

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

Session July, 2014-June, 2015

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	Refereed / Non-Refereed	DOI	Indexing	Citations
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.ijleo.2014.04.010	<a href="https://www.elsevier.com/journals/optik/0030-4026/abstracting-indexing-(WOS,Scopus,SCI)">https://www.elsevier.com/journals/optik/0030-4026/abstracting-indexing-(WOS, Scopus, SCI)</a>	12
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,	15

4	Urvinder Singh, <b>Munish Rattan</b>	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 Compindex	45
5	Urvinder Singh, <b>Munish Rattan</b>	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	23

### Session July, 2015-June, 2016

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	Refereed / Non-Refereed	DOI	Indexing	Citations
1	Jugminder Kaur, <b>Sandeep S. Gill, and Balwinder Singh Dhaliwal</b>	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	<a href="http://dx.doi.org/10.1155/2016/2089714">http://dx.doi.org/10.1155/2016/2089714</a>	Scopus	15

2	<b>Sandeep Singh Gill,</b> Jaidev Kausik, <b>Navneet Kaur</b>	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, <b>Balwinder Singh Dhaliwal</b> 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	13
4	<b>Balwinder S. Dhaliwal</b> 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	15
5	<b>Balwinder S. Dhaliwal</b> and Shyam S. Pattnaik	BFO-ANN Ensemble Hybrid Algorithm to Design Compact Fractal Antenna for Rectenna System	Neural Computing and Applications (Springer)	Vol. 28, pp. 917–928	June, 2016	International	Refereed	DOI: 10.1007/s00521-016-2402-9	Science Citation Index Expanded (SciSearch), Scopus	16

6	Urvinder Singh, Rohit Salgotra, <b>Munish Rattan</b>	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, ISSN:0377-2063	February 29, 2016	International	Refereed	10.1080/03772063.2015.1135086	SCIE, Scopus	50
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### Session July, 2016-June, 2017

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	Refereed / Non-Refereed	DOI	Indexing	Citations
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	Refereed/ Non-Refereed	DOI	Indexing	Citations
1	<b>Harsimranjit Singh Gill,</b> 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, <b>Sandeep Singh Gill,</b> <b>Navneet Kaur</b>	Comparative Simulation Analysis of Process Parameters variations in 20nm Triangular FinFET	Active and Passive Electronic Components	Vol 2017,pp.1-8	2017	International	Refereed	doi.org/10.1155/2017/5947819	Scopus	10
3	Jasmeet Kaur, <b>Sandeep Singh Gill,</b> <b>Navneet Kaur</b>	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	<a href="https://www.springer.com/engineering/electronics/journal/12204">https://www.springer.com/engineering/electronics/journal/12204</a>	0
4	Aakshi Sharma, <b>Sapanjot Kaur,</b> 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, <b>Baljeet Kaur,</b> <b>Kuldeepak Singh</b>	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	SCI, Scopus	14

6	Jaspreet Kaur, <b>Baljeet Kaur,</b> <b>Kuldeepak Singh</b>	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	SCIE, Scopus	2
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### Session July, 2017-June, 2018

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	Refereed/ Non-Refereed	DOI	Indexing	Citations
1	<b>Harsimranjit Singh Gill,</b> <b>Sandeep Singh Gill</b> Kamaljit Singh Bhatia	A novel approach for physical layer security in future-generation passive optical networks	Photonic Network Communications Springer	Vol. 35, Issue 2, pp 141–150, ISSN: 1387-974X. (SCI/Scopus indexed)	April, 2018	International	Refereed	<a href="https://doi.org/10.1007/s11107-017-0738-4">https://doi.org/10.1007/s11107-017-0738-4</a>	Science Citation Index, Science Citation Index Expanded (SciSearch), Scopus	4

