Sukumar Mishra

List of Publications by Citations

290 papers	6,014 citations	38 h-index	70 g-index
396 ext. papers	7,922 ext. citations	4.5 avg, IF	6.71 L-index

#	Paper	IF	Citations
290	Detection and Classification of Power Quality Disturbances Using S-Transform and Probabilistic Neural Network. *IEEE Transactions on Power Delivery*, **2008**, 23, 280-287	4.3	305
289	A hybrid least square-fuzzy bacterial foraging strategy for harmonic estimation. *IEEE Transactions on Evolutionary Computation*, **2005**, 9, 61-73	15.6	283
288	Maiden Application of Bacterial Foraging-Based Optimization Technique in Multiarea Automatic Generation Control. *IEEE Transactions on Power Systems*, **2009**, 24, 602-609	7	270
287	Performance comparison of several classical controllers in AGC for multi-area interconnected thermal system. *International Journal of Electrical Power and Energy Systems*, **2011**, 33, 394-401	5.1	251
286	. *IEEE Transactions on Industrial Informatics*, **2016**, 12, 1005-1016	11.9	224
285	Permanent Magnet Synchronous Generator-Based Standalone Wind Energy Supply System. *IEEE Transactions on Sustainable Energy*, **2011**, 2, 361-373	8.2	192
284	Bacteria Foraging-Based Solution to Optimize Both Real Power Loss and Voltage Stability Limit. *IEEE Transactions on Power Systems*, **2007**, 22, 240-248	7	172
283	Bacterial Foraging Technique-Based Optimized Active Power Filter for Load Compensation. *IEEE Transactions on Power Delivery*, **2007**, 22, 457-465	4.3	157
282	Improving Stability of a DFIG-Based Wind Power System With Tuned Damping Controller. *IEEE Transactions on Energy Conversion*, **2009**, 24, 650-660	5.4	122
281	Empirical-Mode Decomposition With Hilbert Transform for Power-Quality Assessment. *IEEE Transactions on Power Delivery*, **2009**, 24, 2159-2165	4.3	121
280	Small-Signal Stability Analysis of a DFIG-Based Wind Power System Under Different Modes of Operation. *IEEE Transactions on Energy Conversion*, **2009**, 24, 972-982	5.4	110
279	Maximizing the Power Generation of a Partially Shaded PV Array. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2016**, 4, 626-637	5.6	103
278	Classification of power system disturbances using a fuzzy expert system and a Fourier linear combiner. *IEEE Transactions on Power Delivery*, **2000**, 15, 472-477	4.3	99
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276	TS-fuzzy-controlled active power filter for load compensation. *IEEE Transactions on Power Delivery*, **2006**, 21, 1459-1465	4.3	97
275	Dynamic Power Management and Control of a PV PEM Fuel-Cell-Based Standalone ac/dc Microgrid Using Hybrid Energy Storage. *IEEE Transactions on Industry Applications*, **2018**, 54, 526-538	4.3	96
274	Automatic generation control of a multi area hydrothermal system using reinforced learning neural network controller. *International Journal of Electrical Power and Energy Systems*, **2011**, 33, 1101-1108	5.1	95

273	Automatic Classification of Power Quality Events Using Balanced Neural Tree. *IEEE Transactions on Industrial Electronics*, **2014**, 61, 521-530	8.9	91
272	A Stealth Cyber-Attack Detection Strategy for DC Microgrids. *IEEE Transactions on Power Electronics*, **2019**, 34, 8162-8174	7.2	87
271	A Distributed Finite-Time Secondary Average Voltage Regulation and Current Sharing Controller for DC Microgrids. *IEEE Transactions on Smart Grid*, **2019**, 10, 282-292	10.7	81
270	A radial basis function neural network controller for UPFC. *IEEE Transactions on Power Systems*, **2000**, 15, 1293-1299	7	79
269	Exploring frequency control capability of a PV system in a hybrid PV-rotating machine-without storage system. *International Journal of Electrical Power and Energy Systems*, **2014**, 60, 258-267	5.1	76
268	An Adaptive Event-Triggered Communication-Based Distributed Secondary Control for DC Microgrids. *IEEE Transactions on Smart Grid*, **2018**, 9, 6674-6683	10.7	67
267	Power Quality Event Classification Under Noisy Conditions Using EMD-Based De-Noising Techniques. *IEEE Transactions on Industrial Informatics*, **2014**, 10, 1044-1054	11.9	66
266	A Seamless Control Methodology for a Grid Connected and Isolated PV-Diesel Microgrid. *IEEE Transactions on Power Systems*, **2013**, 28, 4393-4404	7	61
265	Design of controller and communication for frequency regulation of a smart microgrid. *IET Renewable Power Generation*, **2012**, 6, 248	2.9	60
264	Neural-network-based adaptive UPFC for improving transient stability performance of power system. *IEEE Transactions on Neural Networks*, **2006**, 17, 461-70		58
263	Transmission Loss Reduction Based on FACTS and Bacteria Foraging Algorithm. *Lecture Notes in Computer Science*, **2006**, 222-231	0.9	57
262	On Detection of False Data in Cooperative DC Microgrids A Discordant Element Approach. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 6562-6571	8.9	56
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259	Application of neuro-fuzzy scheme to investigate the winding insulation paper deterioration in oil-immersed power transformer. *International Journal of Electrical Power and Energy Systems*, **2013**, 53, 256-271	5.1	47
258	Event-Triggered Communication Based Distributed Control Scheme for DC Microgrid. *IEEE Transactions on Power Systems*, **2018**, 33, 5583-5593	7	46
257	Storage Free Smart Energy Management for Frequency Control in a Diesel-PV-Fuel Cell-Based Hybrid AC Microgrid. *IEEE Transactions on Neural Networks and Learning Systems*, **2016**, 27, 1657-71	10.3	43
256	Hybrid least-square adaptive bacterial foraging strategy for harmonic estimation. *IET Generation, Transmission and Distribution*, **2005**, 152, 379		42

