

List of 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. /IssueNo./ Page numbers/ ISSN	Month, Year of Publication	National/ International	DOI	Indexing
1.	Vijender Singh, Dr. Sandeep Singh Gill	Signal Strength Estimation of Wireless Communication System	International Journal of Advanced Research in Computer Engineering & Technology (IJARCET)	Vol. 3, Issue 8,pp. 2612-2617, ISSN: 2278-1323	August, 2014	International	ijarcet.org/wp-content/.../IJARCET-VOL-3-ISSUE-8-2612-2617.pdf	Scribd, Google scholar, Slideshare, citeulike, index copernicus, open access journals,.docstac.
2.	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	http://www.sciencedomain.org/download.php?f=Jain4252014BJAST10586_1.pdf&type=a&aid=5193	cross ref,ISI Web of Science
3.	Ravinder Singh, Sandeep Singh , Ramandeep Singh	Multiple Circuit Partitioning Implementation Using Primal Dual Approach	International Journal of Modern Communication Technology & Research (IJMCTR)	Vol. 2, Issue 10, pp. 14-16, ISSN:2321-0850	October, 2014	International	https://www.erpublisher.org/admin/vol_issue2/.../IJMCTR022009.pdf	http://www.erpublisher.org/IJMCTR/Indexing.htm
4.	Kiranpreet Singh, Sandeep Singh , Ramandeep Singh	Hybrid Technique Based VLSI Design Automation	International Journal of Modern Communication Technology & Research (IJMCTR)	Vol. 2, Issue 10, pp. 11-13, ISSN: 2321-0850	October, 2014	International	https://www.erpublisher.org/admin/vol_issue2/.../IJMCTR022008.pdf	http://www.erpublisher.org/IJMCTR/Indexing.htm
5.	Simranjeet Singh Puaar, Sandeep Singh Gill	Power Evaluation of Adiabatic Logic Circuits in 45nm Technology	International Journal of Electronics and Communication Engineering & Technology (IJESET)	Vol. 5, Issue 12, pp. 230-237, ISSN: 0976 – 6464	December, 2014	International	http://www.iaeme.com/MasterAdmin/UploadFolder/POWER%20EVALUATION%20OF%20ADIABATIC%20LOGIC%20CIRCUITS%20IN%2045NMTechnology.pdf	ICI, http://www.iaeme.com/ijecet/IJECETai.asp

							5NM%20TECHNOLOGY/POWER%20EVALUATION%20OF%20ADIABATIC%20LOGIC%20CIRCUITS%20IN%2045NM%20TECHNOLOGY.pdf.	
6.	Deepak Kapila and Sandeep Singh Gill	A Hybrid Approach for Scheduling in WIMAX for Reduction of Process Waiting Time	International Journal of innovation and Applied Studies	Vol. 9, No. 4, pp. 1620-1625, ISSN: 2028 – 9324	December, 2014	International	http://www.issr-journals.org/links/papers.php?journal=ijias&application=pdf&article=IJIAS-14-272-17.	http://www.ijias.issr-journals.org/indexing.php
7.	Surekha Rani, Balwinder Singh Dhaliwal, Sandeep Singh Gill	Differential Evolution Biogeography Based Optimization for Linear Phase Fir Low Pass Filter Design	Chemical and Process Engineering Research	Vol.31, ISSN: 2224-7467	March, 2015	International	http://www.iiste.org/Journals/index.php/CPER/article/view/20354.	http://iiste.org/Journals/index.php/CPER
8.	Amritansh Saini, Sandeep Singh Gill, Ramandeep Singh	Design and Comparative analysis of Thin Film Transistor	International Journal of Enhanced Research in Science Technology & Engineering	Vol. 4, Issue 4, pp. 55-61, ISSN: 2319– 7463	April, 2015	International	http://www.erppublications.com/uploaded_files/download/download_10_04_2015_17_23_11.pdf	http://www.erppublications.com/indexing.php
9.	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	doi:10.1016/j.ijleo.2014.04.010	<u>https://www.elsevier.com/journals/optik/0030-4026/abstracting-indexing-(WOS, Scopus, SCI)</u>
10.	Rashmi, Ameeta Seehra	Detection and Prevention of Black-Hole Attack in MANETS	International Journal of Computer Science Trends and Technology (IJCST)	Vol. 2, Issue 4, pp.204-209, ISSN: 2347-8578	August, 2014	International	www.ijcstjournal.org/volume-2/issue-4/IJCST-V2I4P37.pdf	http://www.ijcstjournal.org/volume-2/issue-4/IJCST-V2I4P37.pdf

