

Research Publications in Journals

Sl. No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISBN/ISSN number
1	DPL-Based Novel Time Equalized CMOS Ternary-to-Binary Converter	Aloke Saha and Dipanakar Pal	ECE	<i>International Journal of Electronics (IJE), Taylor & Francis</i>	2019	Print ISSN: 0020-7217 Online ISSN: 1362-3060
2	Novel Self-Pipelining Approach for Speed-Power Efficient Reliable Binary Multiplication	Aloke Saha , Rahul Pal and Jayanta Ghosh	ECE	<i>Micro and Nanosystems, (Bentham Science Publication)</i>	2019	ISSN: 1876-4037 (Online) ISSN: 1876-4029 (Print)
3	Systematic Design Strategy for DPL-based Ternary Logic Circuit	Aloke Saha and Narendra Deo Singh	ECE	<i>International Journal of Nanoparticles (IJNP), Inderscience</i>	2019	ISSN online: 1753-2515 ISSN print: 1753-2507
4	“Lithium ion conductivity in Li ₂ O-P ₂ O ₅ -ZnO glass-ceramics,	Sanjib Bhattacharya, Amartya Acharya, AnindyaSundar Das, Koyel Bhattacharya and Chandan Kumar Ghosh ,	ECE	Journal of Alloys and Compounds	2019	ISSN: 0925-8388
5	“Suppression of Higher Order Modes of a Two Element Microstrip Array Using Open-ended Stubs”	Susmita Biswas, Chandan K. Ghosh , Santimoy Mandal, Goffar A. Sarkar,Soumen Banerjee and Durbadal Mandal,“	ECE	Progress In Electromagnetics Research Letter,	2019	ISSN, 1937-6480.
6	“A high selective tri-band bandpass filter with switchable passband states,”	Anjan Bandyopadhyay,Pankaj Sarkar, Tapas Mondal and RowdraGhatak	ECE	” <i>International Journal of Microwave and Wireless Technologies</i> ,	2019	ISSN: 1759-0787 (Print), 1759-0795 (Online)
7	Angular bend Half Mode Substrate Integrated Waveguide (HMSIW) based Band-Pass Filter with multiple transmission zeroes	Sourav Moitra · Ranjan Dey · Chandan Kumar Ghosh	ECE	<i>Wireless Personal Communication, Springer</i>	2019	ISSN:0929-6212(Print) / 1572-834X(Online)

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8	Performance of a partial discrete wavelet transform based path merging compression technique for wireless multimedia sensor networks	Rajib Banerjee , S. Chatterjee and S. Das Bit	ECE	<i>Wireless Personal Communication, Springer</i>	2019	0929-6212 (Print) 1572-834X (Online)
9	An energy efficient image compression scheme for wireless multimedia sensor network using curve fitting technique	Rajib Banerjee , S. Das Bit	ECE	Springer wireless networks	2019	1022-0038 (Print) 1572-8196 (Online)
10	Low-overhead video compression combining partial discrete cosine transform and compressed sensing in WMSNs	Rajib Banerjee and S. Das Bit	ECE	Springer wireless networks	2019	1022-0038 (Print) 1572-8196 (Online)
11	Complexity and periodicity of daily mean temperature and dew-point across India	Rajdeep Ray , Mofazzal Hossain Khondekar , Koushik Ghosh, and Anup Kumar Bhattacharjee	ECE AEIE	Journal of Earth System Science	2019	Print ISSN 0253-4126; Online ISSN 0973-774X
12	Grain Boundary Detection and Phase Segmentation of SEM Ferrite–Pearlite Microstructure Using SLIC and Skeletonization	Subir Gupta . Jit Sarkar . Abhijit Banerjee . N. R. Bandyopadhyay . Subhas Ganguly	MCA, ECE	Journal of The Institution of Engineers (India): Series D Spinger	2019	2250-2122

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13	Grain Boundary Detection and Phase Segmentation of SEM Ferrite–Pearlite Microstructure Using SLIC and Skeletonization	Subir Gupta , Jit Sarkar . Abhijit Banerjee . N. R. Bandyopadhyay . Subhas Ganguly	MCA ECE	Journal of The Institution of Engineers (India): Series D	2019	ISSN: 2250-2122
14	Novel CMOS Multi-bit Counter for Speed-Power Optimization in Multiplier Design	Aloke Saha , Rahul Pal, Akhilesh G. Naik and Dipankar Pal	ECE	<i>AEU-International Journal of Electronics & Communication (IJECE)</i> , Elsevier	2018	ISSN: 1434-8411
15	DPL-Based Novel Binary-to-Ternary Converter on CMOS Technology	Aloke Saha and Dipankar Pal	ECE	<i>AEU-International Journal of Electronics & Communication (IJECE)</i> , Elsevier	2018	ISSN: 1434-8411
16	“Study of Decoupling between Patch Elements of Microstrip Array using Electromagnetic Soft Surface.”	Chandan Kumar Ghosh and Sourav Moitra	ECE	Journal of Electromagnetic Waves and Applications (Taylor & Francis)	2018	ISSN: 0920-5071 (Print) 1569-3937 (Online)
17	“Compact Circularly Polarized Wide Beam Width Fern Fractal Shaped Microstrip Antenna for Vehicular Communication,”	Tapas Mondal , Sandip Maity, Rowdra Ghatak and Sekhar Ranjan Bhadra Chaudhuri	ECE	<i>IEEE Transactions on Vehicular Technology</i>	2018	ISSN: 0018-9545.
18	"Design and analysis of a wideband circularly polarised perturbed psi-shaped antenna"	Tapas Mondal , Sandip Maity, Rowdra Ghatakand, Sekhar Ranjan Bhadra Chaudhuri	ECE	<i>IET Microwave, Antennas and Propagation</i>	2018	ISSN, 1751-8725
19	,"Fractal-based design and fabrication of low-sidelobe antenna array,"	A. Chatterjee, Tapas Mondal , Deven G. Patanvariya, and Ravi Prasad K. Jagannath	ECE	<i>AEU-International Journal of Electronics and Communications, Elsevier</i> ,	2018	ISSN: 1434-8411.

