Sakti Prasad Ghoshal

List of Publications by Year
in descending order

79 papers	1,026 citations	471509 17 h-index	477307 29 g-index
80 all docs	80 docs citations	80 times ranked	611 citing authors

#	Article	IF	Citations
1	Optimal designs of nulling resistor compensation and a robust bias‐based op‐amp circuit using an evolutionary approach. IET Circuits, Devices and Systems, 2019, 13, 667-678.	1.4	0
2	Optimal Design of Linear Antenna Arrays of Dipole Elements Using Flower Pollination Algorithm. IETE Journal of Research, 2019, 65, 694-701.	2.6	8
3	Radiation Performance Characteristic Optimization of Time-Modulated Circular Antenna Arrays. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2018, 35, 190-204.	3.2	5
4	Evolutionary algorithms based synthesis of low sidelobe hexagonal arrays. Swarm and Evolutionary Computation, 2018, 38, 139-157.	8.1	2
5	Side-Lobe Level Reduction of Concentric Array Antennas Using Craziness Based Particle Swarm Optimization Technique. , 2018, , .		2
6	Opposition‐based BAT algorithm for optimal design of circular and concentric circular arrays with improved far‐field radiation characteristics. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2017, 30, e2087.	1.9	11
7	Simultaneous Improvement of array factor directivity and side lobe level of time‐modulated linear antenna arrays using opposition‐based harmony search algorithm. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2017, 30, e2086.	1.9	4
8	Null Placement in Time-Modulated Linear Antenna Arrays of Dipole Element. IETE Journal of Research, 2017, 63, 403-412.	2.6	3
9	Optimal array factor radiation pattern synthesis for linear antenna array using cat swarm optimization: validation by an electromagnetic simulator. Frontiers of Information Technology and Electronic Engineering, 2017, 18, 570-577.	2.6	9
10	Non-uniform single-ring antenna array design using wavelet mutation based novel particle swarm optimization technique. Computers and Electrical Engineering, 2017, 61, 151-172.	4.8	9
11	Optimal Design of Single and Multi-ring Planar Array Antenna Using Simplex-PSO. IETE Journal of Research, 2017, 63, 881-892.	2.6	8
12	Parametric Identification with Performance Assessment of Wiener Systems Using Brain Storm Optimization Algorithm. Circuits, Systems, and Signal Processing, 2017, 36, 3143-3181.	2.0	18
13	Directivity improvement and optimal far field pattern of time modulated concentric circular antenna array using hybrid evolutionary algorithms. International Journal of Microwave and Wireless Technologies, 2017, 9, 177-190.	1.9	5
14	Optimal design of 5.5 GHz CMOS LNA using hybrid fitness based adaptive De with PSO. , 2017, , .		6
15	Generalization of Directivity Expressions for Antenna Arrays. IEEE Transactions on Antennas and Propagation, 2017, 65, 915-919.	5.1	7
16	Reduction of sidelobes of the power pattern of antenna array. , 2017, , .		0
17	Analysis for optimal pattern synthesis of time modulated concentric circular antenna array using memetic firefly algorithm. Memetic Computing, 2016, 8, 63-82.	4.0	7
18	Hybrid GSADE algorithm for optimization of far-field radiation pattern of circular arrays. Annales Des Telecommunications/Annals of Telecommunications, 2016, 71, 61-71.	2.5	4