11.	Harpreet Kaur and Ameeta Seehra	Performance Evaluation of Energy efficient Clustering Protocol for Cluster Head Selection in Wireless Sensor Networks	International Journal of Peer to Peer Networks (IJP2P)	Vol. 5, No. 3, pp. 1-13	August, 2014	International	doi:10.5121/ijp2p.2014.5301	http://www.ijestjournal.org/indexing.html
12.	Rashmi, Ameeta Seehra	A Novel Approach for Preventing Black- Hole Attack in MANETS	International Journal of Ambient Systems and Applications (IJASA)	Vol. 2, No. 3, pp. 1-9	September, 2014	International	http://airccse.org/journal/ijasa/papers/2314asa01.pdf.	http://airccse.org/journal/ijasa/indexing.html
13.	Harpreet Kaur and Ameeta Seehra	Performance Evaluation of Cluster Head Selection using ANFIS	International Journal of Current Engineering and Technology	Vol. 4, No. 6, pp. 3871-3875, ISSN: 347-5161	December, 2014	International	http://impressco.com/wp-content/uploads/2014/11/Paper163871-3875.pdf.	http://airccse.org/journal/ijasa/indexing.html
14.	Anita Yadav, Ameeta Seehra	Mobile Channel Estimation Using M-SMFTF Adaptive Algorithm	International Journal of Electrical, Electronics and Data Communication	Vol. 3, Issue 1, pp. 50-53, ISSN: 2320-2084	January, 2015	International	http://iraj.in/up_proc/pdf/120-141991616330-33.pdf.	http://iraj.in/journal/IJEDC/aboutus.php
15.	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	doi:10.1007/s00521-015-1879-y	Science Citation Index Expanded (SciSearch), Journal Citation Reports/Science Edition, SCOPUS, INSPEC, Zentralblatt Math, Google Scholar, EBSCO Discovery Service, CSA, Academic OneFile, Academic Search, ACM Digital Library, Computer Science Index, CSA Environmental

							Sciences, Current Contents/Engineering, Computing and Technology, DBLP, EI-Compendex, Gale, io-port.net, OCLC, PASCAL, Referativnyi Zhurnal (VINITI), SCImago, Summon by ProQuest	
16.	Parampal Singh and Balwinder Singh Dhaliwal	An Efficient Hybrid SIMBO-GA Approach to Design FIR Low Pass Filter	Journal of Information Engineering and Applications	Vol.5, No.2, pp. 43 – 49, ISSN 2224-5782	2015	International	http://www.iiste.org/Journals/index.php/JIEA/article/view/20342 .	http://iiste.org/Journals/index.php/JIEA
17.	Harjot Kaur Gill, Balwinder Singh Dhaliwal, Kuldeepak Singh	Performance Analysis of OFDM FSO System using ODSB, OSSB and OVSB Modulation Scheme by Employing Spatial Diversity	International Journal of Engineering Development and Research	Vol. 3, Issue 2, pp. 1384 – 1389, ISSN: 2321-9939	2015	International	https://www.ijedr.org/papers/IJEDR1502226.pdf .	http://www.ijedr.org/indexing.php
18.	Mukta Sharma, Balwinder Singh Dhaliwal	Design of Rectangular Microstrip Patch Antenna using Self-adaptive Bacterial Foraging Optimization	International Journal of Current Engineering and Scientific Research (IJCESR)	Vol. 2, No. 6, 2015, pp. 50-55	June, 2015	International	http://troindia.in/journal/ijcesr/vol2is6/50-55.pdf	http://troindia.in/journal/ijcesr/Vol2_Iss6.html
19.	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	doi:10.2528/PIERC13110902	Elsevier's SCOPUS and Compendex
20.	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	doi:10.1049/iet-map.2013.0695	(SCI,SCOPUS,SCI E, WOS) http://webcache.googleusercontent.com/search?q=cache:oJOBKkKiwgAJ:d

