Jose M G Sa Da Costa

List of Publications by Year
in descending order

100 papers	2,759 citations	236833 25 h-index	197736 49 g-index
102 all docs	102 docs citations	102 times ranked	3455 citing authors

#	Article	IF	Citations
1	Local validation of structural health monitoring strain measurements. Measurement: Journal of the International Measurement Confederation, 2019, 136, 143-153.	2.5	9
2	Strain gauges debonding fault detection for structural health monitoring. Structural Control and Health Monitoring, 2018, 25, e2264.	1.9	24
3	Double bridge circuit for self‐validated structural health monitoring strain measurements. Strain, 2018, 54, e12278.	1.4	4
4	Constructing statistical models for arch dam deformation. Structural Control and Health Monitoring, 2014, 21, 423-437.	1.9	154
5	Fractional sliding mode control of MIMO nonlinear noncommensurable plants. JVC/Journal of Vibration and Control, 2014, 20, 1052-1065.	1.5	14
6	Construction of decision rules for early detection of a developing concrete arch dam failure scenario. A discriminant approach. Computers and Structures, 2014, 142, 45-53.	2.4	22
7	Modal Filtering Properties of Piezoelectric Laminates with Directional Actuation. Advances in Intelligent Systems and Computing, 2014, , 141-152.	0.5	0
8	Time‐frequency analysis for concrete dam safety control: Correlation between the daily variation of structural response and air temperature. Engineering Structures, 2013, 48, 658-665.	2.6	52
9	Variable Order Fractional Controllers. Asian Journal of Control, 2013, 15, 648-657.	1.9	33
10	Mechanical construction and installation of the ATLAS tile calorimeter. Journal of Instrumentation, 2013, 8, T11001-T11001.	0.5	3
11	The optical instrumentation of the ATLAS Tile Calorimeter. Journal of Instrumentation, 2013, 8, P01005-P01005.	0.5	4
12	Design and experimental control of an active‐flexible tubular manipulator link. Journal of Intelligent Material Systems and Structures, 2012, 23, 1741-1757.	1.4	6
13	Fault Detection System for the Évora Irrigation Canal. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 750-755.	0.4	0
14	A SCADA system for energy management in intelligent buildings. Energy and Buildings, 2012, 49, 85-98.	3.1	115
15	Laboratory Software for the Three-Tank Benchmark System: From PID to Multi-Agent Fault-Tolerant Fractional Control. Procedia, Social and Behavioral Sciences, 2012, 46, 1919-1923.	0.5	5
16	Fractional reset control. Signal, Image and Video Processing, 2012, 6, 495-501.	1.7	6
17	Fault tolerant control using a fuzzy predictive approach. Expert Systems With Applications, 2012, 39, 10630-10638.	4.4	19
18	Motion planning and actuator specialization in the control of active-flexible link robots. Journal of Sound and Vibration, 2012, 331, 3255-3270.	2.1	23

#	ARTICLE	IF	CITATIONS
19	An Introduction to Fractional Control. , 2012, , .		50
20	Identifying digital and fractional transfer functions from a frequency response. International Journal of Control, 2011, 84, 445-457.	1.2	15
21	Rule-Based Fractional Control of an Irrigation Canal. Journal of Computational and Nonlinear Dynamics, 2011, 6, .	0.7	11
22	Introduction to single-input, single-output fractional control. IET Control Theory and Applications, 2011, 5, 1033-1057.	1.2	128
23	Modelling and control of a wave energy converter. Renewable Energy, 2011, 36, 1913-1921.	4.3	37
24	Variable-order fractional derivatives and their numerical approximations. Signal Processing, 2011, 91, 470-483.	2.1	224
25	Finding a fractional model from frequency and time responses. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 911-921.	1.7	20
26	Multi-agent PID and fractional PID control of the three-tank benchmark system. , 2010, , .		4
27	Fault tolerant control using evolving fuzzy modeling. , 2010, , .		1
28	A multi-agent approach to a networked fault detection system. , 2010, , .		1
29	Robustness assessment of model-based control for the Archimedes Wave Swing. , 2009, , .		1
30	Rule-based fractional control of an irrigation canal. , 2009, , .		8
31	A flexible robot control solution for hip resurfacing surgery. , 2009, , .		0
32	Operative Platform Applied to Building Automation. Computer-Aided Civil and Infrastructure Engineering, 2009, 24, 26-40.	6.3	7
33	Distributed supply chain management using ant colony optimization. European Journal of Operational Research, 2009, 199, 349-358.	3.5	67
34	An architecture for fault detection and isolation based on fuzzy methods. Expert Systems With Applications, 2009, 36, 1092-1104.	4.4	66
35	A Matlab/Simulink Multi-agent Toolkit for Distributed Networked Fault Tolerant Control System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1073-1078.	0.4	10
36	Identification and control of the AWS using neural network models. Applied Ocean Research, 2008, 30, 178-188.	1.8	40