2	<b>Navneet Kaur, Munish Rattan, Sandeep Singh Gill</b>	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	<a href="http://mjee.iaumajlesi.ac.ir/index/index.php/ee/article/view/2231">http://mjee.iaumajlesi.ac.ir/index/index.php/ee/article/view/2231</a>	<a href="http://mjee.iaumajlesi.ac.ir/index/index.php/ee/about/editorialPolicies#custom-0">http://mjee.iaumajlesi.ac.ir/index/index.php/ee/about/editorialPolicies#custom-0</a> , (Scopus)	6
3	Sanjeev Kumar, <b>Sandeep Singh Gill, Kuldeepak Singh</b>	Performance Investigation of Inter-satellite Optical Wireless Communication (IsOWC) System Employing Multiplexing Techniques	Wireless Personal Communications, Springer	Vol.98, Issue 1, pp. 1461–1472, ISSN: 0929-6212.	January, 2018	International	Refereed	<a href="https://doi.org/10.1007/s11277-017-4926-4">https://doi.org/10.1007/s11277-017-4926-4</a>	(SCI/Scopus indexed)	8
4	<b>Harsimranjit Singh Gill, Sandeep Singh Gill</b> 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	Vol. 9, Issue: 12, pp. 1184-1190	December, 2017	International	Refereed	10.1364/JOCN.9.001184	(SCI/Scopus indexed)	8
5	<b>Narwant Singh Grewal, Munish Rattan,</b> Manjeet Singh Patterh	A Linear Antenna Array Failure Correction Using Improved Bat Algorithm	International Journal of RF and Microwave Computer-aided Engineering	Vol. 27, Issue 7, pp. 1-16, ISSN:1096-4290E-ISSN:1099-047X	September, 2017	International	Refereed	10.1002/mce.21119	SCI expanded, Scopus, WOS	13

			g (Wiley) (Impact Factor 0.524)							
6	<b>Narwant Singh Grewal, Munish Rattan, Manjeet Singh Patterh</b>	A Non-Uniform Circular Antenna Array Failure Correction Using Firefly Algorithm	Wireless Personal Communic ations (springer) (Impact Factor 0.701 (2015)	Vol.97, Issue 1, pp 845– 858, ISSN:0929- 6212E- ISSN:1572- 834X	Novembe r, 2017	International	Refereed	DOI 10.1007/s 11277- 017-4540- 5	SCI expanded , SCOPUS	9
7	<b>Harpreet Kaur Gill, Gurjot Kaur Walia and Narwant Singh Grewal</b>	A Review on FSO and IS- OWC System along with Mode Division Multiplexing	Advanced Research in Electrical and Electronic Engineerin g	Vol. 5, Issue 2, April-June, 2018, pp. 105-109,e- ISSN: 2349- 5812	April- June, 2018	International	Refereed	<a href="https://www.krishisanskriti.org/vol_image/04Nov201807115004%2020%20%20%20%20HarpreetKaur%20Gill%20%20%20%20%20%20105-109.pdf">https://www.krishisanskriti.org/vol_image/04Nov201807115004%2020%20%20%20%20HarpreetKaur%20Gill%20%20%20%20%20%20105-109.pdf</a>	Scopus	0



8	<b>Balwinder Singh Dhaliwal,</b> 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	13
9	Pushkar Mishra, Shayam S. Pattnaik, <b>Balwinder Singh Dhaliwal</b>	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	4
10	Kiranjot Kaur, <b>Munish Rattan</b> & 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	Science Citation Index Expanded (SciSearch), Journal Citation Reports/ Science Edition, Scopus, Google Scholar	7



14	<b>Taranjit Kaur,</b> Barjinder 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	Australasia n Physical & Engineering Sciences in Medicine	Vol.41, Issue 1, pp 41-58	May, 2018	International	Refereed	<a href="https://www.ncbi.nlm.nih.gov/pubmed/29238919">https://www.ncbi.nlm.nih.gov/pubmed/29238919</a>	Science Citation Index Expanded (SciSearch), Journal Citation Reports/ Science Edition, Medline, Scopus	6
15	Atul Kumar Verma, Barjinder Singh Saini, <b>Taranjit Kaur</b>	Image Denoising using Alexander Fractional Hybrid Filter	International Journal Of Image and Graphics	Vol. 18, No. 1, pp.	January , 2018	International	Refereed	<a href="http://www.worldscientific.com/page/ijig/abstracted-indexed">http://www.worldscientific.com/page/ijig/abstracted-indexed</a>	Scopus	4