#	Article	IF	Citations
19	Improvement in various radiation characteristics of time modulated linear antenna arrays using evolutionary algorithms. Journal of Experimental and Theoretical Artificial Intelligence, 2016, 28, 151-180.	2.8	5
20	CRPSOWM for Linear Antenna Arrays with Improved SLL and Directivity. IETE Journal of Research, 2015, 61, 109-120.	2.6	13
21	PSOIIW approach for nulling by RF switch in time modulated linear antenna arrays. , 2015, , .		3
22	Directivity and SLL optimization of time modulated concentric circular antenna array synthesis: an hybrid evolutionary approach. International Journal of Machine Learning and Cybernetics, 2015, 6, 819-835.	3.6	2
23	Circular and Concentric Circular Antenna Array Synthesis Using Cat Swarm Optimization. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2015, 32, 204-217.	3.2	33
24	Optimal Allocation of Distributed Generation and Shunt Capacitors for the Reduction of Total Voltage Deviation and Total Line Loss in Radial Distribution Systems Using Binary Collective Animal Behavior Optimization Algorithm. Electric Power Components and Systems, 2015, 43, 119-133.	1.8	30
25	A new hybridized backtracking search optimization algorithm with differential evolution for sidelobe suppression of uniformly excited concentric circular antenna arrays. International Journal of RF and Microwave Computer-Aided Engineering, 2015, 25, 262-268.	1.2	17
26	Pencil beam pattern synthesis of time-modulated concentric circular antenna array using PSO with Aging Leader and Challenger. Journal of Electromagnetic Waves and Applications, 2015, 29, 1610-1629.	1.6	12
27	GSAWM for beamforming and directivity of linear antenna arrays. , 2015, , .		4
28	Comparative Study of Circular and Hexagonal Antenna Array Synthesis Using Improved Particle Swarm Optimization. Procedia Computer Science, 2015, 45, 651-660.	2.0	28
29	Directivity maximization and optimal far-field pattern of time modulated linear antenna arrays using evolutionary algorithms. AEU - International Journal of Electronics and Communications, 2015, 69, 1800-1809.	2.9	16
30	Performance Comparison of Two Recently Proposed Adaptive Differential Evolution Algorithms on Space Only Low Sidelobe Synthesis Problem of Concentric Regular Hexagonal Antenna Arrays. Procedia Computer Science, 2015, 45, 635-643.	2.0	0
31	Multiobjective space-only synthesis of concentric regular hexagonal antenna arrays. , 2015, , .		0
32	Element Spacing Optimization of Low Sidelobe Concentric Hexagonal Antenna Arrays Using MOEA/D. Advances in Intelligent Systems and Computing, 2015, , 189-196.	0.6	1
33	Optimization of controller parameters for a DC attraction type levitation system by evolutionary technique. , 2014, , .		0
34	Optimized hyper beamforming of receiving linear antenna arrays using Firefly algorithm. International Journal of Microwave and Wireless Technologies, 2014, 6, 181-194.	1.9	23
35	Digital FIR filter design using fitness based hybrid adaptive differential evolution with particle swarm optimization. Natural Computing, 2014, 13, 55-64.	3.0	25
36	An efficient differential evolution with wavelet mutation algorithm for optimal IIR filter design. International Journal of Bio-Inspired Computation, 2014, 6, 350.	0.9	2

#	Article	IF	Citations
37	Interference suppression of linear antenna arrays with combined Backtracking Search Algorithm and Differential Evolution. , 2014, , .		3
38	Design of Optimal CMOS Inverter for Symmetric Switching Characteristics Using Firefly Algorithm with Wavelet Mutation. International Journal of Swarm Intelligence Research, 2014, 5, 29-64.	0.7	0
39	Optimized radii and excitations with concentric circular antenna array for maximum sidelobe level reduction using wavelet mutation based particle swarm optimization techniques. Telecommunication Systems, 2013, 52, 2015-2025.	2.5	20
40	Cat Swarm Optimization algorithm for optimal linear phase FIR filter design. ISA Transactions, 2013, 52, 781-794.	5.7	163
41	Design and simulation of FIR band pass and band stop filters using gravitational search algorithm. Memetic Computing, 2013, 5, 311-321.	4.0	30
42	Design of circular antenna arrays for the reduction of side lobe and first null beamwidth using BFO. , 2013, , .		3
43	A new design method using opposition-based BAT algorithm for IIR system identification problem. International Journal of Bio-Inspired Computation, 2013, 5, 99.	0.9	40
44	A Generalized Closed Form Expression of Directivity of Arbitrary Planar Antenna Arrays. IEEE Transactions on Antennas and Propagation, 2013, 61, 3909-3911.	5.1	22
45	Thinned concentric hexagonal antenna array synthesis using Craziness based Particle Swarm Optimization. , 2013, , .		0
46	Digital FIR Filter Design Using Hybrid Random Particle Swarm Optimization with Differential Evolution. International Journal of Computational Intelligence Systems, 2013, 6, 911.	2.7	8
47	Self Adaptive Differential Evolution based thinning of concentric circular antenna arrays. , 2013, , .		3
48	IPSO based performance comparison of optimum uniform and non-uniform spacing of circular antenna arrays. , 2013, , .		7
49	Optimized Hyper Beamforming of Linear Antenna Arrays Using Collective Animal Behaviour. Scientific World Journal, The, 2013, 2013, 1-13.	2.1	10
50	Design and Simulation of FIR High Pass Filter Using Gravitational Search Algorithm. Lecture Notes in Computer Science, 2013, , 547-557.	1.3	1
51	Evolutionary computation based optimization of controller parameters for an Electromagnetic Levitation System. , 2012, , .		3
52	Differential Evolution with Wavelet Mutation in Digital Finite Impulse Response Filter Design. Journal of Optimization Theory and Applications, 2012, 155, 315-324.	1.5	22
53	Optimal FIR band pass filter design using novel particle swarm optimization algorithm. , 2012, , .		7
54	IIR system identification using particle swarm optimization with constriction factor and inertia weight approach. , 2012, , .		3

