Jean Auriol

List of Publications by Year
in descending order

33 papers	432 citations
10 h-index (933410)	20 g-index (752679)
35 all docs	35 docs citations
35 times ranked	167 citing authors

#	ARTICLE	IF	CITATIONS
1	Minimum time control of heterodirectional linear coupled hyperbolic PDEs. Automatica, 2016, 71, 300-307.	5.0	85
2	Delay-Robust Control Design for Two Heterodirectional Linear Coupled Hyperbolic PDEs. IEEE Transactions on Automatic Control, 2018, 63, 3551-3557.	5.7	50
3	Delay-robust stabilization of a hyperbolic PDE–ODE system. Automatica, 2018, 95, 494-502.	5.0	34
4	An explicit mapping from linear first order hyperbolic PDEs to difference systems. Systems and Control Letters, 2019, 123, 144-150.	2.3	29
5	Robust output feedback stabilization for two heterodirectional linear coupled hyperbolic PDEs. Automatica, 2020, 115, 108896.	5.0	25
6	Output feedback stabilization of an underactuated cascade network of interconnected linear PDE systems using a backstepping approach. Automatica, 2020, 117, 108964.	5.0	22
7	Two-Sided Boundary Stabilization of Heterodirectional Linear Coupled Hyperbolic PDEs. IEEE Transactions on Automatic Control, 2018, 63, 2421-2436.	5.7	21
8	Estimating friction factors while drilling. Journal of Petroleum Science and Engineering, 2019, 179, 80-91.	4.2	19
9	Output-feedback control of an underactuated network of interconnected hyperbolic PDE–ODE systems. Systems and Control Letters, 2021, 154, 104984.	2.3	15
10	Delay robust state feedback stabilization of an underactuated network of two interconnected PDE systems. , 2019, , .		13
11	Stability Analysis for a Class of Linear 2×2 Hyperbolic PDEs Using a Backstepping Transform. IEEE Transactions on Automatic Control, 2020, 65, 2941-2956.	5.7	11
12	Simultaneous downstream and upstream output-feedback stabilization of cascaded freeway traffic. Automatica, 2022, 136, 110044.	5.0	10
13	Robust state-feedback stabilization of an underactuated network of interconnected $n+m$ hyperbolic PDE systems. Automatica, 2022, 136, 110040.	5.0	9
14	Late-lumping backstepping control of partial differential equations. Automatica, 2019, 100, 247-259.	5.0	8
15	Robust Control Design of Underactuated 2 × 2 PDE-ODE-PDE Systems. , 2021, 5, 469-474.		8
16	Sensing and computational frameworks for improving drill-string dynamics estimation. Mechanical Systems and Signal Processing, 2021, 160, 107836.	8.0	8
17	Two-sided boundary stabilization of two linear hyperbolic PDEs in minimum time. , 2016, , .		7
18	A Sensing and Computational Framework for Estimating the Seismic Velocities of Rocks Interacting With the Drill Bit. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 3178-3189.	6.3	7

#	Article	IF	Citations
19	Closed-loop tool face control with the bit off-bottom. Journal of Process Control, 2020, 90, 35-45.	3.3	7
20	Simultaneous Stabilization of Traffic Flow on Two Connected Roads. , 2020, , .		6
21	Look Ahead of the Bit While Drilling: Potential Impacts and Challenges of Acoustic Seismic While Drilling in the McMurray Formation. SPE Journal, 2020, 25, 2194-2205.	3.1	5
22	Comparing Advanced Control Strategies to Eliminate Stick-Slip Oscillations in Drillstrings. IEEE Access, 2022, 10, 10949-10969.	4.2	5
23	Advanced sensing and imaging for efficient energy exploration in complex reservoirs. Energy Reports, 2020, 6, 3104-3118.	5.1	4
24	Trajectory tracking for a system of two linear hyperbolic PDEs with uncertainties. IFAC-PapersOnLine, 2017, 50, 7089-7095.	0.9	3
25	Delay-robust stabilization of an n+m hyperbolic PDE-ODE system. , 2019, , .		3
26	Combining Formation Seismic Velocities while Drilling and a PDE-ODE observer to improve the Drill-String Dynamics Estimation. , 2020, , .		3
27	Stabilization of a hyperbolic PDEs-ODE network using a recursive dynamics interconnection framework. , 2021, , .		3
28	Traffic flow control on cascaded roads by event–triggered output feedback. International Journal of Robust and Nonlinear Control, 2022, 32, 5919-5949.	3.7	3
29	Torsional-vibrations Damping in Drilling Systems: Multiplicity-Induced-Dominancy based design. IFAC-PapersOnLine, 2021, 54, 428-433.	0.9	2
30	Output-Feedback PDE Control of Traffic Flow on Cascaded Freeway Segments. IFAC-PapersOnLine, 2020, 53, 7623-7628.	0.9	2
31	Practical Output Regulation and Tracking for Linear ODE-hyperbolic PDE-ODE Systems. Advances in Delays and Dynamics, 2022, , 143-169.	0.4	2
32	Stabilizing Output-Feedback Control Law for Hyperbolic Systems Using a Fredholm Transformation. IEEE Transactions on Automatic Control, 2022, 67, 6651-6666.	5.7	2
33	Explicit Prediction-Based Control for Linear Difference Equations With Distributed Delays. , 2022, 6, 2864-2869.		1