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1	<b>Navneet Kaur,</b> <b>Munish Rattan,</b> <b>Sandeep Singh Gill</b>	Design and Optimization of Novel Shaped FinFET	Arabian Journal for Science and Engineering	Vol. 44, Issue 4, pp 3101-3116, ISSN:2193-567XE- ISSN:2191-	July, 2018	International	Refereed	<a href="https://doi.org/10.1007/s13369-018-3428-3">https://doi.org/10.1007/s13369-018-3428-3</a>	Scopus, SCIE	7

				4281						
2	Gurmukh Singh, Munish Rattan, <b>Sandeep Singh Gill</b> , Nitin Mittal	Hybridization of water wave optimization and sequential quadratic programming for cognitive radio system	Soft Computing	Vol. 23, pp. 7991–8011, ISSN:1432-7643E-ISSN:1433-7479	August, 2018	International	Refereed	<a href="https://doi.org/10.1007/s00500-018-3437-x">https://doi.org/10.1007/s00500-018-3437-x</a>	Scopus, SCIE	0
3	Satyam Shukla, <b>Sandeep Singh Gill</b> , H S Jatana, Varun Nehru, <b>Navneet Kaur</b>	Modelling and mitigation of single-event upset in CMOS voltage-controlled oscillator	Sadhana	pp. 1-10, Print ISSN: 0256-2499; Online ISSN: 0973-7677	September, 2018	International	Refereed	<a href="https://doi.org/10.1007/s12046-018-0945-4">https://doi.org/10.1007/s12046-018-0945-4</a>	SCIE	0
4	Parveen Kumar, <b>Sandeep Singh Gill</b>	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	Vol. 13, No.11, pp. 1705-1710	November, 2018	International	Refereed	<a href="https://doi.org/10.1166/jno.2018.2426">https://doi.org/10.1166/jno.2018.2426</a>	SCI/Scopus	0

5	<b>Navneet Kaur, Munish Rattan, Sandeep Singh Gill</b>	Influence of Fin Dimensions on Performance of Nanoscale Rectzoidal Bulk FinFET	Journal of Nanoelectronics and Optoelectronics	Vol.14, No. 3, pp. 389-399(11), ISSN 1555-130X (Print), ISSN 1555-1318 (Online)	March, 2019	International	Refereed	<a href="https://doi.org/10.1166/jno.2019.2530">https://doi.org/10.1166/jno.2019.2530</a>	SCI/Scopus	0
6	<b>Harpreet Kaur, Narwant Singh, Gurjot Kaur Walia</b>	Performance analysis of mode division multiplexing IS-OWC system using Manchester, DPSK and DQPSK modulation techniques	Optik	Vol. 177, pp. 93-101	January, 2019	International	Refereed	<a href="https://doi.org/10.1016/j.ijleo.2018.09.032">https://doi.org/10.1016/j.ijleo.2018.09.032</a>	SCIE	0
7	<b>Suman Pattnaik, Balwinder Singh Dhaliwal, SS Pattnaik</b>	Impact analysis of mobile phone electromagnetic radiations on human electroencephalogram	Sadhana	Vol.44, No.134, Print ISSN: 0256-2499; Online ISSN: 0973-7677	May, 2019	International	Refereed	<a href="https://doi.org/10.1007/s12046-019-1116-y">https://doi.org/10.1007/s12046-019-1116-y</a>	SCIE	1
8	<b>Suman Pattnaik, Shyam S.Pattnaik and Balwinder Singh Dhaliwal</b>	Modeling of circular fractal antenna using BFO-PSO-based selective ANN ensemble	International Journal of Numerical Modelling Electronic Networks Devices and Fields	Vol.32, Issue 3, pp.1-12	June 2019	International	Refereed	<a href="https://doi.org/10.1002/jnm.2549">doi:10.1002/jnm.2549</a>	Scopus, SCIE	2

