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	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
2	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
3	Predictor-based output feedback stabilization of an input delayed parabolic PDE with boundary measurement. Automatica, 2022, 137, 110115.	5.0	22
4	Finite-Dimensional Observer-Based PI Regulation Control of a Reaction–Diffusion Equation. IEEE Transactions on Automatic Control, 2022, 67, 6143-6150.	5.7	8
5	Proportional Integral Regulation Control of a One-Dimensional Semilinear Wave Equation. SIAM Journal on Control and Optimization, 2022, 60, 1-21.	2.1	5
6	Output feedback stabilization of reaction–diffusion PDEs with a non-collocated boundary condition. Systems and Control Letters, 2022, 164, 105238.	2.3	5
7	Nonlinear boundary output feedback stabilization of reaction–diffusion equations. Systems and Control Letters, 2022, 166, 105301.	2.3	6
8	Stability analysis of reaction–diffusion PDEs coupled at the boundaries with an ODE. Automatica, 2022, 144, 110465.	5.0	3
9	PI Regulation of a Reaction–Diffusion Equation With Delayed Boundary Control. IEEE Transactions on Automatic Control, 2021, 66, 1573-1587.	5.7	24
10	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
11	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
12	Regulation of a reaction-diffusion equation with bounded observation. , 2021, , 78-85.		0
13	Post-lockdown abatement of COVID-19 by fast periodic switching. PLoS Computational Biology, 2021, 17, e1008604.	3.2	43
14	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
15	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
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Boundary feedback stabilization of a reaction–diffusion equation with Robin boundary conditions and state-delay. Automatica, 2020, 116, 108931.	5.0	23
20	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
21	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
22	Robustness of Constant-Delay Predictor Feedback with Respect to Distinct Uncertain Time-Varying Input Delays. IFAC-PapersOnLine, 2020, 53, 7677-7682.	0.9	5
23	ISS Property with respect to boundary disturbances for a class of Riesz-spectral boundary control systems. Automatica, 2019, 109, 108504.	5.0	20
24	On Design for Additive Manufacturing: Review of Challenges and Opportunities utilising Visualisation Technologies. , 2019, , .		4
25	Control Law Realification for the Feedback Stabilization of a Class of Diagonal Infinite-Dimensional Systems With Delay Boundary Control. , 2019, 3, 930-935.		9
26	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
27	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
28	Augmented Reality, Cyber-Physical Systems, and Feedback Control for Additive Manufacturing: A Review. IEEE Access, 2019, 7, 50119-50135.	4.2	33
29	ISS of a Clamped-Free Damped String for the Configurations Associated with the Loss of the Riesz-Spectral Properties. , 2019, , .		0
30	On the design of cyber-physical control system for a smart pedelec (Ebike). , 2019, , .		6
31	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
32	Boundary Control of a Nonhomogeneous Flexible Wing with Bounded Input Disturbances. IEEE Transactions on Automatic Control, 2018, , 1-1.	5.7	1
33	Boundary feedback stabilization of a flexible wing model under unsteady aerodynamic loads. Automatica, 2018, 97, 73-81.	5.0	18
34	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
35	An Extension of Lyapunov's First Method to Nonlinear Systems With Non-Continuously Differentiable Vector Fields. , 2017, 1, 74-79.		0
36	Flutter Suppression for Underactuated Aeroelastic Wing Section: Nonlinear Gain-Scheduling Approach. Journal of Guidance, Control, and Dynamics, 2017, 40, 2102-2109.	2.8	11

#	Article	IF	Citations
37	An enhanced velocity-based algorithm for safe implementations of gain-scheduled controllers. International Journal of Control, 2017, 90, 1973-1989.	1.9	4
38	Explicit hidden coupling terms handling in gain-scheduling control design via eigenstructure assignment. Control Engineering Practice, 2017, 58, 1-11.	5.5	5
39	Partition modeling and optimization of ARINC 653 operating systems in the context of IMA. , 2016, , .		2
40	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
41	Gain-Scheduling Control Design in the Presence of Hidden Coupling Terms. Journal of Guidance, Control, and Dynamics, 2016, 39, 1871-1879.	2.8	11
42	Handling Hidden Coupling Terms in Gain-Scheduling Control Design: Application to a Pitch-Axis Missile Autopilot . , 2016, , .		8
43	A structured H_∞ optimization approach for integrated plant and self-scheduled flight control system design. Aerospace Science and Technology, 2015, 45, 30-38.	4.8	32
44	A Robust and Self-Scheduled Longitudinal Flight Control System: a Multi-Model and Structured H-infinity Approach. , 2014, , .		16