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37	Comparison of control strategies performance for a Wave Energy Converter. , 2008, , .		15
38	An Efficient System to Monitor and Control the Energy Production and Consumption. , 2008, , .		8
39	Identifying a Transfer Function From a Frequency Response. Journal of Computational and Nonlinear Dynamics, 2008, 3, .	0.7	49
40	Fault accommodation of an experimental three tank system using fuzzy predictive control. , 2008, , .		10
41	Reference tracking versus path-following for a one-link flexible robot manipulator. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 11763-11768.	0.4	1
42	Design of Distributed Fault Tolerant Control Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 13575-13580.	0.4	4
43	Multi-agent platform for fault tolerant control systems. , 2007, , .		9
44	Numerical Implementation and Comparison Between the Viscous, Fractional and Hysteretic Damping Models of a Rigid-Flexible Planar Manipulator. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	1
45	Improving navigation of an Autonomous Mobile Robot using System Identification and Control. , 2007, , .		1
46	A Concept for an Operative Platform to Manage Intelligent Buildings. , 2007, , .		0
47	Feedback linearisation control applied to the Archimedes Wave Swing. , 2007, , .		8
48	Linear model identification of the Archimedes Wave Swing. , 2007, , .		9
49	Comparison of control strategies applied to the Archimedes Wave Swing. , 2007, , .		5
50	Position control of a manipulator with one flexible link. , 2007, , .		0
51	Optimisation of wave energy extraction with the Archimedes Wave Swing. Ocean Engineering, 2007, 34, 2330-2344.	1.9	105
52	A Concept for an Operational Management System for Industrial Purposes. , 2007, , .		7
53	Identification of Fractional Models from Frequency Data. , 2007, , 229-242.		15
54	Tuning Rules for Fractional PIDs. , 2007, , 463-476.		12

#	Article	IF	Citations
55	Fault Accommodation Using Fuzzy Predictive Control. , 2006, , .		2
56	TUNING-RULES FOR FRACTIONAL PID CONTROLLERS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 28-33.	0.4	32
57	FDI approach to the DAMADICS benchmark problem based on qualitative reasoning coupled with fuzzy neural networks. Control Engineering Practice, 2006, 14, 685-698.	3.2	18
58	Actuator fault distinguishability study for the DAMADICS benchmark problem. Control Engineering Practice, 2006, 14, 645-652.	3.2	37
59	Tuning of fractional PID controllers with Ziegler–Nichols-type rules. Signal Processing, 2006, 86, 2771-2784.	2.1	395
60	Application of a novel fuzzy classifier to fault detection and isolation of the DAMADICS benchmark problem. Control Engineering Practice, 2006, 14, 653-669.	3.2	29
61	Distributed optimisation of a logistic system and its suppliers using ant colonies. International Journal of Systems Science, 2006, 37, 503-512.	3.7	40
62	A systematic modelling strategy for futures markets volatility. Applied Financial Economics, 2006, 16, 819-833.	0.5	2
63	Predictive control as an intelligent tool to manage water distribution networks. , 2006, , .		2
64	Fuzzy Neural Networks Applied to Fault Diagnosis. , 2006, , 305-334.		9
65	Causal Models for Distributed Fault Diagnosis of Complex Systems. , 2006, , 335-356.		5
66	A Fuzzy Classification Technique Applied to Fault Diagnosis. , 2006, , 105-123.		2
67	Vibration control of a very flexible manipulator system. Control Engineering Practice, 2005, 13, 267-277.	3.2	120
68	Time-domain implementation of fractional order controllers. IET Control Theory and Applications, 2005, 152, 539-552.	1.7	92
69	Which differintegration?. IET Computer Vision, 2005, 152, 846.	1.3	27
70	Intelligent active noise control applied to a laboratory railway coach model. Control Engineering Practice, 2005, 13, 473-484.	3.2	18
71	Fuzzy-based Refinement of the Fault Diagnosis Task in Industrial Devices. Journal of Intelligent Manufacturing, 2005, 16, 599-614.	4.4	11
72	Modelling, Control and Validation of Flexible Robot Manipulators. , 2005, , 239-268.		3