9	Harpreet Kaur and <b>Munish Rattan</b>	Hybrid Algorithm Based Effective Light Trail Creation in an Optical Networks	Journal of Optical Communications	ISSN 2191-6322	January 2019	International	Refereed	<a href="https://doi.org/10.1515/joc-2018-0209">https://doi.org/10.1515/joc-2018-0209</a>	Scopus	0
10	Shruti Sharma, <b>Munish Rattan</b>	An Improved Segmentation and Classifier Approach Based on HMM for Brain Cancer Detection	The Open Biomedical Engineering Journal	Vol. 13, 2019, pp. 33-39, ISSN: 1874-1207	February, 2019	International	Refereed	DOI: 10.2174/1874120701913010033	Scopus	0
11	Ashish Thakur, <b>Munish Rattan</b>	Implementation of convolution coded OFDM through different channel models on SDR platform	International Journal of Information Technology	Print ISSN: 2511-2104, Online ISSN: 2511-2112	December, 2018	International	Refereed	DOI:10.1007/s41870-018-0265-2	Scopus	0
12	Rajvir Kaur, Avneet Kaur and <b>Baljeet Kaur</b>	Performance analysis of SAC OCDMA in FSO under different Weather Conditions	Journal of Basic and Applied Engineering Research	Vol.5, Issue 7, p-ISSN: 2350-0077, e-ISSN: 2350-0255, pp. 565-572	December, 2018	International	Refereed	<a href="https://www.krishisanskriti.org/vol_image/24Oct201911105801%20%20%20%20%20%20%20Rajvir%20Kaur%20%20%20%20%20%20">https://www.krishisanskriti.org/vol_image/24Oct201911105801%20%20%20%20%20%20%20Rajvir%20Kaur%20%20%20%20%20%20</a>	Scopus	0

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13	Rajvir Kaur and <b>Baljeet Kaur</b>	A Review Paper on SAC OCDMA in FSO under different Weather Conditions	Advanced Research in Electrical and Electronic Engineering	Vol. 6, Issue 1, pp. 1-5, p-ISSN: 2349-5804, e-ISSN: 2349-5812	January-March, 2019	International	Refereed	https://www.krishisanskriti.org/vol_image/24Oct201911105801%20%20Rajvir%20Kaur%20%20%20%20%20%20%201-5.pdf	Scopus	0
14	Kanwarpreet Kaur, <b>Gurjot Kaur Walia</b> & <b>Jaspreet Kaur</b>	Neural Network Ensemble and Jaya Algorithm Based Diagnosis of Brain Tumor Using MRI Images	Journal of The Institution of Engineers(INDIA):Series-B	Vol. 99, Issue 5,pp 509-517	July, 2018	International	Refereed	https://doi.org/10.1007/s40031-018-0355-3	Scopus	2

15	Samjot kaur Aujla, <b>Navneet Kaur</b>	Optimization of Dual-K Gate Dielectric and Dual Gate Heterojunction SOI FinFET at 14 nm Gate Length	IETE Journal of Research	pp. 1-9, Print ISSN: 0377- 2063, Online ISSN: 0974- 780X	June, 2019	International	Refereed	<a href="https://doi.org/10.1080/03772063.2019.1620640">https://doi.org/10.1080/03772063.2019.1620640</a>	SCIE	3
16	<b>Chahat Jain,</b> Saroop singh	Feed Point Optimization of Koch– Minkowski Hybrid Boundary antenna for ISM Band	Wireless Personal Communica tions	Vol.108, Issue 4, pp. 2403– 2414	May, 2019	International	Refereed	<a href="https://doi.org/10.1007/s11277-019-06528-2">https://doi.org/10.1007/s11277-019-06528-2</a>	SCIE	0

### Session July, 2019-June, 2020

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1	<b>Gurpurneet Kaur, Sandeep Singh Gill, Munish Rattan</b>	Whale Optimization Algorithm for Performance Improvement of Silicon-On-Insulator FinFETs	International Journal of Artificial Intelligence	Vol.18, Issue 1,pp. 63-81, ISSN 0974-0635	March, 2020	International	Refereed	<a href="http://www.ceser.in/ceserp/index.php/ijai/article/view/6376">http://www.ceser.in/ceserp/index.php/ijai/article/view/6376</a>	Scopus	0