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20	Study of Decoupling between patch elements of Microstrip Array Using Electromagnetic Soft Surface	Candan Kumar Ghosh and S. Moitra	ECE	Journal of Electromagnetic Waves and Applications, Taylor & Francis	2018	0920-5071 / 1569-3937
21	Fractality and singularity in CME linear speed signal: Cycle 23"	Anirban Chattopadhyay, M. H. Khondekar, A. K. Bhattacharjee	ECE AEIE	Elsevier -Chaos, Solitons and Fractals	2018	0960-0779
22	Scaling analysis and model estimation of solar corona index	Samujjwal Ray, Rajdeep Ray, Mofazzal Hossain Khondekar , Koushik Ghosh	AEIE ECE AEIE	Advances in Space Research ; Elsevier	2018	0273-1177 / 1879-1948
23	Modified firefly algorithm for area estimation and tracking of fast expanding oil spills	Abhijit Banerjee, Dipendranath Ghosh , Suvrojit Das	ECE, Basic science and Humanities (Mathematics)	Applied Soft Computing	2018	1568-4946
24	Fractality and singularity in CME linear speed signal: Cycle 23	Anirban Chattopadhyay, Mofazzal H. Khondekar, A. K. Bhattacharya	ECE AEIE	Chaos, Solitons and Fractals, Elsevier	2018	ISSN: 0960-0779
25	Scaling Analysis and Model estimation of Solar Corona Index	Samujjwal Ray, R. Ray, Mofazzal H. Khondekar , K. Ghosh	AEIE ECE AEIE	Advances in Space Research, Elsevier	2018	ISSN: 0273-1177
26	LP-HS Logic Evaluation on TSMC 0.18 μ m CMOS Technology	Aloke Saha Sushil Kumar Debajit Das Mrinmoy Chakraborty	ECE	<i>International Journal of High Speed Electronics & Systems (IJHSES)</i> , World Scientific	2017	ISSN (print): 0129-1564 ISSN (online): 1793-6438
27	Benchmarking of DPL Based 8b $\times$ 8b Novel Wave-Pipelined Multiplier	Aloke Saha Dipankar Pal Mahesh Chandra	ECE	<i>International Journal of Electronics Letters (IJEL)</i> , Taylor & Francis	2017	Print ISSN: 2168-1724 Online ISSN: 2168-1732

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28	“A Noble UWB Array with Band Notch Characteristics,”	Chandan Kumar Ghosh A. Medda S. Biswas S. K. Parui	ECE	Wireless Personal Communication (Springer),	2017	ISSN: 0929-6212 (Print) 1572-834X (Online)
29	“ A Miniaturized CPW-Fed Spiral Ring Resonator Loaded Slot Antenna for Wireless Application,”	Chandan Kumar Ghosh	ECE	Wireless Personal Communication (Springer),	2017	ISSN: 0929-6212 (Print) 1572-834X (Online)
30	“Harmonic Suppression of a Dual Polarized Microstrip Array by using Microstrip Stubs,	Chandan Kumar Ghosh Amrita Medda	ECE	Journal of Electromagnetic Waves and Applications (Taylor & Francis),	2017	ISSN: 0920-5071 (Print) 1569-3937 (Online)
31	High Performance DGS Integrated Compact Antenna for 2.4/5.2/5.8 GHz WLAN Band	Mrinmoy Chakraborty S. Chakraborty P. S. Reddy S.Samanta	ECE	Radioengineering	2017	ISSN 1210-2512 (Print); ISSN 1805-9600 (Online)
32	LPHS Logic Evaluation on TSMC 0.18µm CMOS Technology	Aloke Saha Sushil Kumar Debajit Das Mrinmoy Chakraborty	ECE	Int. J. of High Speed Electronics & Systems (IJHSES), World Scientific	2017	ISSN (print): 0129-1564 ISSN (online): 1793-6438
33	Stationarity and periodicities of linear speed of coronal mass ejection: a statistical signal processing approach	A. Chattopadhyay M. H. Khondekar A. K. Bhattacharjee	ECE	Astrophysics and Space Science	2017	Electronic ISSN 1572-946X Print ISSN 0004-640X
34	A Co-Segmentation Technique using Entropy Maximization of Brain MRI	Ankita Mitra , Tapas Si, Arunava De, A.K. Bhattacharjee	ECE	Journal of Advanced Research in Dynamical and Control Systems	2017	ISSN : 1943-023X, Vol-9

