

List of SCI /Scopus/Reputed Journal Publications by ECE Faculty

Session July, 2012- June, 2013

S No.	Name of Author(s)	Title of Paper	Name of the Journal	Volume No. / Issue No./ Page numbers/ ISSN	Month, Year of Publication	National / International	Refeered/ Non-Refereed	DOI	Indexing	Citations
1	Munish Rattan, Kiranjot Kaur, Manjeet Singh Patterh	Biogeography Based Optimization Of Cognitive Radio System	International Journal of Electronics (Taylor & Francis)	Vol. 101, Issue 1, pp.24-36	March, 2013	International	Refeered	doi.org/10.1080/00207217.2013.769183	SCI, Scopus	12
2	Rajandeep Singh, Maninder Lal Singh and Baljeet Kaur	A Novel Triple Pump 1050 Nm, 1400 Nm, 800 Nm Pumping Scheme For Thulium Doped Fiber Amplifier	Optik - International Journal for Light and Electron Optics	Vol. 123, Issue 20, pp.1815–1816	October, 2012	International	Refeered	doi.org/10.1016/j.ijleo.2011.11.102	WOS, SCI, Scopus	8
3	Baljeet Kaur, Ajay K. Sharma, Vinod Kapoor	Performance Enhancement With Square Root Module For WDM R of-EPON Link	Optik-International Journal for Light and Electron Optics	Vol. 124, Issue 10, pp. 967-971, ISSN: 0030-4026	June, 2013	International	Refeered	WOS, SCI, Scopus	5

4	Baljeet Kaur , Ajay K. Sharma, Vinod Kapoor	On WDMR OF-EPON Link Using OSSB Transmission With and Without Square Root Module	Optik - International Journal For Light and Electron Optics (Elsevier Science)	Vol. 124, Issue 12, pp. 1334-1337, ISSN: 0030-4026	June, 2013	International	Refereed	10.1016/j.ijleo.2012.03.083	WOS, SCI, Scopus	5
5	Baljeet Kaur , Ajay K. Sharma and Vinod Kapoor	Performance Analysis Of WDM ROF-EPON Link With and Without DCF and FBG	Optics and Photonics Journal	Vol. 3, No. 2, pp. 163-168	June, 2013	International	Refereed	10.4236/opj.2013.32027	WOS, SCI, Scopus	3

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1	Cheena Jain and Sandeep Singh Gill	Carbon Nano Tube Field Effect Transistor Based 4-Bit Full Adder Cell	British Journal of Applied Science & Technology	Vol. 4 Issue 25, pp. 3678-3686	September, 2014	International	Refereed	doi10.9734/BJAST/2014/10586	cross ref, ISI Web of Science	0

2	Gurinder Singh, Ameeta Seehra, Sukhbir Singh	Investigation on order and width of RZ super Gaussian pulse in different WDM systems at 40 Gb/s using dispersion compensating fibers	Optik -International Journal for light and Electron Optics (Elsevier)	Vol. 125, Issue 16, pp. 4270-4273, ISSN: 347-5162	August, 2014	International	Refereed	doi:10.1016/j.jleo.2014.04.010	https://www.elsevier.com/journals/optik/0030-4026/abstracting-indexing (WOS, Scopus, SCI)	6
3	Balwinder S. Dhaliwal, Shyam S. Pattnaik	Performance comparison of bio-inspired optimization algorithms for Sierpinski gasket fractal antenna design	Neural Computing and Applications (Springer)	ISSN:0941-0643	March, 2015	International	Refereed	doi:10.1007/s00521-015-1879-y	Science Citation Index Expanded (SciSearch), SCOPUS,	6
4	Urvinder Singh, Munish Rattan	Design of Linear and Circular Antenna Arrays Using Cuckoo Optimization Algorithm	Progress In Electromagnetics Research C	Vol. 46, pp. 1-11, ISSN: 1937-8718	2014	International	Refereed	doi:10.2528/PIERC13110902	Elsevier's SCOPUS and Compendex	28
5	Urvinder Singh, Munish Rattan	Design of thinned concentric circular antenna arrays using firefly Algorithm	Microwaves, Antennas & Propagation, IET	Vol. 8, Issue 12, pp.894-900, ISSN: 1751-8725	September, 2014	International	Refereed	doi:10.1049/iet-map.2013.0695	SCI, SCOPUS, SCIE, WOS	10