2	Shashi Bhushan, <b>Sandeep Singh Gill,</b> <b>Kuldeepak Singh Saini</b>	Development of range free three dimensional localisation in wireless sensor networks	International Journal of Sensor Networks	Vol. 31, No. 1, pp. 52-63, Online ISSN: 1748-1287	July, 2019	International	Refereed	<a href="https://doi.org/10.1504/IJSNET.2019.101572">https://doi.org/10.1504/IJSNET.2019.101572</a>	Scopus	0
3	Pulkit Jain, Debjyoti Malik, <b>Sandeep Singh Gill,</b> Paras Chawla	ASIC design of 4K-point RADIX-2 FFT in 0.18 $\mu$ m CMOS technology	International Journal of Information Technology	Vol.12, pp.1427–1433(2020), Print ISSN: 2511-2104;Online ISSN: 2511-2112	August, 2019	International	Refereed	<a href="https://doi.org/10.1007/s41870-019-00334-6">https://doi.org/10.1007/s41870-019-00334-6</a>	Scopus	0
4	Harpreet Kaur, <b>Narwant Singh, Gurjot Kaur Walia</b>	Comparative investigation of CSRZ-DQPSK, DRZ-DQPSK, and MDRZ-DQPSK modulation techniques in MDM IS-OWC system	Microwave and Optical Technology Letters	Vol. 61, Issue 7, pp. 1802-1809	July, 2019	International	Refereed	<a href="https://doi.org/10.1002/mop.31807">https://doi.org/10.1002/mop.31807</a>	SCIE	4
5	Chetanjot Kaur, <b>Narwant Singh Grewal</b>	Antenna systems for base station applications	International Journal of Innovative Technology and Exploring Engineering	Vol. 8, Issue-9S, pp. 733-736, ISSN: 2278-3075	July, 2019	International	Refereed	<a href="https://www.ijitee.org/wp-content/uploads/papers/v8i9S/I11180789S19.pdf">https://www.ijitee.org/wp-content/uploads/papers/v8i9S/I11180789S19.pdf</a>	Scopus	0

6	Amritpal Kaur, <b>Balwinder Singh Dhaliwal</b> , S. Pattnaik	Design of hybrid fractal boundary antenna for rf energy harvesting applications	International Journal of Innovative Technology and Exploring Engineering	Vol. 8, Issue 9S, pp. 411-413, ISSN: 2278-3075	July, 2019	International	Refereed	<a href="https://www.ijitee.org/wp-content/uploads/papers/v8i9S/I10650789S19.pdf">https://www.ijitee.org/wp-content/uploads/papers/v8i9S/I10650789S19.pdf</a>	Scopus	0
7	<b>Balwinder Singh Dhaliwal</b> , Gaganpreet Kaur, Navreet Saini, Shyam Sundar Pattnaik, <b>Simranjit Kaur</b>	A Modified Two-Step ANN Ensemble Approach to Improve Generalization and its Application in Fractal Antenna Design	International Journal of circuits, systems and computers	Vol. 29, Issue 07, ISSN 1793-6454	June, 2020	International	Refereed	<a href="https://doi.org/10.1142/S0218126620501066">https://doi.org/10.1142/S0218126620501066</a>	SCIE	0
8	Navleen Kaur, <b>Munish Rattan</b> , <b>Chahat Jain</b>	Design of T slot shaped microstrip patch antenna for S band applications	International Journal of Innovative Technology and Exploring Engineering	Vol. 8, Issue-9S, pp. 692-695 ISSN: 2278-3075	July, 2019	International	Refereed	<a href="https://www.ijitee.org/wp-content/uploads/papers/v8i9S/I11110789S19.pdf">https://www.ijitee.org/wp-content/uploads/papers/v8i9S/I11110789S19.pdf</a>	Scopus	0
9	Sumit Bansal, <b>Munish Rattan</b>	Design of cognitive radio system and comparison of modified whale optimization algorithm with whale optimization	International Journal of Information Technology	—	August, 2019	International	Refereed	<a href="https://doi.org/10.1007/s41870-019-00346-2">https://doi.org/10.1007/s41870-019-00346-2</a>	Scopus	0

