

Krzysztof Patan

List of Publications by Year in descending order

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65
papers

734
citations

686830

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26
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75
all docs

75
docs citations

75
times ranked

584
citing authors

#	ARTICLE	IF	CITATIONS
1	Neural-network-based nonlinear iterative learning control: Magnetic brake study. , 2021, , .		0
2	Neural-network-based iterative learning control of nonlinear systems. ISA Transactions, 2020, 98, 445-453.	3.1	55
3	Sensor Fault-Tolerant Control Design for Magnetic Brake System. Sensors, 2020, 20, 4598.	2.1	5
4	Robustness of Neural-Network-based Nonlinear Iterative Learning Control. , 2020, , .		2
5	Robust and Fault-Tolerant Control. Studies in Systems, Decision and Control, 2019, , .	0.8	10
6	Neural-network-based high-order iterative learning control. , 2019, , .		5
7	Model Predictive Control. Studies in Systems, Decision and Control, 2019, , 77-129.	0.8	5
8	Control Reconfiguration. Studies in Systems, Decision and Control, 2019, , 131-167.	0.8	0
9	Two stage neural network modelling for robust model predictive control. ISA Transactions, 2018, 72, 56-65.	3.1	34
10	Experimentally verified multi-objective iterative learning control design with frequency domain specifications. , 2018, , .		2
11	Constrained actuator fault tolerant control with the application to a wind turbine. IFAC-PapersOnLine, 2018, 51, 1157-1163.	0.5	5
12	Design and convergence of iterative learning control based on neural networks. , 2018, , .		9
13	A neural network approach to simultaneous state and actuator fault estimation under unknown input decoupling. Neurocomputing, 2017, 250, 65-75.	3.5	28
14	Observer-based iterative learning control design in the repetitive process setting * *This work is partially supported by National Science Centre in Poland, grant No. 2014/15/B/ST7/03208. IFAC-PapersOnLine, 2017, 50, 13390-13395.	0.5	8
15	Neural networks in design of iterative learning control for nonlinear systems * *This work was supported by National Science Centre in Poland under the grant 2014/15/B/ST7/03208.. IFAC-PapersOnLine, 2017, 50, 13402-13407.	0.5	23
16	A neural network-based simultaneous state and actuator fault estimation under unknown input decoupling. , 2016, , .		0
17	Optimum training design for neural network in synthesis of robust model predictive control. , 2016, , .		1
18	Design of iterative learning control by the means of state space neural networks. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
19	Design of predictive fault tolerant control by the means of State Space Neural Networks. , 2016, , .		3
20	Robust Fault Detection by Means of Echo State Neural Network. Advances in Intelligent Systems and Computing, 2016, , 341-352.	0.5	5
21	A Neural-Network-Based Robust Observer for Simultaneous Unknown Input Decoupling and Fault Estimation. Lecture Notes in Computer Science, 2015, , 535-548.	1.0	3
22	A neural network-based robust unknown input observer design: Application to wind turbine. IFAC-PapersOnLine, 2015, 48, 263-270.	0.5	8
23	Neural Network-Based Model Predictive Control: Fault Tolerance and Stability. IEEE Transactions on Control Systems Technology, 2015, 23, 1147-1155.	3.2	79
24	Design of robust predictive fault-tolerant control for Takagi-Sugeno fuzzy systems: Application to the twin-rotor system. , 2014, , .		3
25	Robust model predictive control using neural networks. , 2014, , .		5
26	Fault accommodation of the two rotor aero-dynamical system using the state space neural networks based model predictive control. , 2014, , .		2
27	Application of the state space neural network to the fault tolerant control system of the PLC-controlled laboratory stand. Engineering Applications of Artificial Intelligence, 2014, 30, 168-178.	4.3	26
28	Computer-Aided On-line Seizure Detection Using Stockwell Transform. Advances in Intelligent Systems and Computing, 2014, , 279-289.	0.5	5
29	Model Predictive Control of the Two Rotor Aero-Dynamical System Using State Space Neural Networks with Delays. Advances in Intelligent Systems and Computing, 2014, , 113-124.	0.5	8
30	Stable neural network based model predictive control. , 2013, , .		0
31	Designing nonlinear model of the Two Rotor Aero-dynamical system using state space neural networks with delays. , 2013, , .		6
32	Comparison of Time-Frequency Feature Extraction Methods for EEG Signals Classification. Lecture Notes in Computer Science, 2013, , 320-329.	1.0	4
33	Nonlinear model predictive control of a boiler unit: A fault tolerant control study. International Journal of Applied Mathematics and Computer Science, 2012, 22, 225-237.	1.5	37
34	Sensor fault estimation in the framework of model predictive control. Boiler case study. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 403-408.	0.4	1
35	Stability Analysis of the Neural Network Based Fault Tolerant Control for the Boiler Unit. Lecture Notes in Computer Science, 2012, , 548-556.	1.0	8
36	Analysis and Classification of EEG Data: An Evaluation of Methods. Lecture Notes in Computer Science, 2012, , 310-317.	1.0	4