								http://digital-library.theiet.org/files/Journal_Indexing.pdf+&cd=1&hl=en&ct=clnk&gl=in
21.	Harminder Kaur	Energy Saving Routing Protocol With Power Consumption Optimization In MANET	International Journal Of Research In Computer Application And Management	Volume No. 5 Issue no. 04, ISSN 2231-1009	April, 2015	International		http://ijrcm.org.in/
22.	Harjit Singh, Chahat Jain	Design Synthesis of Fractal Antenna on Mushroom Type AMC in the Vicinity of 2.4 GHz	International Journal of Advances in Engineering Science and Technology (IJAEST)	Vol. 3, No. 3, pp. 172-179, ISSN:2319-1120	December, 2014	International	http://www.sestdia.org/wp-content/uploads/2014/12/Volume-3Number-3PP-172-179x.pdf .	http://www.ijaestonline.com/
23.	Rajandeep Singh, Chahat Jain	A Spirally Slotted Microstrip Antenna with Improved Bandwidth for Lower C Band Applications	International Journal of Advances in Engineering Science and Technology (IJAEST)	Vol. 3, No. 3, pp. 180-186, ISSN:2319-1120	December, 2014	International	http://www.sestdia.org/wp-content/uploads/2014/12/Volume-3Number-3PP-180-186x.pdf .	http://www.ijaestonline.com/
24.	Sandeep Kaur, Simranjit Kaur	CPW Fed Circular Truncated Patch Antenna for Modern Wireless Communication System	International Journal of Science, Technology & Management	Vol. 3, Issue 12,pp. 109-113, ISSN: 2394-1437	December, 2014	International	http://www.ijstm.com/images/short_pdf/1419100418_P109-113.pdf .	http://www.ijstm.com/

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S No.	Name of Author(s)	Title of Paper	Name of the Journal	Volume No. /IssueNo./ Page numbers/ ISSN	Month, Year of Publication	National/ International	DOI	Indexing
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	http://dx.doi.org/10.1155/2016/2089714	Scopus https://www.hindawi.com/journals/jeai/
2.	Sandeep Singh Gill, Jaidev Kausik, Navneet Kaur	Performance Analysis of 20 nm Pentagonal and Trapezoidal Nanowire Transistor with Si and Ge Channel	International Journal of Circuits and Electronics	Vol. 1, pp. 174-184, ISSN: 2367-8879	March, 2016	International	http://www.iaras.org/iaras/filedownloads/ijce/2016/004-0025.pdf	ELSEVIER®, http://www.iaras.org/iaras/journals/ijce
3.	Parneet Kaur, Ameeta Seehra	Lifetime Improvement of DEEC and DDEEC Protocol using Sleep Awake Mechanism in Wireless Sensor Networks	International Journal of Engineering Development and Research (IJEDR)	Vol. 3, Issue 4, pp. 1087-1090, ISSN: 2321-9939	December, 2015	International	file:///C:/Users/office%20ece/Downloads/IJEDR1504187.pdf	https://www.ijedr.org/viewfull.php?&p_id=IJEDR1504187
4.	Ritu, Ameeta Seehra	Optimized Cooperative Spectrum Sensing in Cognitive Radio Networks Based on Dynamic Threshold Energy Detector	International Journal of Engineering Development and Research (IJEDR)	Vol. 4, Issue 1, pp. 17-20, ISSN: 2321-9939	January, 2016	International	file:///C:/Users/office%20ece/Downloads/IJEDR1601004%20(1).pdf	https://www.ijedr.org/viewfull.php?&p_id=IJEDR1601004
5.	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	10.1007/s13534-015-0193-z	SCOPUS, Google Scholar, EI-Compendex, OCLC, SCImago, Summon by ProQuest

