

Abdelhamid Rabhi

List of Publications by Year in descending order

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104
papers

1,234
citations

516561

16
h-index

501076

28
g-index

108
all docs

108
docs citations

108
times ranked

1131
citing authors

#	ARTICLE	IF	CITATIONS
1	Real Time Fault Detection in Photovoltaic Systems. Energy Procedia, 2017, 111, 914-923.	1.8	80
2	Neuro-Fuzzy Fault Detection Method for Photovoltaic Systems. Energy Procedia, 2014, 62, 431-441.	1.8	66
3	Robust Model-Free Control Applied to a Quadrotor UAV. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 84, 37-52.	2.0	64
4	Road curvature estimation for vehicle lane departure detection using a robust Takagiâ€“Sugeno fuzzy observer. Vehicle System Dynamics, 2013, 51, 581-599.	2.2	59
5	Comprehensive Modulation and Classification of Faults and Analysis Their Effect in DC Side of Photovoltaic System. Energy and Power Engineering, 2013, 05, 230-236.	0.5	54
6	Second order sliding-mode observer for estimation of vehicle dynamic parameters. International Journal of Vehicle Design, 2008, 48, 190.	0.1	51
7	Vehicleâ€“road interaction modelling for estimation of contact forces. Vehicle System Dynamics, 2005, 43, 403-411.	2.2	47
8	Vehicle dynamic estimation with road bank angle consideration for rollover detection: theoretical and experimental studies. Vehicle System Dynamics, 2013, 51, 1853-1871.	2.2	40
9	An explicit I-V model for photovoltaic module technologies. Energy Conversion and Management, 2017, 138, 400-412.	4.4	40
10	Robust fuzzy control for stabilization of a quadrotor. , 2011, , .		38
11	Model-free control of a quadrotor vehicle. , 2014, , .		34
12	Optimization of Scaling Factors of Fuzzyâ€“MPPT Controller for Stand-alone Photovoltaic System by Particle Swarm Optimization. Energy Procedia, 2017, 111, 954-963.	1.8	32
13	Real-time model base fault diagnosis of PV panels using statistical signal processing. , 2013, , .		30
14	Different linearization control techniques for a quadrotor system. , 2012, , .		27
15	Vehicle dynamics and road curvature estimation for lane departure warning system using robust fuzzy observers: experimental validation. Vehicle System Dynamics, 2015, 53, 1135-1149.	2.2	26
16	A low-cost monitoring system for maximum power point of a photovoltaic system using IoT technique. , 2019, , .		26
17	Novel Differential Current Control Strategy Based on a Modified Three-Level SVPWM for Two Parallel-Connected Inverters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 1807-1818.	3.7	24
18	Renewable Energy Management Algorithm for a Water Pumping System. Energy Procedia, 2017, 111, 1030-1039.	1.8	23

#	ARTICLE	IF	CITATIONS
19	Fuzzy State Feedback for Attitude Stabilization of Quadrotor. International Journal of Advanced Robotic Systems, 2016, 13, 2.	1.3	20
20	Parameter Estimation of Solar Modules Operating Under Outdoor Operational Conditions Using Artificial Hummingbird Algorithm. IEEE Access, 2022, 10, 51299-51314.	2.6	20
21	New method for fault detection of PV panels in domestic applications. , 2013, , .		19
22	Sensor fault detection and isolation in the quadrotor vehicle using nonlinear identity observer approach. , 2013, , .		18
23	Decentralized networked control system design using Takagi-Sugeno (TS) fuzzy approach. International Journal of Automation and Computing, 2015, 12, 125-133.	4.5	17
24	Experiential Integral Backstepping Sliding Mode Controller to achieve the Maximum Power Point of a PV system. Control Engineering Practice, 2020, 102, 104570.	3.2	17
25	Contribution to the optimization of the electrical energy production from a Hybrid Renewable Energy system. , 2014, , .		14
26	Energy Management for an Autonomous Renewable Energy System. Energy Procedia, 2015, 83, 299-309.	1.8	14
27	Sensor fault diagnosis and fault tolerant control using intelligent-output-estimator applied on quadrotor UAV. , 2016, , .		14
28	Partial shading fault diagnosis in PV system with discrete wavelet transform (DWT). , 2014, , .		13
29	Detection of impending vehicle rollover with road bank angle consideration using a robust fuzzy observer. International Journal of Automation and Computing, 2015, 12, 93-101.	4.5	12
30	Second Order Sliding Mode Observer for Estimation of Road Profile. , 0, , .		11
31	Estimation of contact forces and tire road friction. , 2007, , .		11
32	Optimization and control for a photovoltaic pumping system. , 2013, , .		11
33	Global maximum power point tracking of a PV system MPPT control under partial shading. , 2018, , .		9
34	Actuator Fault-Diagnosis and Fault-Tolerant-Control using intelligent-Output-Estimator Applied on Quadrotor UAV. , 2019, , .		9
35	Adaptation mechanism techniques for improving a model reference adaptive speed observer in wind energy conversion systems. Electrical Engineering, 2020, 102, 1621-1637.	1.2	9
36	Quadrotor Position Control Using Cascaded Adaptive Integral Backstepping Controllers. Applied Mechanics and Materials, 0, 565, 98-106.	0.2	8