#	Article	IF	Citations
55	Design of non-uniform concentric circular antenna arrays for side lobe reduction using the method of CRPSO. , 2012, , .		2
56	Novel particle swarm optimization for high pass FIR filter design. , 2012, , .		13
57	Craziness based Particle Swarm Optimization algorithm for FIR band stop filter design. Swarm and Evolutionary Computation, 2012, 7, 58-64.	8.1	66
58	Optimization of IIR high pass filter using craziness based particle swarm optimization technique. , 2012, , .		4
59	Digital stable IIR high pass filter optimization using PSO-CFIWA. , 2012, , .		3
60	Design of optimal linear phase FIR high pass filter using craziness based particle swarm optimization technique. Journal of King Saud University - Computer and Information Sciences, 2012, 24, 83-92.	3.9	51
61	Application of Differential Evolution with Best of Random Mutation Strategy on Asymmetric Location Only Synthesis of Broadside Circular Antenna Array. Lecture Notes in Computer Science, 2012, , 33-40.	1.3	2
62	Wide nulls control of linear antenna arrays using Craziness based Particle Swarm Optimization. , 2011, , .		4
63	Linear phase FIR high pass filter design using PSO-CFIWA with least square approach. , 2011, , .		4
64	Craziness Particle Swarm Optimization based synthesis of Concentric Circular Antenna Array with non-isotropic elements. , 2011, , .		0
65	NPSO based optimal deign and synthesis of Concentric Circular Antenna Array with non-isotropic elements. , 2011, , .		0
66	Improved Particle Swarm Optimization based synthesis of Concentric Circular Antenna Array with non-isotropic elements. , 2011, , .		2
67	Thinned concentric circular array antenna synthesis using Particle Swarm Optimization with Constriction Factor and Inertia Weight Approach. , 2011, , .		5
68	Thinned concentric circular array antennas synthesis using genetic algorithm. , 2011, , .		8
69	An effective power quality monitor placement method utilizing quantum-inspired particle swarm optimization. , 2011, , .		11
70	FIR band stop filter optimization by improved particle swarm optimization. , 2011, , .		7
71	Wide null control of symmetric linear antenna array using novel particle swarm optimization. International Journal of RF and Microwave Computer-Aided Engineering, 2011, 21, 376-382.	1.2	14
72	Application of evolutionary optimization techniques for finding the optimal set of concentric circular antenna array. Expert Systems With Applications, 2011, 38, 2942-2950.	7.6	41

#	Article	IF	Citations
73	Broadside radiation synthesis of Concentric Circular Antenna Array using Improved Particle Swarm Optimization. , 2011, , .		0
74	Design of Concentric Circular Antenna Array with Central Element Feeding Using Particle Swarm Optimization with Constriction Factor and Inertia Weight Approach and Evolutionary Programing Technique. Journal of Infrared, Millimeter, and Terahertz Waves, 2010, 31, 667.	2.2	51
75	Radiation pattern optimization for concentric circular antenna array with central element feeding using craziness-based particle swarm optimization. International Journal of RF and Microwave Computer-Aided Engineering, 2010, 20, 577-586.	1.2	53
76	Wide null control of linear antenna arrays using Particle Swarm Optimization. , 2010, , .		13
77	Particle Swarm Optimization with Constriction Factor Approach based synthesis of Concentric Circular Antenna Array for broadside radiation. , 2010, , .		0
78	Concentric circular antenna array synthesis using Particle Swarm Optimization with Constriction Factor Approach. , 2010, , .		1
79	Circular and Concentric Circular Antenna Array Synthesis Using Cat Swarm Optimization. , 0, .		1