Explicit hidden coupling terms handling in gain-scheduling control design via eigenstructure assignment. Control Engineering Practice, 2017, 58, 1-11.	5.5	5
28	Robustness of Constant-Delay Predictor Feedback with Respect to Distinct Uncertain Time-Varying Input Delays. IFAC-PapersOnLine, 2020, 53, 7677-7682.	0.9	5
29	Proportional Integral Regulation Control of a One-Dimensional Semilinear Wave Equation. SIAM Journal on Control and Optimization, 2022, 60, 1-21.	2.1	5
30	Output feedback stabilization of reaction–diffusion PDEs with a non-collocated boundary condition. Systems and Control Letters, 2022, 164, 105238.	2.3	5
31	An enhanced velocity-based algorithm for safe implementations of gain-scheduled controllers. International Journal of Control, 2017, 90, 1973-1989.	1.9	4
32	On Design for Additive Manufacturing: Review of Challenges and Opportunities utilising Visualisation Technologies. , 2019, , .		4
33	Integral action for setpoint regulation control of a reaction–diffusion equation in the presence of a state delay. Automatica, 2021, 134, 109935.	5.0	4
34	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
35	In-Domain Stabilization of Block Diagonal Infinite-Dimensional Systems With Time-Varying Input Delays. IEEE Transactions on Automatic Control, 2021, 66, 6017-6024.	5.7	3
36	Stability analysis of reaction–diffusion PDEs coupled at the boundaries with an ODE. Automatica, 2022, 144, 110465.	5.0	3

#	Article	IF	Citations
37	Partition modeling and optimization of ARINC 653 operating systems in the context of IMA. , 2016, , .		2
38	Flutter Suppression for a Two Degree of Freedom Aeroelastic Wing Section: a Structured H-infinity-Based Gain-Scheduling Approach with Explicit Hidden Coupling Terms Handling. , 2017, , .		1
39	Boundary Control of a Nonhomogeneous Flexible Wing with Bounded Input Disturbances. IEEE Transactions on Automatic Control, 2018, , 1-1.	5.7	1
40	An Extension of Lyapunov's First Method to Nonlinear Systems With Non-Continuously Differentiable Vector Fields. , 2017, 1, 74-79.		0
41	ISS of a Clamped-Free Damped String for the Configurations Associated with the Loss of the Riesz-Spectral Properties. , 2019, , .		0
42	Regulation of a reaction-diffusion equation with bounded observation. , 2021, , 78-85.		0
43	On the Derivation of Stability Properties for Time-Delay Systems Without Constraint on the Time-Derivative of the Initial Condition. IEEE Transactions on Automatic Control, 2021, 66, 5401-5406.	5.7	0
44	Neumann trace tracking of a constant reference input for 1-D boundary controlled heat-like equations with delay. IFAC-PapersOnLine, 2020, 53, 7716-7721.	0.9	0