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37	Real-Time Determination of Solar Cell Parameters. Journal of Electronic Materials, 2017, 46, 6535-6543.	1.0	8
38	Power Efficiency Improvement of a Boost Converter Using a Coupled Inductor with a Fuzzy Logic Controller: Application to a Photovoltaic System. Applied Sciences (Switzerland), 2021, 11, 980.	1.3	8
39	Road bank angle considerations for detection of impending vehicle rollover. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 31-36.	0.4	7
40	Estimation of contact forces and road profile using High-Order Sliding Modes. International Journal of Vehicle Autonomous Systems, 2010, 8, 23.	0.2	7
41	A New VSAS approach for Maximum Power Tracking for Renewable Energy Sources (RES). Energy Procedia, 2013, 42, 708-717.	1.8	7
42	Application of fuzzy logic on a PV water pumping system. , 2014, , .		7
43	Adaptive nonlinear observer augmented by radial basis neural network for a nonlinear sensorless control of an induction machine. International Journal of Automation and Control, 2018, 12, 27.	0.3	7
44	Improved Real Time Amorphous PV Model for Fault Diagnostic Usage. Smart Innovation, Systems and Technologies, 2013, , 179-188.	0.5	7
45	Design of robust control for uncertain fuzzy quadruple-tank systems with time-varying delays. Granular Computing, 2022, 7, 951-964.	4.4	7
46	Estimation and Analysis of the Tire Pressure Effects on the Comportment of the Vehicle Center of Gravity. , 0, , .		6
47	Vehicle dynamics and road geometry estimation using a Takagi-Sugeno fuzzy observer with unknown inputs. , 2011, , .		6
48	Analytical redundancy techniques for faults in vehicle. , 0, , .		5
49	Fuzzy observer for detection of impending vehicle rollover with road bank angle considerations. , 2010, , .		5
50	Robust H _∞ fuzzy networked control for vehicle lateral dynamics. , 2013, , .		5
51	Real-time diagnosis of PV system by using the Sequential Probability Ratio Test (SPRT). , 2014, , .		5
52	Sliding Mode Control and Modified SVM for Suppressing Circulating Currents in Parallel-Connected Inverters. Electric Power Components and Systems, 2018, 46, 1061-1071.	1.0	5
53	Existence and design of functional observers for Takagi-Sugeno systems with time delay. , 2019, , .		5
54	Vehicle longitudinal force estimation using adaptive neural network nonlinear observer. International Journal of Vehicle Design, 2019, 79, 205.	0.1	5

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55	Delay-dependent H^∞ dynamic observers for non-linear systems with multiple time-varying delays. Transactions of the Institute of Measurement and Control, 2022, 44, 2998-3015.	1.1	5
56	First and High-Order Sliding Mode Observers to Estimate the Contact Forces. , 0, , .		4
57	Robust observer for prevention of vehicle rollover. , 2009, , .		4
58	FPGA implementation of configurable three-Phase SPWM module. , 2012, , .		4
59	A robust control method for a DC motor-based photovoltaic pumping. , 2013, , .		4
60	H ∞ ; robust observer-based control for vehicle rollover. , 2014, , .		4
61	FPGA based control of a PWM inverter by the third harmonic injection technique for maximizing DC bus utilization. , 2015, , .		4
62	Model-free observer for state estimation applied to a quadrotor. , 2015, , .		4
63	Control of three-level NPC inverter based grid connected PV system. , 2015, , .		4
64	Vehicle online parameter estimation using a nonlinear adaptive observer. , 2016, , .		4
65	Design and Control of Standalone Wind Powered Water Pumping System. , 2018, , .		4
66	Hardware implementation of new irradiance equalization algorithm for reconfigurable PV architecture on a FPGA platform. , 2019, , .		4
67	Estimation of Contact Forces of a Four-Wheel Steering Electric Vehicle by Differential Sliding Mode Observer. AIP Conference Proceedings, 2008, , .	0.3	3
68	Decentralized static output feedback fuzzy control design for nonlinear interconnected networked control systems. , 2013, , .		3
69	Tire force and wheel torque estimation using high gain observer. , 2015, , .		3
70	Energy-to-peak performance of motorcycle lateral dynamic study. , 2016, , .		3
71	Control of Grid Connected Photovoltaic System Using Three-Level T-Type Inverter. International Journal of Emerging Electric Power Systems, 2016, 17, 377-384.	0.6	3
72	Using a coupled inductor controlled by fuzzy logic to improve the efficiency of a Buck converter in a PV system. E3S Web of Conferences, 2017, 22, 00001.	0.2	3

