

# Florent Di Meglio

## List of Publications by Year in descending order

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26  
papers

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citations

840776

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docs citations

26  
times ranked

292  
citing authors

#	ARTICLE	IF	CITATIONS
1	MOVIE: A Velocity-Aided IMU Attitude Estimator for Observing and Controlling Multiple Deformations on Legged Robots. IEEE Robotics and Automation Letters, 2022, 7, 3969-3976.	5.1	6
2	Robust Control Design of Underactuated 2 $\ddot{A}$ – 2 PDE-ODE-PDE Systems. , 2021, 5, 469-474.		8
3	A phenomenological transient model of bit foundering. Journal of Petroleum Science and Engineering, 2021, 199, 108299.	4.2	2
4	Joint State and Dynamics Estimation With High-Gain Observers and Gaussian Process Models. , 2021, 5, 1627-1632.		4
5	Stability Analysis for a Class of Linear $2 \times 2$ Hyperbolic PDEs Using a Backstepping Transform. IEEE Transactions on Automatic Control, 2020, 65, 2941-2956.	5.7	11
6	State Estimation for a Legged Robot With Multiple Flexibilities Using IMUs: A Kinematic Approach. IEEE Robotics and Automation Letters, 2020, 5, 195-202.	5.1	6
7	Improving Low-Level Control of the Exoskeleton Atalante in Single Support by Compensating Joint Flexibility. , 2020, , .		3
8	Stability Analysis of a $\{ext\{2\}\} \times \{ext\{2\}\}$ Linear Hyperbolic System With a Sampled-Data Controller via Backstepping Method and Looped-Functionals. IEEE Transactions on Automatic Control, 2019, 64, 1718-1725.	5.7	30
9	Estimating friction factors while drilling. Journal of Petroleum Science and Engineering, 2019, 179, 80-91.	4.2	19
10	Delay robust control design of under-actuated PDE-ODE-PDE systems. , 2019, , .		4
11	Delay robust state feedback stabilization of an underactuated network of two interconnected PDE systems. , 2019, , .		13
12	Delay-Robust Control Design for Two Heterodirectional Linear Coupled Hyperbolic PDEs. IEEE Transactions on Automatic Control, 2018, 63, 3551-3557.	5.7	50
13	Two-Sided Boundary Stabilization of Heterodirectional Linear Coupled Hyperbolic PDEs. IEEE Transactions on Automatic Control, 2018, 63, 2421-2436.	5.7	21
14	Stabilization of coupled linear heterodirectional hyperbolic PDE–ODE systems. Automatica, 2018, 87, 281-289.	5.0	104
15	Estimation of Multiple Flexibilities of an Articulated System Using Inertial Measurements. , 2018, , .		4
16	Transient Modelling of Influx and Observer Implementation for Estimation While Drilling. , 2018, , .		2
17	Delay-robust stabilization of a hyperbolic PDE–ODE system. Automatica, 2018, 95, 494-502.	5.0	34
18	A Methodology for Classifying Operating Regimes in Underbalanced-Drilling Operations. SPE Journal, 2016, 21, 423-433.	3.1	15

#	ARTICLE	IF	CITATIONS
19	Two-sided boundary stabilization of two linear hyperbolic PDEs in minimum time. , 2016, , .		7
20	Minimum time control of heterodirectional linear coupled hyperbolic PDEs. Automatica, 2016, 71, 300-307.	5.0	85
21	Prediction-based control of linear input-delay system subject to state-dependent state delay - Application to suppression of mechanical vibrations in drilling. IFAC-PapersOnLine, 2016, 49, 111-117.	0.9	11
22	Control of Homodirectional and General Heterodirectional Linear Coupled Hyperbolic PDEs. IEEE Transactions on Automatic Control, 2016, 61, 3301-3314.	5.7	213
23	Control-Oriented Drift-Flux Modeling of Single and Two-Phase Flow for Drilling. , 2014, , .		18
24	An adaptive observer for hyperbolic systems with application to UnderBalanced Drilling. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 11391-11397.	0.4	31
25	Stabilization of a System of $n+1$ Coupled First-Order Hyperbolic Linear PDEs With a Single Boundary Input. IEEE Transactions on Automatic Control, 2013, 58, 3097-3111.	5.7	220
26	A backstepping boundary observer for a class of linear first-order hyperbolic systems. , 2013, , .		7