

Dipankar Deb

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

115
papers

958
citations

17
h-index

26
g-index

123
ext. papers

1,262
ext. citations

2.7
avg, IF

5.64
L-index

#	Paper	IF	Citations
115	Machine Intelligent Hybrid Methods Based on Kalman Filter and Wavelet Transform for Short-Term Wind Speed Prediction. <i>Wind</i> , 2022 , 2, 37-50		1
114	Signal-Dependent Uncertainty Compensation: A General Framework. <i>Studies in Systems, Decision and Control</i> , 2022 , 83-98	0.8	
113	Adaptive Compensation at High Angles of Attack. <i>Studies in Systems, Decision and Control</i> , 2022 , 65-81	0.8	
112	Synthetic Jet Actuators and Arrays: Modeling and Control. <i>Studies in Systems, Decision and Control</i> , 2022 , 11-41	0.8	0
111	NN-Based High-Order Adaptive Compensation Framework for Signal Dependencies. <i>Studies in Systems, Decision and Control</i> , 2022 , 99-111	0.8	
110	Adaptive Compensation at Low Angles of Attack: Nonlinear Aircraft Model. <i>Studies in Systems, Decision and Control</i> , 2022 , 43-64	0.8	
109	Numerical simulations of potential-induced degradation 2022 , 85-108		
108	Thin-film photovoltaics 2022 , 19-37		0
107	Performance-limiting issues in TFPVs 2022 , 39-57		
106	Yield increase through soiling prevention 2022 , 59-72		
105	Water-free automated solar-panel cleaning 2022 , 73-84		
104	PID for multicrystalline soiled panels: a forecasting-based approach 2022 , 109-132		
103	Optimization of on-site PID detection methods 2022 , 133-149		
102	Introduction to photovoltaics 2022 , 1-18		
101	Biplane Trajectory Tracking Using Hybrid Controller Based on Backstepping and Integral Terminal Sliding Mode Control. <i>Drones</i> , 2022 , 6, 58	5.4	5
100	Observer based rotor failure compensation for biplane quadrotor with slung load. <i>Ain Shams Engineering Journal</i> , 2022 , 13, 101748	4.4	6
99	Functionality Analysis of Electric Actuators in Renewable Energy Systems: A Review. <i>Sensors</i> , 2022 , 22, 4273	3.8	0

98	Lithium-Ion Battery Prognostics based on Support Vector Regression and Time-Series Analysis 2021		1
97	Fractional Model Predictive and Adaptive Fractional Model Predictive Controller Design. <i>Intelligent Systems Reference Library</i> , 2021 , 63-82	0.8	
96	Modeling, Stability and Fractional Control of Single Flexible Link Robotic Manipulator. <i>Intelligent Systems Reference Library</i> , 2021 , 83-98	0.8	2
95	Improved Fractional Model Selection and Control with Experimental Validation. <i>Intelligent Systems Reference Library</i> , 2021 , 99-120	0.8	1
94	Model Reference Adaptive Fractional Order Controller Design. <i>Intelligent Systems Reference Library</i> , 2021 , 121-135	0.8	
93	Dynamic Stability of an Electric Monowheel System Using LQG-Based Adaptive Control. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 9766	2.6	4
92	PI Plus Feed-Forward Control of Water Submersible Pump Specially Used in Ground Water Shortage Areas. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 357-365	0.4	
91	Probability Distribution Functions for Short-Term Wind Power Forecasting. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 60-69	0.4	0
90	Feasibility Study of CSP Tower with Receiver Installed at Base. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 250-262	0.4	
89	FOPID Controller Design for IO Model of Robotic Systems. <i>Intelligent Systems Reference Library</i> , 2021 , 45-61	0.8	1
88	Disturbance Observer-Based Backstepping Control of Tail-Sitter UAVs. <i>Actuators</i> , 2021 , 10, 119	2.4	8
87	Kalman Filter and Variants for Estimation in 2DOF Serial Flexible Link and Joint Using Fractional Order PID Controller. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6693	2.6	5
86	Fractional Modeling of Robotic Systems. <i>Intelligent Systems Reference Library</i> , 2021 , 19-43	0.8	2
85	WLAN-Based Smart Door Closer Design with Image Classification. <i>Services and Business Process Reengineering</i> , 2021 , 43-70	0.3	0
84	System Design for the Detection of Humans Trapped in Snow. <i>Services and Business Process Reengineering</i> , 2021 , 31-42	0.3	
83	A Novel Linear Optimization Method for Section Location of Single-Phase Ground Faults in Neutral Noneffectively Grounded Systems. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-10	5.2	1
82	Wind Turbine Gearbox Anomaly Detection based on Adaptive Threshold and Twin Support Vector Machines. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	20
81	Robotic System Configuration with Localization, Path Planning, and Computer Vision. <i>Services and Business Process Reengineering</i> , 2021 , 71-95	0.3	

