

Adrian Gambier

List of Publications by Year in descending order

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59
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times ranked

377
citing authors

#	ARTICLE	IF	CITATIONS
1	Control of Large Wind Energy Systems. Advances in Industrial Control, 2022, , .	0.5	6
2	Multiobjective Optimal Control of Wind Turbines: A Survey on Methods and Recommendations for the Implementation. Energies, 2022, 15, 567.	3.1	9
3	Case Study: 20-MW Reference Wind Turbine. Advances in Industrial Control, 2022, , 263-278.	0.5	0
4	Pitch Control of Three Bladed Large Wind Energy Convertersâ€™A Review. Energies, 2021, 14, 8083.	3.1	12
5	Individual Pitch Control of a Large Wind Turbine Using a Fractional Order Nonlinear PI Approach with Anti-windup Strategy* . , 2021, , .		0
6	Fractional Order PID Control with Rate-limited Anti-windup for the Pitch System of Wind Turbines. , 2020, , .		4
7	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
8	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
9	Hardware-in-the-Loop Simulation and Control for Developing Very Large Wind Energy Systems. IFAC-PapersOnLine, 2020, 53, 12127-12132.	0.9	1
10	Adaptive Interval Observer Design with Application to Wind Energy Converters. , 2020, , .		1
11	Multiobjective Optimal Control: Algorithms, Approaches and Advice for the Application. , 2020, , .		2
12	Future emerging technologies in the wind power sector: A European perspective. Renewable and Sustainable Energy Reviews, 2019, 113, 109270.	16.4	140
13	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
14	The Challenge of Teaching Control of Wind Turbines in a Civil Engineering School. IFAC-PapersOnLine, 2019, 52, 212-217.	0.9	3
15	Control System Design for a 20 MW Reference Wind Turbine. , 2019, , .		10
16	Supervisory Control of a Wind Energy System by Using a Hybrid System Approach. , 2019, , .		3
17	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
18	Integrated Pitch Control System Design of a Wind Turbine by Using Multiobjective Optimization. IFAC-PapersOnLine, 2018, 51, 239-244.	0.9	12

#	ARTICLE	IF	CITATIONS
19	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
20	Nonlinear PID Control for Pitch Systems of Large Wind Energy Converters. , 2018, , .		8
21	Multi-objective Optimal Tuning of the Multi-loop Pitch Control Systems of a Wind Turbine. , 2018, , .		3
22	Dynamic Modelling of the Rotating Subsystem of a Wind Turbine for Control Design Purposes. IFAC-PapersOnLine, 2017, 50, 9896-9901.	0.9	9
23	Simultaneous design of pitch control and active tower damping of a wind turbine by using multi-objective optimization. , 2017, , .		13
24	Modeling the aerodynamics of wind turbines for real-time simulation and control purposes. , 2017, , .		1
25	Wind turbine loads reduction using feedforward feedback collective pitch control based on the estimated effective wind speed. , 2016, , .		3
26	Control of a Reverse Osmosis plant by using a robust PID design based on multi-objective optimization. , 2011, , .		3
27	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
28	On setting-up a portable low-cost real-time control system for research and teaching with application to bioprocess pH control. , 2009, , .		0
29	Control system design of reverse osmosis plants by using advanced optimization techniques. Desalination and Water Treatment, 2009, 10, 200-209.	1.0	14
30	Application of hybrid systems techniques for cleaning and replacement of a RO membrane. Desalination, 2009, 247, 25-32.	8.2	5
31	Real-time fault tolerant control of a Reverse Osmosis desalination plant based on a hybrid system approach. , 2009, , .		6
32	Digital PID controller design based on parametric optimization. , 2008, , .		10
33	MPC and PID control based on Multi-Objective Optimization. , 2008, , .		45
34	A new inventory level APIOBPCS-based controller. , 2008, , .		4
35	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
36	A Bilinear Hybrid Model for Diauxic Production of β -Galactosidase by E.coli in Biotechnological Plants. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	2

#	ARTICLE	IF	CITATIONS
37	Parametric Optimization for Practical Control Systems Design. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	4
38	Multi-objective Optimal Control: An Overview. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	24
39	Multi-loop Controller Design for a Heat Exchanger. , 2006, , .		7
40	Multi-loop controller design for a heat exchanger. , 2006, , .		7
41	Multivariable State-space Adaptive Control (Adaptive Mehrgrößenzustandsregelung). Automatisierungstechnik, 2005, 53, 537-545.	0.8	2
42	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
43	Application of hybrid modeling and control techniques to desalination plants. Desalination, 2003, 152, 175-184.	8.2	26
44	Multivariable generalized state-space receding horizon control in a real-time environment. Automatica, 1999, 35, 1787-1797.	5.0	12