Francesco Smarra

List of Publications by Year
in descending order

26	665	1039406 9	887659 17
papers	citations	h-index	g-index

26	26	26	635
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Data-driven model predictive control using random forests for building energy optimization and climate control. Applied Energy, 2018, 226, 1252-1272.	5.1	220
2	State of the art of cyber-physical systems security: An automatic control perspective. Journal of Systems and Software, 2019, 149, 174-216.	3.3	125
3	DR-Advisor: A data-driven demand response recommender system. Applied Energy, 2016, 170, 30-46.	5.1	63
4	Data-Driven Model Predictive Control with Regression Treesâ€"An Application to Building Energy Management. ACM Transactions on Cyber-Physical Systems, 2018, 2, 1-21.	1.9	42
5	Resilient stabilization of Multi-Hop Control Networks subject to malicious attacks. Automatica, 2016, 71, 1-9.	3.0	36
6	Data-driven switching modeling for MPC using Regression Trees and Random Forests. Nonlinear Analysis: Hybrid Systems, 2020, 36, 100882.	2.1	33
7	Dataâ€driven optimal predictive control of seismic induced vibrations in frame structures. Structural Control and Health Monitoring, 2020, 27, e2514.	1.9	21
8	Data-driven Switched Affine Modeling for Model Predictive Control. IFAC-PapersOnLine, 2018, 51, 199-204.	0.5	20
9	Data predictive control using regression trees and ensemble learning. , 2017, , .		19
10	Learning Models for Seismic-Induced Vibrations Optimal Control in Structures via Random Forests. Journal of Optimization Theory and Applications, 2020, 187, 855-874.	0.8	14
11	Optimal co-design of control, scheduling and routing in multi-hop control networks. , 2012, , .		11
12	Approximation methods for optimal network coding in a multi-hop control network with packet losses. , 2015, , .		8
13	A Comparison of Classical Identification and Learning-Based Techniques for Cyber-Physical Systems. , 2021, , .		8
14	Fault Tolerant Stabilizability of MIMO Multi-Hop Control Networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 79-84.	0.4	6
15	An entropy-based sensor selection algorithm for structural damage detection. , 2020, , .		6
16	On the Stability of Switched ARX Models, with an Application to Learning via Regression Trees. IFAC-PapersOnLine, 2021, 54, 61-66.	0.5	6
17	Learning affine predictors for MPC of nonlinear systems via artificial neural networks. IFAC-PapersOnLine, 2020, 53, 5233-5238.	0.5	6
18	Fault detection and isolation of malicious nodes in MIMO Multi-hop Control Networks. , 2013, , .		5

#	Article	IF	Citations
19	Learning methods for structural damage detection via entropyâ€based sensors selection. International Journal of Robust and Nonlinear Control, 2022, 32, 6035-6067.	2.1	5
20	A sub-optimal method for routing redundancy design over lossy networks. IFAC-PapersOnLine, 2017, 50, 2549-2554.	0.5	3
21	Efficient routing redundancy design over lossy networks. International Journal of Robust and Nonlinear Control, 2018, 28, 2574-2597.	2.1	3
22	Further results on fault detection and isolation of malicious nodes in Multi-hop Control Networks. , 2015, , .		2
23	Learning lighting models for optimal control of lighting system via experimental and numerical approach. Science and Technology for the Built Environment, 2021, 27, 1018-1030.	0.8	1
24	Learning Markov models of fading channels in wireless control networks: a regression trees based approach. , 2021, , .		1
25	Learning Markov Jump Affine Systems via Regression Trees for MPC. IFAC-PapersOnLine, 2020, 53, 5252-5257.	0.5	1
26	Fault-tolerant control of a wireless HVAC control system. , 2014, , .		0