6.	Harleen Kaur and Balwinder Singh Dhaliwal	Experimental Simulative Analysis Feed Point of Rectangular U Slot Microstrip Patch Antenna	International Journal of Computer Applications	Vol. 129, No. 11, pp. 10 – 15	November, 2015	International	doi: 10.5120/ijca2015906933	EBSCO, Google Scholar, Informatics, ProQuest CSA Technology Research Database, NASA ADS, CiteSeer, UlrichWeb, ScientificCommons (Univ. of St Gallens), University of Karlsruhe, Germany, PennState University
7.	Aysha Sharma and Balwinder Singh Dhaliwal	Digital Filter Design using Soft Computing Approaches	Research Cell : An International Journal of Engineering Sciences	Vol. 17, No. 1, pp. 255 – 262.	January, 2016,	International	http://ijoes.vidyapublications.com/paper/Vol17/36-Vol17.pdf	http://ijoes.vidyapublications.com/
8.	Harleen Kaur and Balwinder Singh Dhaliwal	Numerical Analysis of Slot Position of Rectangular U Slot Microstrip Patch Antenna	International Journal of Wireless and Microwave Technologies	vol. 6, no. 3, pp. 29-39	May, 2016.	International	DOI: 10.5815/ijwmt.2016.03.04	Google Scholar, Microsoft Academic Search, DOAJ, Open Access Articles, CNKI, Scirus, GetInfo, WordCat, OneSearch, ZB MED, CrossRef etc..
9.	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	DOI: 10.1007/s00521-016-2402-9	Science Citation Index Expanded (SciSearch), Journal Citation Reports/Science Edition, SCOPUS

10.	Nitika Sharma, Balwinder Singh Dhaliwal and Simranjit Kaur	Design of A Fractal Slot Antenna for Rectenna System and Comparison of Simulated Parameters for Different Dimensions	CPUH-Research Journal	vol. 1, no. 2, pp. 43-48	July 8, 2015	National	http://www.cpuh.in/academics/academic_journals.php	
11.	Gagandeep Kaur, Chahat Jain, Munish Rattan	Review of Antennas Deploying Fractal Slot Geometries	IOSR Journal of Electronics and Communication Engineering (IOSR-JECE)	Special Issue, pp. 42-48, ISSN: 2278-8735	April, 2016	International	http://www.iosrjournals.org/iosr-journal/papers/Conf.15010/Volume%201/H.ECE-151.pdf .	NASA, Crossref, ANED, ARXIV.org
12.	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	10.1080/03772063.2015.1135086	(WOS, Scopus) http://www.tandfonline.com/action/journalInformation?journalCode=tijr20
13.	Amandeep Kaur, Baljeet Kaur	Performance Investigation of CO-OFDM WDM-RoF Networks with different Modulation Techniques abd Dispersion Compensation using FBG	International Journal of Innovative Research in Computer and Communication Engineering	Vol. 3, Issue 8,pp. 7230-7236, ISSN: 2320-9798	August, 2015	International	10.15680/IJIRCCE.2015. 0308	link (http://ijircce.com/indexing.html)
14.	Neha, Baljeet Kaur	MATLAB and K-Wave Based Outdoor Ray Propagation Predictor Tool SNELLIIX for Surface Wave Modelling	Innovative Systems Design and Engineering	Vol. 6 No. 11, pp. 7-19, ISSN (paper): 2222-1727, ISSN (online): 2222-2871	August, 2015	International	http://iiste.org/Journals/index.php/ISDE/article/view/26987	EBSCO (U.S.), Index Copernicus (Poland), Google Scholar
15.	Harminder Kaur	A Survey of Hybrid Cluster-Based Energy Efficient Routing Protocols in Wireless Sensor Networks	International Journal of Electrical and Electronics Engineers	Vol. 7, Issue 2,	July-December, 2015	International		

