Adrian Gambier

List of Publications by Year
in descending order

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Version: 2024-02-01

44	456	1040056	839539
papers	citations	9	18
		h-index	g-index

59	59	59	377
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Future emerging technologies in the wind power sector: A European perspective. Renewable and Sustainable Energy Reviews, 2019, 113, 109270.	16.4	140
2	MPC and PID control based on Multi-Objective Optimization. , 2008, , .		45
3	Application of hybrid modeling and control techniques to desalination plants. Desalination, 2003, 152, 175-184.	8.2	26
4	Multi-objective Optimal Control: An Overview. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	24
5	Collective Pitch Control with Active Tower Damping of a Wind Turbine by Using a Nonlinear PID Approach. IFAC-PapersOnLine, 2018, 51, 238-243.	0.9	15
6	Control system design of reverse osmosis plants by using advanced optimization techniques. Desalination and Water Treatment, 2009, 10, 200-209.	1.0	14
7	Simultaneous design of pitch control and active tower damping of a wind turbine by using multi-objective optimization. , 2017, , .		13
8	Multivariable generalized state-space receding horizon control in a real-time environment. Automatica, 1999, 35, 1787-1797.	5.0	12
9	Integrated Pitch Control System Design of a Wind Turbine by Using Multiobjective Optimization. IFAC-PapersOnLine, 2018, 51, 239-244.	0.9	12
10	Pitch Control of Three Bladed Large Wind Energy Convertersâ€"A Review. Energies, 2021, 14, 8083.	3.1	12
11	Digital PID controller design based on parametric optimization. , 2008, , .		10
12	Control System Design for a 20 MW Reference Wind Turbine. , 2019, , .		10
13	Dynamic Modelling of the Rotating Subsystem of a Wind Turbine for Control Design Purposes. IFAC-PapersOnLine, 2017, 50, 9896-9901.	0.9	9
14	Multiobjective Optimal Control of Wind Turbines: A Survey on Methods and Recommendations for the Implementation. Energies, 2022, 15, 567.	3.1	9
15	Laboratory set-up for education and research on automation of reverse osmosis plants employing a sustainable energy source. Desalination, 2004, 166, 307-314.	8.2	8
16	Nonlinear PID Control for Pitch Systems of Large Wind Energy Converters. , 2018, , .		8
17	Multi-loop Controller Design for a Heat Exchanger. , 2006, , .		7
18	Multi-loop controller design for a heat exchanger. , 2006, , .		7

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19	Evolutionary Multiobjective Optimization with Fractional Order Integral Objectives for the Pitch Control System Design of Wind Turbines. IFAC-PapersOnLine, 2019, 52, 274-279.	0.9	7
20	Real-time fault tolerant control of a Reverse Osmosis desalination plant based on a hybrid system approach. , 2009, , .		6
21	Control of Large Wind Energy Systems. Advances in Industrial Control, 2022, , .	0.5	6
22	Application of hybrid systems techniques for cleaning and replacement of a RO membrane. Desalination, 2009, 247, 25-32.	8.2	5
23	Real-time Control and Hardware-in-the-loop Simulation for Educational Purposes of Wind Energy Systems. IFAC-PapersOnLine, 2020, 53, 17344-17349.	0.9	5
24	Parametric Optimization for Practical Control Systems Design. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	4
25	A new inventory level APIOBPCS-based controller. , 2008, , .		4
26	Fractional Order PID Control with Rate-limited Anti-windup for the Pitch System of Wind Turbines. , 2020, , .		4
27	Control of a Reverse Osmosis plant by using a robust PID design based on multi-objective optimization. , 2011, , .		3
28	Wind turbine loads reduction using feedforward feedback collective pitch control based on the estimated effective wind speed. , 2016, , .		3
29	Modelling the aerodynamic coefficients of wind turbines by using neural networks for control design purposes. Journal of Physics: Conference Series, 2018, 1037, 032032.	0.4	3
30	Multi-objective Optimal Tuning of the Multi-loop Pitch Control Systems of a Wind Turbine. , 2018, , .		3
31	The Challenge of Teaching Control of Wind Turbines in a Civil Engineering School. IFAC-PapersOnLine, 2019, 52, 212-217.	0.9	3
32	Supervisory Control of a Wind Energy System by Using a Hybrid System Approach. , 2019, , .		3
33	Modelling, Parametrization and Observer Design of a 20 MW Reference Wind Turbine for Control Purposes. Journal of Physics: Conference Series, 2020, 1618, 022031.	0.4	3
34	Multivariable State-space Adaptive Control (Adaptive MehrgrÃ¶ÃŸenzustandsregelung). Automatisierungstechnik, 2005, 53, 537-545.	0.8	2
35	A Bilinear Hybrid Model for Diauxic Production of ÃŸ-Galactosidase by E.coli in Biotechnological Plants. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	2
36	Optimal systems engineering and control co-design for water and energy production: A European project. Desalination and Water Treatment, 2009, 10, 192-199.	1.0	2

#	Article	IF	Citations
37	Multiobjective Optimal Control: Algorithms, Approaches and Advice for the Application. , 2020, , .		2
38	Teaching Digital Controllers for Finite Settling Time by Using Model-based Control Education (MBCE) in a Constructivist Framework. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 11666-11671.	0.4	1
39	Modeling the aerodynamics of wind turbines for real-time simulation and control purposes. , 2017, , .		1
40	Hardware-in-the-Loop Simulation and Control for Developing Very Large Wind Energy Systems. IFAC-PapersOnLine, 2020, 53, 12127-12132.	0.9	1
41	Adaptive Interval Observer Design with Application to Wind Energy Converters. , 2020, , .		1
42	On setting-up a portable low-cost real-time control system for research and teaching with application to bioprocess pH control. , 2009, , .		0
43	Individual Pitch Control of a Large Wind Turbine Using a Fractional Order Nonlinear PI Approach with Anti-windup Strategy*. , 2021, , .		0
44	Case Study: 20-MW Reference Wind Turbine. Advances in Industrial Control, 2022, , 263-278.	0.5	0