80	Machine intelligent and deep learning techniques for large training data in short-term wind speed and ramp event forecasting. <i>International Transactions on Electrical Energy Systems</i> , 2021 , 31, e12818	2.2	12
79	A Reference Model Assisted Adaptive Control Structure for Maglev Transportation System. <i>Electronics (Switzerland)</i> , 2021 , 10, 332	2.6	3
78	Modeling and Control of Robotic Manipulators: A Fractional Calculus Point of View. <i>Arabian Journal for Science and Engineering</i> , 2021 , 46, 9541-9552	2.5	5
77	Machine intelligent forecasting based penalty cost minimization in hybrid wind-battery farms. <i>International Transactions on Electrical Energy Systems</i> , 2021 , 31, e13010	2.2	9
76	Multiple Drone Navigation and Formation Using Selective Target Tracking-Based Computer Vision. <i>Electronics (Switzerland)</i> , 2021 , 10, 2125	2.6	3
75	Design of a Peripheral Security Module Based on Exchange of Specific Data Rates. <i>Services and Business Process Reengineering</i> , 2021 , 19-30	0.3	
74	Bilateral Gaussian Wake Model Formulation for Wind Farms: A Forecasting based approach. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 127, 109873	16.2	21
73	Intelligent decision making device for residue incorporation in soil or biomass power plants. <i>Journal of Intelligent and Fuzzy Systems</i> , 2020 , 38, 6065-6074	1.6	4
72	A Review of Control-Oriented Bioelectrochemical Mathematical Models of Microbial Fuel Cells. <i>Processes</i> , 2020 , 8, 583	2.9	8
71	Hybrid machine intelligent wind speed forecasting models 2020 , 75-99		1
70	Robust observer-based adaptive control of blood glucose in diabetic patients. <i>International Journal of Control</i> , 2020 , 1-14	1.5	15
69	Wake management based life enhancement of battery energy storage system for hybrid wind farms. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 130, 109912	16.2	19
68	Supervised learning for forecasting in presence of wind wakes 2020 , 141-169		
67	Lidar assisted wake redirection in wind farms: A data driven approach. <i>Renewable Energy</i> , 2020 , 152, 484-493	8.1	13
66	Aerodynamic Studies on Non-Premixed Oxy-Methane Flames and Separated Oxy-Methane Cold Jets. <i>Processes</i> , 2020 , 8, 429	2.9	3
65	Adaptive Control of Single Population Single Chamber MFC. <i>Intelligent Systems Reference Library</i> , 2020 , 67-79	0.8	
64	BESS Life Enhancement for Hybrid Wind Farms. <i>Studies in Systems, Decision and Control</i> , 2020 , 109-130	0.8	
63	Control Applications in Hybrid Wind Farms. <i>Studies in Systems, Decision and Control</i> , 2020 , 77-108	0.8	1