16.	Shruti Sharma, Ravneet Kaur, Vinay Kumar, Chahat Jain	Solar Energy Based Warehouse Control System	IOSR Journal of Electronics and Communication Engineering (IOSR- JECE)	Special Issue, pp. 38-42, ISSN: 2278-8735	April, 2016	International	http://www.iosrjournals.org/iosr-jece/papers/Conf.15010/Volume%201/G.ECE-147.pdf .	NASA, Crossref, ANED, ARXIV.org
17.	Sandeep Singh, Chahat Jain, Daljit Singh	A Novel Approach based on Reliable Messaging Protocol for Sensor Network Navigation without Locations	IOSR Journal of Electronics and Communication Engineering (IOSR- JECE)	Special Issue, pp. 49-54, ISSN: 2278-8735	April, 2016	International	http://www.iosrjournals.org/iosr-jece/papers/Conf.15010/Volume%201/I.ECE-155.pdf .	NASA, Crossref, ANED, ARXIV.org
18.	Amandeep Kaur, Jasmeet Kaur, Nishu Kansal	Performance Analysis of MANET Using Efficient Power Aware Routing Protocol (EPAR)	IOSR Journal of Electronics and Communication Engineering (IOSR- JECE)	Special Issue- AETM'16, pp. 105-109, ISSN : 2278-2834 P- ISSN: 2278-8735	2016	International	http://www.iosrjournals.org/iosr-jece/papers/Conf.15010/Volume%201/R.ECE-153.pdf .	NASA, Crossref, ANED, ARXIV.org

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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	DOI: 10.1515/joc-2016-0075	(Elsevier - SCOPUS) https://www.degruyter.com/view/j/joc?rskey=cYFcyc&result=3
2.	Navneet Kaur, Sandeep Singh Gill and Munish Rattan	Performance Analysis of Dual Material Gate (DMG) Symmetric Dual-k Spacer (SDkS) Tri-Gate FinFET	The Institution of Engineers (India), Electronics and Telecommunication Engineering Division Board, Annual Technical Volume	pp.98-102, ISBN : 978-81-932567-1-8	October, 2016	National	—	Scopus, https://www.ieindia.org/PDF_IMAGES/CouncilData/ATV_ETDB.pdf
3.	Gurpurneet Kaur Sandeep Singh Gill Munish Rattan	Design and Electrical Analysis of 3-fin SOI FinFET for Si, SiGe, GaAs and InGaAs Channel Materials	The Institution of Engineers (India), Electronics and Telecommunication Engineering Division Board, Annual Technical Volume	pp.18-21, ISBN : 978-81-932567-1-8	October, 2016	National	—	https://www.ieindia.org/PDF_IMAGES/CouncilData/ATV_ETDB.pdf
4.	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	March, 2017	International	https://doi.org/10.1155/2017/5947819	Scopus, https://www.hindawi.com/journals/ap/ec/ai/
5.	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. 167-172, ISSN: 2367-8879	March, 2017	International	10.1007/s12204-017-1817-5	http://www.springer.com/engineering/electronics/journal/12204

6.	Jaspreet Kaur, Balwinder Singh Dhaliwal and Sandeep Singh Gill	Offline Handwritten Gurmukhi Character Recognition using Particle Swarm Optimized Neural Network	International Journal of Computer Applications Proceedings on International Conference on Advancements in Engineering & Technology (ICAET-2016)	Vol. 12, pp. 35 – 41.	September, 2016,	International	https://pdfs.semanticscholar.org/277dd6de37f518539ea28b0f0c109e31fc3703e9.pdf	http://www.ijcaonline.org/indexing.html
7.	Suman, Balwinder Singh Dhaliwal, Shyam S. Pattnaik, and Harish K. Sardana	Perturbed Rectangular Sierpinski Carpet Geometry Based Miniaturized Fractal Patch Antenna	International Journal of Electronics Engineering Research	Vol. 9, No. 3, pp. 353 – 362.	2017	International	https://www.ripublication.com/ijeer17/ijeerv9n3_06.pdf	https://www.ripublication.com/ijeer.htm
8.	Narwant Singh Grewal, Munish Rattan, Manjeet Singh Patterh	A Linear Mutually Coupled Parallel Dipole Antenna Array Failure Correction Using Bat Algorithm.	Progress In Electromagnetics Research M	Vol. 54, pp.9–18, ISSN: 1937-8726	February, 2017	International	http://www.jpier.org/PIERM/pierm54/02.16120202.pdf	(Elsevier's SCOPUS)
9.	M. Kaur, Munish Rattan, P. Singh	Automatic Segmenting Structures in MRI's Based on Texture Analysis and Fuzzy Logic	Sensing and Imaging	Vol. 18, No. 2, E ISSN:1557-2072	December, 2016	International	DOI:10.1007/s11220-016-0151-6	scopus
10.	Gagandeep Kaur, Munish Rattan & Chahat Jain	Optimization of Swastika Slotted Fractal Antenna using Genetic Algorithm and Bat Algorithm for S-band Utilities	Wireless Personal Communications	Vol. 97, pp. 95–107	May, 2017	International	https://doi.org/10.1007/s11277-017-4495-6	SCIE (1.061)
11.	Avneet Kaur, Baljeet Kaur, Kuldeepak Singh	Design and Performance analysis of bidirectional TWDM-PON employing QAM-	Optik - International Journal for Light and Electron Optics	Vol. 134, ISSN: 0030-4026,pp. 287-294	April, 2017	International	doi.org/10.1016/j.jleo.2017.01.009	SCIENCE CITATION INDEX, SCOPUS