		algorithm								
10	Harpreet Kaur, <b>Munish Rattan</b>	Wind Driven Based Heuristic Solution for Multiobjective Traffic Grooming in Optical Networks	Wireless Personal Communications	Vol. 110, pp. 1475–1491, ISSN 1572-834X	September, 2019	International	Refereed	<a href="https://doi.org/10.1007/s11277-019-06796-y">https://doi.org/10.1007/s11277-019-06796-y</a>	SCIE	0
11	Harpreet Kaur, <b>Munish Rattan</b>	Improved offline multi-objective routing and wavelength assignment in optical networks.	Frontiers of Optoelectronics	Vol.12, pp. 433–444	December, 2019	International	Refereed	<a href="https://doi.org/10.1007/s12200-019-0850-4">https://doi.org/10.1007/s12200-019-0850-4</a>	Scopus	0
12	Kiranjot Kaur, <b>Munish Rattan</b> , Manjeet Singh Patterh	Nakagami-m Fading Affected Multiuser Cognitive Radio System Design Using Moth Flame Optimization	Wireless Personal Communications	Vol. 112, ISSN 1572-834X, pp. 1319–1337	February, 2020	International	Refereed	<a href="https://doi.org/10.1007/s11277-020-07104-9">https://doi.org/10.1007/s11277-020-07104-9</a>	SCIE	1

13	A. S. Kang , Sanjeev Bhatia , <b>Navneet Kaur &amp; Kuldeepak Singh</b>	Performance evaluation of various hybrid modulation techniques transmitted by EDFA in radio- over-fibre communication	Journal of Information and Telecommu- nication	Vol. 4, Issue 3, pp. 295-313	March, 2020	International	Refereed	DOI: 10.1080/2 4751839.2 020.17327 66	Taylor and Fransics (ProQuest Technolog y Collection and ProQuest SciTech Premium Collection )	2
14	Rupinder Kaur and <b>Kuldeepak Singh</b>	Performance Analysis of Shift ZCC Codes and Multi Diagonal Codes in 100 Gbps MDM- FSO System	Journal of Optical Communica- tions	—	April, 2020	International	Refereed	<a href="https://doi.org/10.1515/joc-2019-0264">https://doi.org/10.1515/joc-2019-0264</a>	Scopus	0
15	Archana Madan, <b>Daljit Singh</b>	An optimized hybrid filter designing for speckle and gaussian noise reduction in ultra-sound images	International Journal of Innovative Technology and Exploring Engineering	Vol. 8, Issue- 9S, pp.836- 842, ISSN: 2278-3075	July, 2019	International	Refereed	<a href="https://www.ijitee.org/wp-content/uploads/papers/v8i9S/I11350789S19.pdf">https://www.ijitee.org/wp-content/uploads/papers/v8i9S/I11350789S19.pdf</a>	Scopus	0
16	<b>Preeti Pannu,</b> Devendra Kumar Sharma	A low-profile quad-port UWB MIMO antenna using defected ground structure with	International Journal of RF and Microwave Computer- Aided Engineering	Vol. 30, Issue 9,	Septemb er, 2020	International	Refereed	<a href="https://doi.org/10.1002/mmce.22288">https://doi.org/10.1002/mmce.22288</a>	SCIE	0

		dual notch-band behavior								
17	<b>Preeti Pannu,</b> Devendra Kumar Sharma	Miniaturize four-port UWB-MIMO antenna with tri-notched band characteristics	Microwave and Optical Technology Letters	Vol. 63, Issue 5, pp. 1489-1498	May, 2021	International	Refereed	DOI:10.1002/mop.32766	SCIE	0

### Session July, 2020-June, 2021

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	Refereed/ Non-Refereed	DOI	Indexing	Citations
1	<b>Gurpurneet Kaur,</b> <b>Sandeep Singh Gill,</b> <b>Munish Rattan</b>	Artificial Neural Network and Genetic Algorithm Based Hybrid Intelligence for Performance Optimization of Novel Inverted Funnel Shaped Fin Shaped Field Effect	Journal of Nanoelectronics and Optoelectronics	Vol.15, No.11, pp. 1385-1394(10), ISSN 1555-130X (Print), ISSN 1555-1318 (Online)	November, 2020	International	Refereed	<a href="https://doi.org/10.1166/jno.2020.2880">https://doi.org/10.1166/jno.2020.2880</a>	SCIE	0