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35	Nonlinearity and chaos in wireless network traffic	Somenath Mukherjeea, Rajdeep Ray, Rajkumar Samanta, Mofazzal H. Khondekard , Goutam Sanyal	ECE IT AEIE	Chaos, Solitons and Fractals(Nonlinear Science, and Nonequilibrium and Complex Phenomena), Elsevier	2017	0960-0779 / 1873-2887
36	Design of a-shaped coaxial fed compact broadband antenna for wlan/ wimax/ uwb lower-band applications	Aritra Bhowmik , and Anup K. Bhattacharjee	ECE	Microwave and Optical Technology Letters	2017	Print ISSN: 0895-2477 Online ISSN: 1098-2760
37	Nonlinearity and Chaos in wireless network traffic	S. Mukherjee, Rajdeep . Ray, Raj kumar. Samanata, Mofazzal H. Khondekar , G. Sanval	ECE CSE AEIE	Chaos, Solitons and Fractals, Elsevier	2017	0960-0779
38	“Harmonics Suppression of Microstrip Antenna by using Open Ended Stubs,”	Chandan Kumar Ghosh	ECE	Microwave and Optical technology Letter (MOTL), Wiley publication,	2016	ISSN: 0895-2477 (print); 1098-2760 (web)
39	, “A Compact 4-channel Microstrip MIMO Antenna with Reduced Mutual Coupling,”	Chandan Kumar Ghosh	ECE	International Journal of Electronics and Communications (Elsevier),	2016	ISSN, 14348411.
40	Realization of high performance compact CPW-fed planar UWB antenna using higher order asymmetry for practical applications	Mrinmoy Chakraborty , S Pal, N Chottoraj	ECE	Microwave and Optical Technology Letters	2016	Print ISSN: 0895-2477 Online ISSN: 1098-2760

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41	A study on frequency tuning and miniaturization of a ground slotted rectangular microstrip patch antenna built with different dielectric substrates	Aritra Bhowmik , Ujjal Chakraborty , and Anup K. Bhattacharjee	ECE	Microwave and Optical Technology Letters	2016	Print ISSN: 0895-2477 Online ISSN: 1098-2760
42	“Shaped beam synthesis of concentric ring array antenna using Differential Evolution Algorithm,	D. Mandal, A. Chatterjee, Tapas. Mondal and A.K. Bhattacharjee	ECE	<i>AEU - International Journal of Electronics and Communications, Elsevier ,</i>	2015	ISSN: 1434-8411.
43	“Novel Adaptive Blind Spot Detector Using Square Modified Cantor Fractal Microstrip Antenna Array.”	Tapas Mondal , Taniya Roy, Rowdra Ghatak and S. R. Bhadra Chaudhuri,	ECE	<i>Microwave and Optical Technology Letter</i>	2015	ISSN: 0895-2477 (print); 1098-2760 (web)
44	An energy saving audio compression scheme for wireless multimedia sensor networks using spatio-temporal partial discrete wavelet transform	Rajib Banerjee , S. Chatterjee and S. Das Bit	ECE	Elsevier Computers and Electrical Engineering	2015	0045-7906
45	Memory persistency and nonlinearity in daily mean dew point across India	Rajdeep Ray , Mofazzal H. Khondekar , K. Ghosh & A. K. Bhattacharjee	ECE AEIE	Theoretical and Applied Climatology, Springer	2015	0177-798X (Print) 1434-4483 (Online)
46	Chaos and periodicity in solar wind speed: cycle 23	T. Sarkar, Rajdeep. Ray , Mofazzal H. Khondekar , S. Banerjee	ECE AEIE	Astrophysics And Space Science, Springer	2015	0004-640X (Print) 1572-946X (Online)

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47	"A Compact Multiband Microstrip Antenna using Complementary Slots on the Ground Plane,"	C. K. Ghosh , S. Mondal and S. K. Parui,	ECE	Microwave and Optical technology Letter (MOTL), Wiley publication,	2016	ISSN: 0895-2477 (print); 1098-2760 (web)
48	"A Novel Hexagonal Wideband Circularly Polarized Stacked Patch Microstrip Antenna."	Tapas Mondal , S. Samanta, Rowdra Ghatak and S. R. Bhadra Chaudhuri,	ECE	<i>Microwave and Optical Technology Letter</i>	2015	ISSN: 0895-2477 (print); 1098-2760 (web)
49	"A Novel Tri-Band Hexagonal Microstrip Patch Antenna Using Modified Sierpinski Fractal For Vehicular Communication"	T. Mondal , S. Samanta, R. Ghatak, and S. R. Bhadra Chaudhuri	ECE	<i>Progress In Electromagnetics Research C</i> ,	2015	ISSN:1937-8718