

Iury Valente de Bessa

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

434
citations

759055

12
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794469

19
g-index

53
all docs

53
docs citations

53
times ranked

355
citing authors

#	ARTICLE	IF	CITATIONS
1	Data-driven fault detection and isolation scheme for a wind turbine benchmark. <i>Renewable Energy</i> , 2016, 87, 634-645.	4.3	58
2	Fault tolerant control for linear parameter varying systems: An improved robust virtual actuator and sensor approach. <i>ISA Transactions</i> , 2020, 104, 356-369.	3.1	34
3	TS fuzzy reconfiguration blocks for fault tolerant control of nonlinear systems. <i>Journal of the Franklin Institute</i> , 2020, 357, 4592-4623.	1.9	30
4	Digital Twin Applications: A Survey of Recent Advances and Challenges. <i>Processes</i> , 2022, 10, 744.	1.3	30
5	Verification of fixed-point digital controllers using direct and delta forms realizations. <i>Design Automation for Embedded Systems</i> , 2016, 20, 95-126.	0.7	19
6	Automated Formal Synthesis of Digital Controllers for State-Space Physical Plants. <i>Lecture Notes in Computer Science</i> , 2017, , 462-482.	1.0	19
7	Formal Non-Fragile Stability Verification of Digital Control Systems with Uncertainty. <i>IEEE Transactions on Computers</i> , 2017, 66, 545-552.	2.4	19
8	Data-driven prognostics of rolling element bearings using a novel Error Based Evolving Takagi-Sugeno Fuzzy Model. <i>Applied Soft Computing Journal</i> , 2020, 96, 106628.	4.1	19
9	Passivation blocks for fault tolerant control of nonlinear systems. <i>Automatica</i> , 2021, 125, 109450.	3.0	17
10	Survey on automated symbolic verification and its application for synthesising cyber-physical systems. <i>IET Cyber-Physical Systems: Theory and Applications</i> , 2020, 5, 1-24.	1.9	14
11	Uncertain Data Modeling Based on Evolving Ellipsoidal Fuzzy Information Granules. <i>IEEE Transactions on Fuzzy Systems</i> , 2020, 28, 2427-2436.	6.5	13
12	Sim3Tanks: A Benchmark Model Simulator for Process Control and Monitoring. <i>IEEE Access</i> , 2018, 6, 62234-62254.	2.6	12
13	Dynamic event-triggered gain-scheduling control of discrete-time quasi-LPV systems. <i>Automatica</i> , 2022, 141, 110292.	3.0	12
14	DSVerifier-Aided Verification Applied to Attitude Control Software in Unmanned Aerial Vehicles. <i>IEEE Transactions on Reliability</i> , 2018, 67, 1420-1441.	3.5	11
15	Sound and Automated Synthesis of Digital Stabilizing Controllers for Continuous Plants. , 2017, , .		10
16	Robust decentralized controller for minimizing coupling effect in single inductor multiple output DC-DC converter operating in continuous conduction mode. <i>ISA Transactions</i> , 2018, 73, 112-129.	3.1	9
17	Learning event-triggered control based on evolving data-driven fuzzy granular models. <i>International Journal of Robust and Nonlinear Control</i> , 2022, 32, 2805-2827.	2.1	8
18	Dual-Rate Control Framework With Safe Watermarking Against Deception Attacks. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2022, 52, 7494-7506.	5.9	8

