

# Sakti Prasad Ghoshal

## List of Publications by Year in descending order

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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	Cat Swarm Optimization algorithm for optimal linear phase FIR filter design. ISA Transactions, 2013, 52, 781-794.	5.7	163
2	Craziness based Particle Swarm Optimization algorithm for FIR band stop filter design. Swarm and Evolutionary Computation, 2012, 7, 58-64.	8.1	66
3	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
4	Design of Concentric Circular Antenna Array with Central Element Feeding Using Particle Swarm Optimization with Constriction Factor and Inertia Weight Approach and Evolutionary Programming Technique. Journal of Infrared, Millimeter, and Terahertz Waves, 2010, 31, 667.	2.2	51
5	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
6	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
7	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
8	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
9	Design and simulation of FIR band pass and band stop filters using gravitational search algorithm. Memetic Computing, 2013, 5, 311-321.	4.0	30
10	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
11	Comparative Study of Circular and Hexagonal Antenna Array Synthesis Using Improved Particle Swarm Optimization. Procedia Computer Science, 2015, 45, 651-660.	2.0	28
12	Digital FIR filter design using fitness based hybrid adaptive differential evolution with particle swarm optimization. Natural Computing, 2014, 13, 55-64.	3.0	25
13	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
14	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
15	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
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Wide null control of linear antenna arrays using Particle Swarm Optimization. , 2010, , .		13
22	Novel particle swarm optimization for high pass FIR filter design. , 2012, , .		13
23	CRPSOWM for Linear Antenna Arrays with Improved SLL and Directivity. IETE Journal of Research, 2015, 61, 109-120.	2.6	13
24	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
25	An effective power quality monitor placement method utilizing quantum-inspired particle swarm optimization. , 2011, , .		11
26	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
27	Optimized Hyper Beamforming of Linear Antenna Arrays Using Collective Animal Behaviour. Scientific World Journal, The, 2013, 2013, 1-13.	2.1	10
28	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
29	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
30	Thinned concentric circular array antennas synthesis using genetic algorithm. , 2011, , .		8
31	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
32	Optimal Design of Single and Multi-ring Planar Array Antenna Using Simplex-PSO. IETE Journal of Research, 2017, 63, 881-892.	2.6	8
33	Optimal Design of Linear Antenna Arrays of Dipole Elements Using Flower Pollination Algorithm. IETE Journal of Research, 2019, 65, 694-701.	2.6	8
34	FIR band stop filter optimization by improved particle swarm optimization. , 2011, , .		7
35	Optimal FIR band pass filter design using novel particle swarm optimization algorithm. , 2012, , .		7
36	IPSO based performance comparison of optimum uniform and non-uniform spacing of circular antenna arrays. , 2013, , .		7

#	ARTICLE	IF	CITATIONS
37	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
38	Generalization of Directivity Expressions for Antenna Arrays. IEEE Transactions on Antennas and Propagation, 2017, 65, 915-919.	5.1	7
39	Optimal design of 5.5 GHz CMOS LNA using hybrid fitness based adaptive De with PSO. , 2017, , .		6
40	Thinned concentric circular array antenna synthesis using Particle Swarm Optimization with Constriction Factor and Inertia Weight Approach. , 2011, , .		5
41	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
42	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
43	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
44	Wide nulls control of linear antenna arrays using Crazyness based Particle Swarm Optimization. , 2011, , .		4
45	Linear phase FIR high pass filter design using PSO-CFIWA with least square approach. , 2011, , .		4
46	Optimization of IIR high pass filter using crazyness based particle swarm optimization technique. , 2012, , .		4
47	GSAWM for beamforming and directivity of linear antenna arrays. , 2015, , .		4
48	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
49	Simultaneous Improvement of array factor directivity and side lobe level of timeâ€modulated linear antenna arrays using oppositionâ€based harmony search algorithm. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2017, 30, e2086.	1.9	4
50	Evolutionary computation based optimization of controller parameters for an Electromagnetic Levitation System. , 2012, , .		3
51	IIR system identification using particle swarm optimization with constriction factor and inertia weight approach. , 2012, , .		3
52	Digital stable IIR high pass filter optimization using PSO-CFIWA. , 2012, , .		3
53	Design of circular antenna arrays for the reduction of side lobe and first null beamwidth using BFO. , 2013, , .		3
54	Self Adaptive Differential Evolution based thinning of concentric circular antenna arrays. , 2013, , .		3

#	ARTICLE	IF	CITATIONS
55	Interference suppression of linear antenna arrays with combined Backtracking Search Algorithm and Differential Evolution. , 2014, , .		3
56	PSOIIW approach for nulling by RF switch in time modulated linear antenna arrays. , 2015, , .		3
57	Null Placement in Time-Modulated Linear Antenna Arrays of Dipole Element. IETE Journal of Research, 2017, 63, 403-412.	2.6	3
58	Improved Particle Swarm Optimization based synthesis of Concentric Circular Antenna Array with non-isotropic elements. , 2011, , .		2
59	Design of non-uniform concentric circular antenna arrays for side lobe reduction using the method of CRPSO. , 2012, , .		2
60	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
61	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
62	Evolutionary algorithms based synthesis of low sidelobe hexagonal arrays. Swarm and Evolutionary Computation, 2018, 38, 139-157.	8.1	2
63	Side-Lobe Level Reduction of Concentric Array Antennas Using Crazyness Based Particle Swarm Optimization Technique. , 2018, , .		2
64	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
65	Concentric circular antenna array synthesis using Particle Swarm Optimization with Constriction Factor Approach. , 2010, , .		1
66	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
67	Circular and Concentric Circular Antenna Array Synthesis Using Cat Swarm Optimization. , 0, .		1
68	Design and Simulation of FIR High Pass Filter Using Gravitational Search Algorithm. Lecture Notes in Computer Science, 2013, , 547-557.	1.3	1
69	Particle Swarm Optimization with Constriction Factor Approach based synthesis of Concentric Circular Antenna Array for broadside radiation. , 2010, , .		0
70	Crazyness Particle Swarm Optimization based synthesis of Concentric Circular Antenna Array with non-isotropic elements. , 2011, , .		0
71	NPSO based optimal deign and synthesis of Concentric Circular Antenna Array with non-isotropic elements. , 2011, , .		0
72	Broadside radiation synthesis of Concentric Circular Antenna Array using Improved Particle Swarm Optimization. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
73	Thinned concentric hexagonal antenna array synthesis using Craziness based Particle Swarm Optimization. , 2013, , .		0
74	Optimization of controller parameters for a DC attraction type levitation system by evolutionary technique. , 2014, , .		0
75	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
76	Multiobjective space-only synthesis of concentric regular hexagonal antenna arrays. , 2015, , .		0
77	Reduction of sidelobes of the power pattern of antenna array. , 2017, , .		0
78	Optimal designs of nulling resistor compensation and a robust biasâ€based opâ€amp circuit using an evolutionary approach. IET Circuits, Devices and Systems, 2019, 13, 667-678.	1.4	0
79	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