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234	Distributed Screening of Hijacking Attacks in DC Microgrids. *IEEE Transactions on Power Electronics*, **2020**, 35, 7574-7582	7.2	25
233	Application of Probabilistic Neural Network in Fault Diagnosis of Wind Turbine Using FAST, TurbSim and Simulink. *Procedia Computer Science*, **2015**, 58, 186-193	1.6	24
232	Improving the Small Signal Stability of a PV-DE-Dynamic Load-Based Microgrid Using an Auxiliary Signal in the PV Control Loop. *IEEE Transactions on Power Systems*, **2015**, 30, 166-176	7	24
231	Damping of multimodal power system oscillations by FACTS devices using non-linear Takagi-Sugeno fuzzy controller. *International Journal of Electrical Power and Energy Systems*, **2003**, 25, 481-490	5.1	24
230	Fuzzy reinforcement learning based intelligent classifier for power transformer faults. *ISA Transactions*, **2020**, 101, 390-398	5.5	23
229	Investigation on July 2012 Indian blackout **2013**,		22
228	A Multifunctional GPV System Using Adaptive Observer Based Harmonic Cancellation Technique. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 1347-1357	8.9	22
227	Coordinated tuning of PSS and TCSC to improve Hopf Bifurcation margin in multimachine power system by a modified Bacteria Foraging Algorithm. *International Journal of Electrical Power and Energy Systems*, **2015**, 66, 97-109	5.1	21
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196	Photovoltaic system based transient mitigation and frequency regulation **2012**,		11
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179	Extreme learning machine based fault diagnosis of power transformer using IEC TC10 and its related data **2015**,		8
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175	Detection and classification of voltage sag causes based on empirical mode decomposition **2011**,		8
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166	On Harmonic Convexity (Concavity) and Application to Non-Linear Programming Problems. *Opsearch*, **2003**, 40, 42-51	1.6	7

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162	Disturbance-Observer-Based Frequency Regulation Scheme for Low-Inertia Microgrid Systems. *IEEE Systems Journal*, **2020**, 14, 782-792	4.3	7
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155	Control and implementation of a standalone solar photo-voltaic hybrid system **2015**,		6
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#	Title	IF	Cites
147	**2011**,		5
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145	AGC for distributed generation **2008**,		5
144	Optimization of a Distribution Static Compensator by Bacterial Foraging Technique **2006**,		5
143	Power Flow Control of a Solid Oxide Fuel-Cell for Grid Connected Operation **2006**,		5
142	A Novel AC Current Sensorless Hysteresis Control for Grid-Tie Inverters. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2020**, 67, 2577-2581	3.5	4
141	CMPVI-Based MIDO Scheme Under SSE for Optimum Energy Balance and Reduced ROI. *IEEE Transactions on Sustainable Energy*, **2018**, 9, 1318-1327	8.2	4
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139	Dual mode operational control of single stage PV-battery based microgrid **2018**,		4
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135	Optimizing Voltage Stability Limit and Real Power Loss in a Large Power System using Bacteria Foraging **2006**,		4
134	Genetic optimization of a self organizing fuzzy-neural network for load forecasting		4
133	Design of a Fuzzy PI Controller for Power System Applications. *Journal of Intelligent and Fuzzy Systems*, **1995**, 3, 155-163	1.6	4
132	A Normalized Adaptive Filter for Enhanced Optimal Operation of Grid-Interfaced PV System. *IEEE Transactions on Industry Applications*, **2021**, 57, 1715-1724	4.3	4
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125	Hybrid Islanding Detection Method based on ROCOF over Reactive Power and d-Axis Current Injection **2018**,		4
124	Power system frequency stabiliser for modern power systems. *IET Generation, Transmission and Distribution*, **2018**, 12, 1961-1969	2.5	4
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120	Tertiary load voltage control in an interconnected DC microgrid with energy hub **2017**,		3
119	Voltage control of a DC microgrid with double-input converter in a multi-PV scenario using PLC **2016**,		3
118	**2016**,		3
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116	Real and reactive power control of solar grid-tie inverter under distorted grid conditions **2018**,		3
115	Robust state feedback current controller with harmonic compensation for single stage grid connected PV inverter with LCL filter **2018**,		3
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113	Neural Network based Control of SG based Standalone Generating System with Energy Storage for Power Quality Enhancement. *Journal of the Institution of Engineers (India): Series B*, **2017**, 98, 405-413	0.9	3
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92	Standalone BLDC based solar air cooler with MPPT tracking for improved efficiency **2016**,		2
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88	A double derivative based droop controller for improved power sharing in inverter based autonomous microgrid **2018**,		2
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