62	Model Reference Adaptive Control of Microbial Fuel Cells. <i>Intelligent Systems Reference Library</i> , 2020 , 109-121	0.8	5
61	Introduction to Adaptive Control. <i>Intelligent Systems Reference Library</i> , 2020 , 53-65	0.8	7
60	Adaptive Control of Single Chamber Two-Population MFC. <i>Intelligent Systems Reference Library</i> , 2020 , 81-89	0.8	5
59	Fuzzy-Based Decision-Making in Hybrid Wind Farms. <i>Studies in Systems, Decision and Control</i> , 2020 , 59-76	0.8	1
58	Fuzzy TOPSIS and fuzzy COPRAS based multi-criteria decision making for hybrid wind farms. <i>Energy</i> , 2020 , 202, 117755	7.9	54
57	An augmented subcutaneous type 1 diabetic patient modelling and design of adaptive glucose control. <i>Journal of Process Control</i> , 2020 , 86, 94-105	3.9	19
56	Integrated Peripheral Security System for Different Areas Based on Exchange of Specific Data Rates. <i>Wireless Personal Communications</i> , 2020 , 111, 1355-1366	1.9	6
55	Online Delay Estimation and Adaptive Compensation in Wireless Networked System: An Embedded Control Design. <i>International Journal of Control, Automation and Systems</i> , 2020 , 18, 856-866	2.9	9
54	Design of Smart Door Closer System with Image Classification over WLAN. <i>Wireless Personal Communications</i> , 2020 , 111, 1941-1953	1.9	7
53	Wind Turbine Gearbox Condition Monitoring Based on Class of Support Vector Regression Models and Residual Analysis. <i>Sensors</i> , 2020 , 20,	3.8	11
52	An RSSI-Based Localization, Path Planning and Computer Vision-Based Decision Making Robotic System. <i>Electronics (Switzerland)</i> , 2020 , 9, 1326	2.6	9
51	Assessment of Short Rectangular-Tab Actuation of Supersonic Jet Mixing. <i>Actuators</i> , 2020 , 9, 72	2.4	3
50	Mathematical Modelling. <i>Intelligent Systems Reference Library</i> , 2020 , 11-28	0.8	1
49	Exact Linearization of Two Chamber Microbial Fuel Cell. <i>Intelligent Systems Reference Library</i> , 2020 , 91-98	0.8	1
48	Adaptive and Intelligent Control of Microbial Fuel Cells. <i>Intelligent Systems Reference Library</i> , 2020 ,	0.8	5
47	Microbial Fuel Cell Laboratory Setup. <i>Intelligent Systems Reference Library</i> , 2020 , 99-108	0.8	1
46	Multi-Criteria Decision Making Approach for Hybrid Operation of Wind Farms. <i>Symmetry</i> , 2019 , 11, 675	2.7	15
45	Nonlinear adaptive control of microbial fuel cell with two species in a single chamber. <i>Journal of Power Sources</i> , 2019 , 434, 226739	8.9	9

44	Wake Management in Wind Farms: An Adaptive Control Approach. <i>Energies</i> , 2019 , 12, 1247	3.1	17
43	Numerical simulation of potential induced degradation (PID) in different thin-film solar cells using SCAPS-1D. <i>Solar Energy</i> , 2019 , 188, 353-360	6.8	20
42	Hybrid machine intelligent SVR variants for wind forecasting and ramp events. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 108, 369-379	16.2	73
41	On selection of improved fractional model and control of different systems with experimental validation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019 , 79, 104902	3.7	18
40	Contributions, Arguments, and Dealing with Criticisms. <i>Intelligent Systems Reference Library</i> , 2019 , 67-77	0.8	0
39	Introduction: What Is Research?. <i>Intelligent Systems Reference Library</i> , 2019 , 1-7	0.8	0
38	Research Management, Planning and Collaboration. <i>Intelligent Systems Reference Library</i> , 2019 , 79-87	0.8	0
37	Technical Writing and Publishing. <i>Intelligent Systems Reference Library</i> , 2019 , 49-66	0.8	1
36	Ethics in Engineering Research. <i>Intelligent Systems Reference Library</i> , 2019 , 43-48	0.8	0
35	An Automated Alcoholism Detection Using Orthogonal Wavelet Filter Bank. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 473-483	0.4	9
34	Bibliometrics and Research Quality. <i>Intelligent Systems Reference Library</i> , 2019 , 95-105	0.8	2
33	In-vehicle Adaptive Traffic Collision Impact System for Next-Generation Traffic. <i>Lecture Notes in Intelligent Transportation and Infrastructure</i> , 2019 , 77-87	0.3	1
32	Literature Review and Technical Reading. <i>Intelligent Systems Reference Library</i> , 2019 , 9-21	0.8	0
31	Attributions and Citations: Giving Credit Wherever Due. <i>Intelligent Systems Reference Library</i> , 2019 , 23-36	0.8	0
30	Building Intellectual Property Rights. <i>Intelligent Systems Reference Library</i> , 2019 , 37-42	0.8	0
29	Feasibility study of power generation from agricultural residue in comparison with soil incorporation of residue. <i>Renewable Energy</i> , 2019 , 134, 416-425	8.1	10
28	Parameter Validation to Ascertain Voltage of Li-ion Battery Through Adaptive Control. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 21-31	0.4	6
27	Wavelet Transform and Variants of SVR with Application in Wind Forecasting. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 501-511	0.4	9