		Transistor with Gate Stack High-k Dielectric								
2	<b>Gurpurneet Kaur, Sandeep Singh Gill, Munish Rattan</b>	Impact of Lanthanum Doped Zirconium Oxide (LaZrO <sub>2</sub> ) Gate Dielectric Material On FinFET inverter	International Journal on Smart Sensing and Intelligent Systems	Vol.13, Issue 1, pp. 1-10, ISSN 1178-5608	November, 2020	International	Refereed	<a href="https://doi.org/10.21307/ijssis-2020-032">https://doi.org/10.21307/ijssis-2020-032</a>	Scopus	0
3	<b>Gurpurneet Kaur, Sandeep Singh Gill, Munish Rattan</b>	Lanthanum Doped Zirconium Oxide (LaZrO <sub>2</sub> ) High-k Gate Dielectric FinFET SRAM Cell Optimization	Transactions on Electrical and Electronic Materials	—	March, 2021	International	Refereed	<a href="https://doi.org/10.1007/s42341-021-00296-2">https://doi.org/10.1007/s42341-021-00296-2</a>	Scopus	0
4	<b>Gurpurneet Kaur, Sandeep Singh Gill, Munish Rattan</b>	Whale Optimization Algorithm Approach for Performance Optimization of Novel Xmas Tree-Shaped FinFET	Silicon	pp. 1-12, ISSN:1876-990X, E-ISSN:1876-9918	April, 2021	International	Refereed	10.1007/s12633-021-01077-5	SCIE	0

5	<b>Gurvir Kaur, Kuldeepak Singh, Harsimranjit Singh Gill</b>	Chaos-based joint speech encryption scheme using SHA-1	Multimedia Tools and Applications	Vol. 80, pp. 10927–10947, ISSN 1573-7721	March, 2021	International	Refereed	10.1007/s11042-020-10223-x	SCIE	0
6	Nancy Ramanpreet, <b>Munish Rattan &amp; Sandeep Singh Gill</b>	Compact and Low Profile Planar Antenna with Novel Metastructure for Wearable MBAN Devices	Wireless Personal Communications	pp. 1-13, ISSN:0929-6212E-ISSN:1572-834X	February, 2021	International	Refereed	<a href="https://doi.org/10.1007/s11277-021-08182-z">https://doi.org/10.1007/s11277-021-08182-z</a>	SCIE	0
7	<b>Chahat Jain, Balwinder Singh, Rupinder Singh</b>	Flexible and Wearable patch antenna using additive manufacturing : A Framework	Encyclopedia of materials: Plastics and Polymers	Accepted (In press)	2020	International	Refereed	—	Elsevier	0
8	Kiranjot Kaur, <b>Munish Rattan</b> , Manjeet Singh Patterh	Optimization of a Novel Nakagami-m Fading Affected Multiuser Cognitive Radio System Using a New Hybrid DE/BBO/SA	International Journal of Sensors, Wireless Communications and Control	Vol. 10, Issue 6, pp. 1319-1337, ISSN (Print): 2210-3279 ISSN (Online): 2210-3287	February, 2021	International	Refereed	10.2174/2210327910666200207115638	Scopus	0

9	Pallavi Arora, <b>Baljeet Kaur</b> & Marcio Andrey Teixeira	Evaluation of Machine Learning Algorithms Used on Attacks Detection in Industrial Control Systems	Journal of The Institution of Engineers (India): Series B	—	March, 2021	International	Refereed	<a href="https://doi.org/10.1007/s40031-021-00563-z">https://doi.org/10.1007/s40031-021-00563-z</a>	Scopus	0
10	<b>Gurjot Kaur Walia,</b> Jagroop Singh Sidhu	Image Demosaijing: A Roadmap to Peculiarity Imaging	Turkish Journal of Computer and Mathematic s Education (TURCOM AT)	Vol.12, Issue No. 11, pp 3614-3623, e- ISSN: 1309- 4653	May, 2021	International	Refereed	<a href="https://turcomat.org/index.php/turkbilmats/article/view/6434/5332">https://turcomat.org/index.php/turkbilmats/article/view/6434/5332</a>	Scopus	0
11	<b>Preeti Pannu,</b> Devendra Kumar Sharma	Cordate-shaped UWB-MIMO antenna with notch band characteristic and high isolation	World Journal of Engineering	ISSN: 1708- 5284	January, 2021	International	Refereed	<a href="https://doi.org/10.1108/WJE-09-2020-0423">https://doi.org/10.1108/WJE-09-2020-0423</a>	Scopus	0