

Marcin Mrugalski

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8654625/publications.pdf>

Version: 2024-02-01

44
papers

561
citations

840585

11
h-index

642610

23
g-index

47
all docs

47
docs citations

47
times ranked

440
citing authors

#	ARTICLE	IF	CITATIONS
1	A GMDH neural network-based approach to robust fault diagnosis: Application to the DAMADICS benchmark problem. <i>Control Engineering Practice</i> , 2006, 14, 671-683.	3.2	109
2	An unscented Kalman filter in designing dynamic GMDH neural networks for robust fault detection. <i>International Journal of Applied Mathematics and Computer Science</i> , 2013, 23, 157-169.	1.5	84
3	Neural network-based robust actuator fault diagnosis for a non-linear multi-tank system. <i>ISA Transactions</i> , 2016, 61, 318-328.	3.1	53
4	Confidence estimation of the multi-layer perceptron and its application in fault detection systems. <i>Engineering Applications of Artificial Intelligence</i> , 2008, 21, 895-906.	4.3	47
5	A quadratic boundedness approach to robust DC motor fault estimation. <i>Control Engineering Practice</i> , 2017, 66, 181-194.	3.2	32
6	Advanced Neural Network-Based Computational Schemes for Robust Fault Diagnosis. <i>Studies in Computational Intelligence</i> , 2014, , .	0.7	31
7	A neural network approach to simultaneous state and actuator fault estimation under unknown input decoupling. <i>Neurocomputing</i> , 2017, 250, 65-75.	3.5	28
8	State-Space GMDH Neural Networks for Actuator Robust Fault Diagnosis. <i>Advances in Electrical and Computer Engineering</i> , 2012, 12, 65-72.	0.5	23
9	Confidence estimation of GMDH neural networks and its application in fault detection systems. <i>International Journal of Systems Science</i> , 2008, 39, 783-800.	3.7	20
10	Towards Robust Neural-Network-Based Sensor and Actuator Fault Diagnosis: Application to a Tunnel Furnace. <i>Neural Processing Letters</i> , 2015, 42, 71-87.	2.0	18
11	An H&inf approach to fault estimation of non-linear systems: Application to one-link manipulator. , 2014, , .		14
12	A quadratic boundedness approach to a neural network-based simultaneous estimation of actuator and sensor faults. <i>Neural Computing and Applications</i> , 2020, 32, 379-389.	3.2	14
13	Dynamic GMDH Type Neural Networks. , 2003, , 698-703.		9
14	Remaining Useful Life Prediction of MOSFETs via the Takagi&Sugeno Framework. <i>Energies</i> , 2021, 14, 2135.	1.6	9
15	Least Mean Square vs. Outer Bounding Ellipsoid Algorithm in Confidence Estimation of the GMDH Neural Networks. <i>Lecture Notes in Computer Science</i> , 2007, , 19-26.	1.0	8
16	Fault diagnosis of an automated guided vehicle with torque and motion forces estimation: A case study. <i>ISA Transactions</i> , 2020, 104, 370-381.	3.1	6
17	ROBUST FAULT DETECTION VIA GMDH NEURAL NETWORKS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005, 38, 83-88.	0.4	5
18	Fuzzy modelling and robust fault-tolerant scheduling of cooperating forklifts. , 2020, , .		5

#	ARTICLE	IF	CITATIONS
19	Robust unknown input filter for fault diagnosis of non-linear systems. , 2013, , .		4
20	Simultaneous estimation of multiple actuator and sensor faults for Takagi-Sugeno fuzzy systems. , 2017, , .		4
21	The Mathematical Model for the Secondary Breakup of Dropping Liquid. Energies, 2020, 13, 6078.	1.6	4
22	Flow Rate Control by Means of Flow Meter and PLC Controller. Sensors, 2021, 21, 6153.	2.1	4
23	Robust fault identification of a polytopic LPV system with neural network. , 2014, , .		3
24	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
25	A predictive actuator fault-tolerant control strategy under input and state constraints. , 2017, , .		3
26	A fuzzy logic approach to remaining useful life control and scheduling of cooperating forklifts. , 2021, , .		3
27	DESIGNING STATE-SPACE MODELS WITH NEURAL NETWORKS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 459-464.	0.4	2
28	Fault Detection with Dynamic GMDH Neural Networks: Application to the DAMADICS Benchmark Problem. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 969-974.	0.4	2
29	Application of the MLP Neural Network to the Robust Fault Detection. , 2007, , 1390-1395.		2
30	An unscented Kalman filter approach to designing GMDH neural networks: Application to the tunnel furnace. , 2011, , .		2
31	Neural Network-Based Simultaneous Estimation of Actuator and Sensor Faults. Lecture Notes in Computer Science, 2017, , 305-316.	1.0	2
32	A Fuzzy Logic Approach to Remaining Useful Life Estimation of Ball Bearings. Advances in Intelligent Systems and Computing, 2020, , 1411-1423.	0.5	2
33	Robust fault diagnosis via parameter identification of dynamical systems. , 2009, , .		1
34	A robust \mathcal{H}_∞ observer design for unknown input nonlinear systems: Application to fault diagnosis of a wind turbine. , 2015, , .		1
35	Robust Time-Varying Sensor Bias Estimation for Bounded-Error Systems: Application to the Wind Turbine Benchmark. , 2018, , .		1
36	Procedural Method for Fast Table Mountains Modelling in Virtual Environments. Applied Sciences (Switzerland), 2019, 9, 2352.	1.3	1

#	ARTICLE	IF	CITATIONS
37	Confidence Estimation of GMDH Neural Networks. Lecture Notes in Computer Science, 2004, , 210-216.	1.0	0
38	APPLICATION OF THE MLP NEURAL NETWORK TO THE ROBUST FAULT DETECTION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 1390-1395.	0.4	0
39	A pole estimation approach to the synthesis of the dynamic GMDH neural networks. , 2010, , .		0
40	Robust Fault Detection Using Zonotope-Based GMDH Neural Network. Advances in Intelligent Systems and Computing, 2014, , 101-112.	0.5	0
41	A Neural Network-Based Approach to Sensor and Actuator Fault-Tolerant Control. Lecture Notes in Computer Science, 2019, , 515-526.	1.0	0
42	Systems identification with GMDH neural networks: a multi-dimensional case. , 2003, , 115-120.		0
43	Robust Sensor and Actuator Fault Diagnosis with GMDH Neural Networks. Lecture Notes in Computer Science, 2013, , 96-105.	1.0	0
44	Designing of State-Space Neural Model and Its Application to Robust Fault Detection. Lecture Notes in Computer Science, 2013, , 140-149.	1.0	0