		OFDM for downstream and remodulation for upstream						
12.	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,I SSN: 0929-6212, pp.793-807	June, 2017	International	10.1007/s11277-016-3651-8	https://www.springer.com/engineering/signals/journal/11277/PSE?detailsPage=aboutThis
13.	Rubeka, Gurinder Singh, Baljeet Kaur	Design of CO-OFDM WDM-RoF Network with different Modulation Techniques and Dispersion Compensation using FBG	International Journal of Engineering Applied Science and Technology	Vol.2, Issue 1, ISSN: 2455-2143, pp.49-53	November-December 2016	International	http://www.ijeast.com/papers/49-53,Tesma201,IJEAST.pdf	https://www.ijeas.org/
14.	Vibhuti, Gurinder Singh, Baljeet Kaur	Comparison Analysis of Ultra, Visible, and Infra high Capacity Intersatellite Optical Wireless Communication System using Distinct Modulation Formats	International Journal of Engineering Applied Science and Technology	Vol.2, Issue 1, ISSN: 2455-2143,pp.62-66	November-December 2016	International	https://www.ijeast.com/papers/62-66,Tesma201,IJEAST.pdf	https://www.ijeas.org/
15.	Chatarpratap Singh Sohi, Karamjeet Singh, Davinder K. Thakur, Gurpurneet Kaur	Design and Performance Analysis of different shapes of Trigate FinFET at 20nm	International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering	Vol. 4, Issue 10, pp. 72-77, ISSN (Online) 2321 – 2004, ISSN (Print) 2321 – 5527	October, 2016	International	DOI 10.17148/IJIREEICE.2016.41015	http://www.ijireeice.com/upload/2016/october-16/IJIREEICE%2015.pdf
16.	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	DOI 10.1007/s12596-016-0341-6	SCOPUS

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1.	Jashanjot Kaur, Sandeep Singh Gill, Gurpurneet 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, pp. 72-80, ISSN-2250-0588 (Online)	June 2018,	International	https://indusedu.org/pdfs/IJREISS/IJREISS_1991_48453.pdf	http://indusedu.org/indexing.php,(UGC approved Journal No. 42301)
2.	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	Vol. 35, Issue 2, pp 141–150, ISSN: 1387-974X. (SCI/Scopus indexed	April, 2018	International	https://doi.org/10.1007/s11107-017-0738-4	Science Citation Index, Science Citation Index Expanded (SciSearch), SCOPUS
3.	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	http://mjee.iaumajlesi.ac.ir/index/index.php/ee/about/editorialPolicies#custom-0. (Scopus)	
4.	Sanjeev Kumar, Sandeep Singh Gill, Kuldeepak Singh	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	https://doi.org/10.1007/s11277-017-4926-4	(SCI/Scopus indexed)

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11.	Pushkar Mishra, Shyam Sunder Pattnaik and Balwinder Singh Dhaliwal	Modified Concentric Rings Based Square Shaped Fractal Antenna for Wi-Fi& WiMAX Application	International Journal of Electronics Engineering Research	Vol. 9, No. 7, pp. 1005 – 1012.	2017	International	https://www.ripublication.com/ijeer17/ijeerv9n7_07.pdf	https://www.ripublication.com/ijeer.htm
12.	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	DOI 10.1007/s11277- 017-4157-8	Science Citation Index Expanded (SciSearch), Journal Citation Reports/Science Edition, SCOPUS
13.	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		Elsevier's SCOPUS and Compendex now
14.	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	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)
15.	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)	Vol.154, pp.755- 762	February, 2018	International	https://doi.org/10.1016/j.ijleo.2017.10.108	SCIE, SCOPUS