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4	Urvinder Singh, Munish Rattan	Design of Linear and Circular Antenna Arrays Using Cuckoo Optimization Algorithm	Progress In Electromagnetics Research C	Vol. 46, pp. 1-11, ISSN: 1937-8718	2014	International	Refereed	doi:10.2528/PIERC13110902	Elsevier's SCOPUS and Compendex	28
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1	Jugminder Kaur, Sandeep S. Gill , and Balwinder Singh Dhaliwal	Secure Trust Based Key Management Routing Framework for Wireless Sensor Networks	Journal of Engineering (Hindawi)	Vol. 2016, pp. 1 – 9. ISSN: 2314-4904	February, 2016	International	Refereed	http://dx.doi.org/10.1155/2016/2089714	Scopus	8

2	Sandeep Singh Gill, Jaidev Kausik, Navneet Kaur	Performance Analysis of 20 nm Si and Ge channel based Pentagonal and Trapezoidal NWT	International Journal of Circuits and Electronics	Vol. 1, pp. 174-184, ISSN: 2367-8879	March, 2016	International	Refereed	Refereed	ELSEVIER	1
3	Gurveer Kaur, Amandeep Kaur, Gurpreet Kaur Toor, Balwinder Singh Dhaliwal and Shyam Sundar Pattnaik	Antennas for Biomedical Applications	Biomedical Engineering Letters (Springer)	Vol. 5, No. 3, pp. 203 – 212	September, 2015	International	Refereed	10.1007/s13534-015-0193-z	SCOPUS	3
4	Balwinder S. Dhaliwal and Shyam S. Pattnaik	Performance Comparison of Bio-Inspired Optimization Algorithms for Sierpinski Gasket Fractal Antenna Design	Neural Computing and Applications (Springer)	Vol. 27, no. 3, pp. 585-592, Print ISSN:0941-0643, Online ISSN:1433-3058	April, 2016	International	Refereed	DOI: 10.1007/s00521-015-1879-y	Science Citation Index Expanded (SciSearch), SCOPUS,	5
5	Balwinder S. Dhaliwal and Shyam S. Pattnaik	BFO-ANN Ensemble Hybrid Algorithm to Design Compact Fractal Antenna for Rectenna System	Neural Computing and Applications (Springer)	pp 1–12	June, 2016	International	Refereed	DOI: 10.1007/s00521-016-2402-9	Science Citation Index Expanded (SciSearch)SCOPUS,	0
6	Urvinder Singh, Rohit Salgotra, Munish Rattan	A Novel Binary Spider Monkey Optimization Algorithm for Thinning of Concentric Circular Antenna Arrays	IETE Journal of Research (Taylor & Francis)	Vol. 62, Issue 6, pp. 736-744	February 29, 2016	International	Refereed	10.1080/03772063.2015.1135086	WOS, Scopus	13

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1	Harsimranjit Singh Gill, Kamaljit Singh Bhatia and Sandeep Singh Gill	Analysis of secured Optical Orthogonal Frequency Division Multiplexed System	International Journal of Optical Communications	pp. 1-5, ISSN (Online) 2191-6322, ISSN (Print) 0173-4911	August, 2016	International	Refereed	DOI: 10.1515/joc-2016-0075	Elsevier - SCOPUS	2
2	Satyam Shukla, Sandeep Singh Gill, Navneet Kaur	Comparative Simulation Analysis of Process Parameters variations in 20nm Triangular FinFET	Active and Passive Electronic Components	pp.1-8, Vol 2017	2017	International	Refereed	https://doi.org/10.1155/2017/5947819	SCOPUS	0
2	Jasmeet Kaur, Sandeep Singh Gill, Navneet Kaur	Optimization of CMOS Repeater Driven Interconnect RC line using Genetic Algorithm	Journal of Shanghai Jiaotong University (Science) - Springer	Vol. 22, Issue 2, pp. 168-173, ISSN: 2367-8879	2017	International	Refereed	DOI 10.1007/s12204-017-1817-5	https://www.springer.com/engineering/electronics/journal/12204	0
3	Aakshi Sharma, Sapanjot Kaur , Rajan Miglani, Jagjit Singh Malhotra	Implementation of all optical full-addition module based on SOA non linearity	Journal of Optics	Vol. 46, No. 1, pp. 43 – 50	March, 2017	International	Refereed	DOI 10.1007/s12596-016-0341-6	SCOPUS	0