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37	Nonlinear model predictive control of a boiler unit: A fault tolerant control study. , 2010, , .		4
38	Selection of Training Data for Locally Recurrent Neural Network. Lecture Notes in Computer Science, 2010, , 134-137.	1.0	1
39	Diagnostic Methods. , 2010, , 153-231.		3
40	Local stability conditions for discrete-time cascade locally recurrent neural networks. International Journal of Applied Mathematics and Computer Science, 2010, 20, 23-34.	1.5	4
41	Application of the DiaSter System. , 2010, , 295-367.		0
42	Corrigendum to "Stability Analysis and the Stabilization of a Class of Discrete-Time Dynamic Neural Networks" [May 07 660-673]. IEEE Transactions on Neural Networks, 2009, 20, 547-548.	4.8	0
43	Fault detection and accommodation by means of neural networks. Application to the boiler unit. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 119-124.	0.4	3
44	Optimal Training Sequences for Locally Recurrent Neural Networks. Lecture Notes in Computer Science, 2009, , 80-89.	1.0	3
45	Approximation of state-space trajectories by locally recurrent globally feed-forward neural networks. Neural Networks, 2008, 21, 59-64.	3.3	20
46	Towards Robustness in Neural Network Based Fault Diagnosis. International Journal of Applied Mathematics and Computer Science, 2008, 18, 443-454.	1.5	56
47	Stability criteria for three-layer locally recurrent networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 5444-5449.	0.4	1
48	Approximation Abilities of Locally Recurrent Networks. , 2008, , 65-75.		1
49	Stability and Stabilization of Locally Recurrent Networks. , 2008, , 77-112.		1
50	Decision Making in Fault Detection. , 2008, , 123-140.		1
51	Modelling Issue in Fault Diagnosis. , 2008, , 7-27.		0
52	Optimum Experimental Design for Locally Recurrent Networks. , 2008, , 113-122.		0
53	Industrial Applications. , 2008, , 141-185.		0
54	Concluding Remarks and Further Research Directions. , 2008, , 187-189.		0

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55	Stability Analysis and the Stabilization of a Class of Discrete-Time Dynamic Neural Networks. IEEE Transactions on Neural Networks, 2007, 18, 660-673.	4.8	46
56	Approximation ability of a class of locally recurrent globally feed-forward neural networks. , 2007, , .		2
57	Fault detection in catalytic cracking converter by means of probability density approximation. Engineering Applications of Artificial Intelligence, 2007, 20, 912-923.	4.3	6
58	Fault Detection in Catalytic Cracking Converter by Means of Probability Density Approximation. , 2007, , 84-89.		0
59	FAULT DETECTION IN CATALYTIC CRACKING CONVERTER BY MEANS OF PROBABILITY DENSITY APPROXIMATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 84-89.	0.4	2
60	ROBUST FAULT DIAGNOSIS IN CATALYTIC CRACKING CONVERTER USING ARTIFICIAL NEURAL NETWORKS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 197-202.	0.4	0
61	Identification of neural dynamic models for fault detection and isolation: the case of a real sugar evaporation process. Journal of Process Control, 2005, 15, 67-79.	1.7	66
62	Optimal observation strategies for model-based fault detection in distributed systems. International Journal of Control, 2005, 78, 1497-1510.	1.2	22
63	Global Stability Conditions of Locally Recurrent Neural Networks. Lecture Notes in Computer Science, 2005, , 191-196.	1.0	1
64	Dynamic Neural Networks for Actuator Fault Diagnosis: Application to the DAMADICS Benchmark Problem. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 975-980.	0.4	4
65	Soft Computing Approaches to Fault Diagnosis for Dynamic Systems. European Journal of Control, 2001, 7, 248-286.	1.6	83