16.	Harsimranjit Kaur, Kuldeepak Singh and Tarandeep Singh	A Review on OFDM-FSO System	Advanced Research in Electrical and Electronic Engineering	Vol. 5, Issue 2, April-June, 2018, pp. 110-112, e-ISSN: 2349-5812	April-June, 2018	International	scopus	https://www.krishianskriti.org/vol_image/04Nov201807115705%20%20%20%20%20%20%20%20%20Harsi mranjit%20Kaur%20%20%20%20%20%20%20%20%20110-112.pdf
17.	Ravinder Kaur, Palwinder Kaur , Gagandeep Singh, Gurpreet Singh	Programmatir Buying vs. Traditional Paid Marketing Approaches	International Journal for Scientific Research & Development (IJSRD)	Vol. 5, Issue 5, pp.1207-1210, ISSN (online): 2321-0613	August, 2017	International	http://www.ijsr.com/articles/IJSRDV5I50476.pdf	http://ijsr.com/V5I50476.pdf
18.	Ravinder Kaur, Palwinder Kaur , Gagandeep Singh, Gurpreet Singh	Impact of Marketing Automation Customer Engagement 7 Retention	International Journal for Scientific Research & Development (IJSRD)	Vol. 5, Issue 5, pp. 1083-1086, ISSN (online): 2321-0613	August, 2017	International	http://www.ijsr.com/articles/IJSRDV5I50051.pdf	http://ijsr.com/V5I50051.pdf
19.	Taranjit Kaur , Barjinder 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)	Vol. 38, Issue 2, 2018, pp. 409-424	2018	International	https://doi.org/10.1016/j.bbe.2018.02.008	SCOPUS
20.	Taranjit Kaur , 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.	Australasian Physical & Engineering Sciences in Medicine	Vol.41, Issue 1, pp 41-58	May, 2018	International	https://www.ncbi.nlm.nih.gov/pubmed/29238919	Science Citation Index Expanded (SciSearch), Journal Citation Reports/Science Edition, Medline, SCOPUS

21.	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	http://www.worldscientific.com/page/ijig/abstracted-indexed	SCOPUS
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S No.	Name of Author(s)	Title of Paper	Name of the Journal	Volume No./IssueNo./ Page numbers/ ISSN	Month, Year of Publication	National/ International	DOI	Indexing
1.	Navneet Kaur, Munish Rattan, Sandeep Singh Gill	Design and Optimization of Novel Shaped FinFET	Arabian Journal for Science and Engineering	Vol. 44, Issue 4, pp 3101–3116	July, 2018	International	https://doi.org/10.1007/s13369-018-3428-3	Scopus, SCIE
2.	Gurmukh Singh, Munish Rattan, Sandeep Singh Gill , Nitin Mittal	Hybridization of water wave optimization and sequential quadratic programming for cognitive radio system	Soft Computing	pp. 7991–8011	August, 2018	International	https://doi.org/10.1007/s00500-018-3437-x	Scopus, SCIE
3.	Satyam Shukla, Sandeep Singh Gill , H S Jatana, Varun Nehru, Navneet Kaur	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	https://doi.org/10.1007/s12046-018-0945-4	SCIE (0.849)
4.	Parveen Kumar, Sandeep Singh Gill	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	https://doi.org/10.1166/jno.2018.2426	SCI/Scopus
5.	Navneet Kaur, Munish Rattan, Sandeep Singh Gill	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	https://doi.org/10.1166/jno.2019.2530	SCI/ Scopus