5	Avneet Kaur, Baljeet Kaur, Kuldeepak Singh	Design and Performance analysis of bidirectional TWDM-PON employing QAM-OFDM for downstream and remodulation for upstream	Optik - International Journal for Light and Electron Optics	Vol. 134, ISSN: 0030-4026 , pp.287-294	April, 2017	International	Refereed	doi.org/10.1016/j.ijleo.2017.01.009	SCIENCE CITATION INDEX, SCOPUS	4
6	Jaspreet Kaur, Baljeet Kaur, Kuldeepak Singh	Design and Performance Investigation of Intersatellite Optical Wireless Communication System Employing Modulation Techniques	Springer- Wireless Personnel Communication	Vol.94, Issue 3, ISSN: 0929-6212,pp. 793–807	June, 2017	International	Refereed	10.1007/s11277-016-3651-8	SCI, SCOPUS	0

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1	Navneet Kaur, Munish Rattan, Sandeep Singh Gill	Influence of Fin Dimensions on Performance of Nanoscale Rectzoidal Bulk FinFET	Journal of Nanoelectronics and Optoelectronics	Accepted	2018	International	Refereed	Accepted	SCI/ Scopus	0

2	Sandeep Singh Gill et al.	Performance Analysis of Impact of Source/Drain Doping Gradient as well as Roll-off Widths on GIDL of Double Gate MOSFET	Journal of Nanoelectronics and Optoelectronics, American Scientific Publishers	Accepted	2018	International	Refereed	Accepted	Accepted). (SCI/Scopus indexed)	0
2	Jashanjot Kaur, Sandeep Singh Gill, Gurneet Kaur	Electrical Characteristics of Double Gate and Trigate Silicon-On-Insulator Fin FET based Inverter at 20nm Technology	International Journal of Research in Engineering, IT and Social Sciences (IJREISS)	Vol.8, Special Issue, page 72-80, ISSN-2250-0588 (Online)	June 2018,	International	Refereed	http://indusedu.org/papers-ijreiss.php?id=8-Special-6-2018	http://indusedu.org/indexing.php , (UGC approved Journal No. 42301)	0
3	Harsimranjit Singh Gill, Sandeep Singh Gill , Kamaljit Singh Bhatia	A novel approach for physical layer security in future-generation passive optical networks	Photonic Network Communications. Springer	Volume 35, Issue 2, pp 141–150, ISSN: 1387-974X. (SCI/Scopus indexed)	April, 2018	International	Refereed	https://doi.org/10.1007/s11107-017-0738-4	Science Citation Index, Science Citation Index Expanded (SciSearch), Journal Citation Reports/Science Edition, SCOPUS	0
5	Navneet Kaur, Munish Rattan, Sandeep Singh Gill	Performance optimization of Broadwell-Y shaped transistor using Artificial Neural Network and Moth-Flame Optimization Technique	Majlesi Journal of Electrical Engineering	Vol 12 No 1, p- ISSN: 2345-377X	March, 2018	International	Refereed	-----	http://mjee.iaumajlesi.ac.ir/index/index.php/ee/about/editorialPolicies#custom-0 , (Scopus)	0