26	A Novel Approach Towards a Low Cost Peripheral Security System Based on Specific Data Rates. <i>Wireless Personal Communications</i> , 2018 , 99, 1625-1637	1.9	8
25	Parametrized control-oriented mathematical model and adaptive backstepping control of a single chamber single population microbial fuel cell. <i>Journal of Power Sources</i> , 2018 , 396, 599-605	8.9	36
24	Blood glucose regulation in type 1 diabetic patients: an adaptive parametric compensation control-based approach. <i>IET Systems Biology</i> , 2018 , 12, 219-225	1.4	33
23	An automated diagnosis of depression using three-channel bandwidth-duration localized wavelet filter bank with EEG signals. <i>Cognitive Systems Research</i> , 2018 , 52, 508-520	4.8	68
22	Review of yield increase of solar panels through soiling prevention, and a proposed water-free automated cleaning solution. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 82, 3306-3313	16.2	66
21	Adaptive Backstepping Control of Single Chamber Microbial Fuel Cell. <i>IFAC-PapersOnLine</i> , 2018 , 51, 319-322	3	
20	A novel three-band orthogonal wavelet filter bank method for an automated identification of alcoholic EEG signals. <i>Applied Intelligence</i> , 2017 , 48, 1368	4.9	17
19	Adaptive backstepping control scheme with integral action for quanser 2-dof helicopter 2017 ,		16
18	Homing missile guidance using LOS rate and relative range measurement 2015 ,		3
17	Synthetic jet actuator based adaptive neural network control of nonlinear fixed pitch wind turbine blades 2013 ,		10
16	A novel control strategy to simulate solar panels 2012 ,		5
15	Solar panel simulation using adaptive control 2012 ,		10
14	A new nonlinear guidance law formulation for proportional navigation guidance 2012 ,		2
13	Adaptive failure compensation for coaxial rotor helicopter under propeller failure 2012 ,		17
12	Disturbance Observer based Sliding Mode Control for Proportional Navigation Guidance. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 163-168		8
11	Adaptive Failure Compensation of a Single Main-Rotor Helicopter. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 133-138		3
10	A new adaptive formation control scheme for a constellation of satellites with parametric uncertainties 2011 ,		2
9	Modeling of a wind turbine farm in presence of wake interactions 2011 ,		9

8	Nonlinear adaptive control of vehicular radar servo systems with system and sensor uncertainties 2011,		3
7	Adaptive Synthetic Jet Actuator Compensation for A Nonlinear Aircraft Model at Low Angles of Attack. <i>IEEE Transactions on Control Systems Technology</i> , 2008 , 16, 983-995	4.8	40
6	Modeling and multivariable adaptive control of aircraft with synthetic jet actuators 2008,		6
5	High-order design of adaptive inverses for signal-dependent actuator nonlinearities 2008,		8
4	Adaptive Compensation Control of Synthetic Jet Actuator Arrays for Airfoil Virtual Shaping. <i>Journal of Aircraft</i> , 2007 , 44, 616-626	1.6	38
3	An adaptive inverse compensation scheme for signal-dependent actuator nonlinearities 2007,		9
2	An Adaptive Inverse Control Scheme for Synthetic Jet Actuator Arrays 2005,		20
1	Adaptive backstepping controller design of quadrotor biplane for payload delivery. <i>IET Intelligent Transport Systems</i> ,	2.4	7