#	ARTICLE	IF	CITATIONS
73	Fuzzy-Variable Gain Super Twisting Algorithm Control Design for Direct-Drive PMSG Wind Turbines. , 2019, , .		3
74	On the Design of Functional Observers for Multi-Delayed Linear Systems. , 2021, , .		3
75	Observer-based H ∞ ; fuzzy control for vehicle active suspension. , 2008, , .		2
76	Characterization tool for photovoltaic power sources. , 2010, , .		2
77	Differential Estimators for State Observers in Vehicle Dynamics: HOSM and ALIEN. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 2184-2189.	0.4	2
78	Design of unknown inputs robust fuzzy observer for lane departure detection. International Journal of Vehicle Design, 2011, 56, 186.	0.1	2
79	H ∞ & H ∞ ; fuzzy Networked control for vehicle lateral dynamics. , 2013, , .		2
80	Robust H ∞ reliable networked static output feedback control design for vehicle dynamics stability. , 2014, , .		2
81	A GRNN Based Algorithm for Output Power Prediction of a PV Panel. Lecture Notes in Networks and Systems, 2018, , 291-298.	0.5	2
82	Intelligent Controller Design for MIMO Systems using Model-Free Control and LMI Approaches Applied on a Twin Rotor MIMO System. , 2019, , .		2
83	Micro-grid reactive power sharing using an adaptive virtual impedance technique. , 2019, , .		2
84	H ∞ Observer-Based Control for Uncertain Takagi-Sugeno Fuzzy Systems with Application to a four-Tank Process. , 2021, , .		2
85	Neural network augmented backstepping control for uncertain nonlinear systems - application to laboratory antilock braking system. International Journal of Applied Nonlinear Science, 2016, 2, 270.	0.2	2
86	Driver attention warning system based on a fuzzy representation of the vehicle model. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 6260-6265.	0.4	1
87	Methods engineering for designing a didactic low cost small wind turbine generator. , 2012, , .		1
88	Fault Diagnosis of Electrical Power Systems Using Soft Computing. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 863-868.	0.4	1
89	Modeling and robust control of a wind Generator. , 2014, , .		1
90	Model-free observer for MIMO systems. , 2015, , .		1

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91	Radial basis function neural network-based adaptive control of uncertain nonlinear systems. , 2015, , .		1
92	A robust stabilization method for a saturated LPV system : application to the lateral dynamics of vehicles. * *This work was supported by the Conseil Regional de Picardie and the FEDER within the framework of the project SYSCOVI. IFAC-PapersOnLine, 2017, 50, 3732-3737.	0.5	1
93	Induction Machine Parameter Identification Using LMS Algorithm Associated with a Nonlinear Adaptive Observer. Lecture Notes in Electrical Engineering, 2019, , 597-606.	0.3	1
94	An Intelligent Irradiance Equalization Approach based on Fuzzy Logic for Small Reconfigurable PV Architecture. , 2019, , .		1
95	Design of unknown input fuzzy observer for vehicle dynamics estimation with road geometry consideration. , 2011, , .		1
96	Low cost X4 platform to study control algorithms. , 2014, , .		0
97	Vehicle dynamics decentralized networked control. , 2015, , .		0
98	A robust output feedback control technique for improving vehicle lateral dynamic behavior. , 2016, , .		0
99	FDD and FTC for ramp-type actuator fault using intelligent-output-estimator. , 2016, , .		0
100	H2 ∞ static output feedback control for vehicle chassis stability with input saturation. , 2017, , .		0
101	Neutral Point Voltage Balancing Control and Quality power Improvement of PV System Based on Dual Three-level Stage Conversion. , 2018, , .		0
102	Robust H_{∞} Output Feedback Controller of Motorcycle Dynamic Model. , 2018, , .		0
103	A Method for Parameter Extraction of Photovoltaic Modules. Lecture Notes in Electrical Engineering, 2019, , 438-446.	0.3	0
104	Design of a Functional Observer for Fuzzy Delayed Systems with Unknown Input. , 2022, , .		0