6	Sanjeev Kumar, Sandeep Singh Gill, Kuldeep Singh	Performance Investigation of Inter-satellite Optical Wireless Communication (IsOWC) System Employing Multiplexing Techniques	Wireless Personal Communications, Springer	Volume 98, Issue 1, pp 1461–1472, ISSN: 0929-6212.	January, 2018	International	Refereed	https://doi.org/10.1007/s11277-017-4926-4	(SCI/Scopus indexed)	0
7	Harsimranjit Singh Gill, Sandeep Singh Gill Kamaljit Singh Bhatia	A novel chaos-based encryption approach for future-generation passive optical networks using SHA-2	IEEE/OSA Journal of Optical Communications and Networking	Volume: 9, Issue: 12, pp. 1184-1190	December , 2017	International	Refereed	10.1364/JOCN.9.001184	(SCI/Scopus indexed)	0
8	Balwinder Singh Dhaliwal, Shyam Sundar Pattnaik	Development of PSO-ANN Ensemble Hybrid Algorithm and Its Application in Compact Crown Circular Fractal Patch Antenna Design	Wireless Personal Communications	Vol. 96, No. 1, 2017, pp. 135-152.	2017	International	Refereed	DOI 10.1007/s11277-017-4157-8	Science Citation Index Expanded (SciSearch), Journal Citation Reports/Science Edition, SCOPUS	0
9	Pushkar Mishra, Shayam S. Pattnaik, Balwinder Singh Dhaliwal	Square-Shaped Fractal Antenna under Metamaterial Loaded Condition for Bandwidth Enhancement	Progress In Electromagnetics Research C	Vol. 78, 2017, pp. 183–192	2017	International	Refereed		Elsevier's SCOPUS and Compendex now	0

10	Narwant Singh Grewal, Munish Rattan , Manjeet Singh Patterh	A Linear Antenna Array Failure Correction Using Improved Bat Algorithm	International Journal of RF and Microwave Computer-aided Engineering (Wiley) (Impact Factor 0.524)	Volume 27, Issue 7, pp. 1-16	September, 2017	International	Refereed	10.1002/mmce.21119	http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1099-047X/homepage/ProductInformation.html , (SCI expanded, SCOPUS, WOS)	0
11	Narwant Singh Grewal, Munish Rattan , Manjeet Singh Patterh	A Non-Uniform Circular Antenna Array Failure Correction Using Firefly Algorithm	Wireless Personal Communications (springer) (Impact Factor 0.701 (2015))	Vol.97, Issue 1, pp 845-858	November, 2017	International	Refereed	DOI 10.1007/s11277-017-4540-5	http://www.springer.com/engineering/signals/journal/11277 , (SCI expanded, SCOPUS)	0
12	Kiranjot Kaur, Munish Rattan & Manjeet Singh Patterh	Cuckoo Search Based Optimization of Multiuser Cognitive Radio System Under the Effect of Shadowing	Wireless Personal Communications An International Journal	Vol. 99 No. 3, ISSN 0929-6212, pp-1217-1230	April, 2018	International	Refereed	DOI 10.1007/s11277-017-5181-4	https://link.springer.com/article/10.1007/s11277-017-5181-4 , (Science Citation Index Expanded (SciSearch), Journal Citation Reports/Science Edition, SCOPUS, Google Scholar)	1
13	Ravneet Kaur, Harminder Kaur	Comparative analysis of chirped, AMI and DPSK modulation techniques in IS-OWC system	Optik - International Journal for Light and Electron Optics (Elsevier)	Volume 154, Pages 755-762	Feb-18	International	Refereed	https://doi.org/10.1016/j.ijleo.2017.10.108	SCOPUS	0

14	Taranjit Kaur, Baljinder Singh Saini, Savita Gupta	An optimal spectroscopic feature fusion strategy for MR brain tumor classification using Fisher Criteria and Parameter-Free BAT optimization algorithm	Biocybernetics and Biomedical Engineering (Elsevier)	Volume 38, Issue 2, 2018, Pages 409-424	2018	International	Refereed	https://doi.org/10.1016/j.bbe.2018.02.008	SCOPUS	0
15	Taranjit Kaur, Baljinder Singh Saini, Savita Gupta	A novel fully automatic multilevel thresholding technique based on optimized intuitionistic fuzzy sets and tsallis entropy for MR brain tumor image segmentation.	Australasian Physical & Engineering Sciences in Medicine	Volume 41, Issue 1, pp 41–58	Mar-18	International	Refereed	https://www.ncbi.nlm.nih.gov/pubmed/29238919	Science Citation Index Expanded (SciSearch), Journal Citation Reports/Science Edition, Medline, SCOPUS	0
16	Atul Kumar Verma, Barjinder Singh Saini, Taranjit Kaur	Image Denoising using Alexander Fractional Hybrid Filter	International Journal Of Image and Graphics	Vol. 18, No. 1, pp.	January , 2018	International	Refereed	http://www.worldscientific.com/page/ijig/abstracted-indexed	SCOPUS	0