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73	A low cost mobile robot for engineering education. , 2005, , .		39
74	Optimization problems in multivariable fuzzy predictive control. International Journal of Approximate Reasoning, 2004, 36, 199-221.	1.9	45
75	Refinement of the Diagnosis Process Performed with a Fuzzy Classifier. Lecture Notes in Computer Science, 2004, , 365-372.	1.0	2
76	Approaches for dynamic modelling of flexible manipulator systems. IET Control Theory and Applications, 2003, 150, 401-411.	1.7	102
77	Fuzzy active noise modeling and control. International Journal of Approximate Reasoning, 2003, 33, 51-70.	1.9	19
78	Robust control of dynamical systems using neural networks with input–output feedback linearization. International Journal of Control, 2003, 76, 1783-1789.	1.2	6
79	Pattern Recognition Approach to Fault Diagnosis in the DAMADICS Benchmark Flow Control Valve. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 861-866.	0.4	4
80	Optimal control of uncertain piecewise affine/mixed logical dynamical systems. , 2003, , .		7
81	A Fuzzy Classification Solution for Fault Diagnosis of Valve Actuators. Lecture Notes in Computer Science, 2003, , 741-747.	1.0	3
82	Digital implementation of non-integer control and its application to a two-link robotic arm. , 2003, , .		1
83	Modeling of Flexible Beams for Robotic Manipulators. Multibody System Dynamics, 2002, 7, 79-100.	1.7	55
84	Model-based active noise control using neural networks. , 2001, , .		1
85	Robust control using neural networks and input-output feedback linearization. , 2001, , .		0
86	Stability analysis to parametric uncertainty: Extension to the multivariable case. Lecture Notes in Control and Information Sciences, 2001, , 93-102.	0.6	0
87	Fuzzy predictive algorithms applied to real-time force control. Control Engineering Practice, 2001, 9, 411-423.	3.2	22
88	Force Control of Robotic Manipulators Using a Fuzzy Predictive Approach. Journal of Intelligent and Robotic Systems: Theory and Applications, 2001, 30, 359-376.	2.0	2
89	Modeling of Flexible Manipulators for Control Design 1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 273-278.	0.4	1
90	Robust stability of feedback linearised systems modelled with neural networks: dealing with uncertainty. Engineering Applications of Artificial Intelligence, 2000, 13, 659-670.	4.3	16

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91	Object-oriented and distributed approach for programming robotic manufacturing cells. Robotics and Computer-Integrated Manufacturing, 2000, 16, 29-42.	6.1	69
92	Linear predictive control based on approximate input-output feedback linearisation. IET Control Theory and Applications, 1999, 146, 295-300.	1.7	18
93	Predictive control based on neural network models with I/O feedback linearization. International Journal of Control, 1999, 72, 1538-1554.	1.2	31
94	A comparison of nonlinear predictive control techniques using neural network models. Journal of Systems Architecture, 1998, 44, 597-616.	2.5	10
95	Position sensing and motor control in industrial robotics. , 0, , .		0
96	An experimental testbed for position and force control of robotic manipulators. , 0, , .		1
97	An open architecture for position and force control of robotic manipulators. , 0, , .		2
98	Modeling of an ocean waves power device AWS. , 0, , .		13
99	A fuzzy classifier for fault diagnosis of valve actuators. , 0, , .		4
100	Considerations about the choice of a differintegrator. , 0, , .		0