#	ARTICLE	IF	CITATIONS
19	Verification of Delta Form Realization in Fixed-Point Digital Controllers Using Bounded Model Checking. , 2014, , .		7
20	SMT-based bounded model checking of fixed-point digital controllers. , 2014, , .		7
21	SMT-based Verification Applied to Non-convex Optimization Problems. , 2016, , .		6
22	Verifying digital systems with MATLAB. , 2017, , .		6
23	Verifying fragility in digital systems with uncertainties using DSVerifier v2.0. Journal of Systems and Software, 2019, 153, 22-43.	3.3	6
24	Planning and Evaluation of UAV Mission Planner for Intralogistics Problems. , 2017, , .		5
25	Fractional Order Pole Placement for a buck converter based on commensurable transfer function. ISA Transactions, 2020, 107, 370-384.	3.1	5
26	A sufficient condition to design unknown input observers for nonlinear systems with arbitrary relative degree. International Journal of Robust and Nonlinear Control, 2022, 32, 8331-8348.	2.1	5
27	DSSynth: An automated digital controller synthesis tool for physical plants. , 2017, , .		4
28	Automated formal synthesis of provably safe digital controllers for continuous plants. Acta Informatica, 2020, 57, 223-244.	0.5	4
29	Counterexample guided inductive optimization based on satisfiability modulo theories. Science of Computer Programming, 2018, 165, 3-23.	1.5	3
30	Incremental Bounded Model Checking of Artificial Neural Networks in CUDA. , 2019, , .		3
31	Comparison of the PLL Control techniques applied in Photovoltaic System. , 2019, , .		3
32	Comparative Study of Control Strategies for Stabilization and Performance Improvement of DC Microgrids with a CPL Connected. Energies, 2020, 13, 2663.	1.6	3
33	OptCE: A Counterexample-Guided Inductive Optimization Solver. Lecture Notes in Computer Science, 2017, , 125-141.	1.0	2
34	Static outputâ€ feedback stabilization of discreteâ€ time linear parameterâ€ varying systems under actuator saturation. International Journal of Robust and Nonlinear Control, 2022, 32, 5799-5809.	2.1	2
35	DSValidator. , 2018, , .		1
36	Stabilization of DC Microgrids with Point-of-Load Converters as Constant Power Loads. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
37	Investigation of Control Strategies to Mitigate the Oscillation Effects caused by Interconnected Buck Converters. , 2019, , .		1
38	Formal Non-fragile Verification of Step Response Requirements for Digital State-Feedback Control Systems. Journal of Control, Automation and Electrical Systems, 2020, 31, 557-573.	1.2	1
39	Evolving Fuzzy System Applied to Battery Charge Capacity Prediction for Fault Prognostics. , 0, , .		1
40	Comparative study of control strategies for oscillation damping in DC microgrids. , 0, , .		1
41	Dissipativity and Stability Recovery by Fault Hiding. IFAC-PapersOnLine, 2020, 53, 4121-4126.	0.5	1
42	Counterexample guided inductive optimization applied to mobile robots path planning. , 2017, , .		0
43	Single-phase fault detection in balanced 14 bus system using artificial neural networks. , 2018, , .		0
44	Direct Form Digital Robust RST Control Based on Chebyshev Sphere Optimization Applied in a DC-DC Power Converter. Energies, 2020, 13, 3810.	1.6	0
45	Incremental Learning and State-Space Evolving Fuzzy Control of Nonlinear Time-Varying Systems with Unknown Model. , 0, , .		0
46	Estabilizaçãõ de reguladores de tensãõ da topologia buck conectado a uma CPL utilizando tã©nicas de controle baseadas em LMI. , 2021, , .		0
47	PLL and Current Mode Control Design Methodologies Applied to Improve the Performance of a Grid-Tie Photovoltaic System. , 0, , .		0
48	Novas Condições para Recuperaçãõ de Estabilidade com Atuadores Virtuais Estãticos. , 0, , .		0
49	Estratãgias de controle aplicadas para mitigaçãõ de oscilações decorrentes de CPL em uma microrrede CC do tipo boost-buck. , 0, , .		0
50	Investigaçãõ de Estratãgias de Controle para Conversores de Potãncia Boost Aplicados em Sistemas Fotovoltaicos. , 0, , .		0
51	Investigaçãõ de Estratãgias de Controle Clãssico aplicadas a Conversores de Potãncia do tipo Flyback. , 0, , .		0
52	Fault Prognostics of Rolling Bearings Using a Hybrid Approach. IFAC-PapersOnLine, 2020, 53, 4082-4087.	0.5	0