6.	Kiranjeet Kaur, Sandeep Singh Gill, Navneet kaur	A Review on Non-Conventional Analog Circuit Design Techniques for Low Voltage Low Power Operation	International Journal of Research in Advent Technology	Vol.7, No.5, E-ISSN: 2321-96, pp. 567-572	May, 2019	International	DOI:10.32622/ijrat.752019341	http://ijrat.org/downloads/Vol-7/may-2019/752019341.pdf
7.	Sameeksha Munjal, Gurpurneet Kaur, Sandeep Singh Gill	Design of Ring Oscillator at 45NM Technology Using Fault Tolerant Delay Cell	International Journal of Scientific Research and Engineering Development-	Vol.3, Issue 3, pp. 889-892, ISSN : 2581-7175	June, 2020	International	http://www.ijsred.com/volume3/issue3/IJSRED-V3I3P118.pdf	http://www.ijsred.com/
8.	Harpreet Kaur, Narwant Singh, Gurjot Kaur Walia	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	https://doi.org/10.1016/j.ijleo.2018.09.032	SCIE (2.187)
9.	Suman Pattnaik, Balwinder Singh Dhaliwal, SS Pattnaik	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	https://doi.org/10.1007/s12046-019-1116-y	SCIE (0.849)
10.	Suman Pattnaik, Shyam S.Pattnaik and Balwinder Singh Dhaliwal	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	doi:10.1002/jnm.2549	Scopus, SCIE (0.833)
11.	Harpreet Kaur and Munish Rattan	Hybrid Algorithm Based Effective Light Trail Creation in an Optical Networks	Journal of Optical Communications	ISSN 2191-6322	January 2019	International	https://doi.org/10.1515/joc-2018-0209	Scopus
12.	Shruti Sharma, Munish Rattan	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	DOI: 10.2174/1874120701913010033	Scopus

13.	Ashish Thakur, Munish Rattan	Implementation of convolution coded OFDM through different channel models on SDR platform	<u>International Journal of Information Technology</u>	Print ISSN: 2511-2104, Online ISSN: 2511-2112	December, 2018	International	DOI:10.1007/s41870-018-0265-2	Scopus
14.	Shivangi Pathania, Baljeet Kaur and Kuldeepak Singh	Spectrum Sliced WDM using Array Waveguide Grating in Free Space Optical Communication	Advances in Computer Science and Information Technology (ACSIT)	Vol. 5, Issue 2, pp. 68-72, p-ISSN: 2393-9907, e-ISSN: 2393-9915,	April-June, 2018	International	https://www.krishisanskriti.org/vol_image/02Nov201802113407%20%20%20%20%20Shivangi%20%20%20%20%20%20%20%20%20%20%20%20%20%20%2068-72.pdf	Scopus
15.	Rajvir Kaur, Avneet Kaur and Baljeet Kaur	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	https://www.krishisanskriti.org/vol_image/24Oct20191105801%20%20%20%20Rajvir%20Kaur%20%20%20%20%20%20%20%20%20%20%20%20%20%201-5.pdf	Scopus
16.	Rajvir Kaur and Baljeet Kaur	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	https://www.krishisanskriti.org/vol_image/24Oct20191105801%20%20%20%20Rajvir%20Kaur%201-5.pdf	Scopus
17.	Kanwarpreet Kaur, Gurjot Kaur Walia & Jaspreet Kaur	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	https://doi.org/10.1007/s40031-018-0355-3	Scopus

18.	Samjot kaur Aujla, Navneet Kaur	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	https://doi.org/10.1080/03772063.2019.1620640	SCIE
19.	Chahat Jain , Saroop singh	Feed Point Optimization of Koch-Minkowski Hybrid Boundary antenna for ISM Band	Wireless Personal Communications	Vol.108, Issue 4, pp. 2403–2414	May, 2019	International	https://doi.org/10.1007/s11277-019-06528-2	SCIE (1.061)
20.	Taranjit Kaur, Baljinder Singh Saini, Savita Gupta	A comparative study on Kapur's and Tsallis entropy for multilevel thresholding of MR images via particle swarm optimisation technique	International Journal of Computational Systems Engineering	Vol. 4, Issue 2-3, Print ISSN: 2046-3391 Online ISSN: 2046-3405	November, 2018	International	https://www.inde科学online.com/doi/pdf/10.1504/IJCSYE.2018.091395	https://www.inde科学.com/jhome.php?jcode=ijcsye#about-content

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1.	Gurpurneet Kaur, Sandeep Singh Gill, Munish Rattan	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	http://www.ceser.in/ceserp/index.php/ijai/article/view/6376	Scopus
2.	Shashi Bhushan, Sandeep Singh Gill, Kuldeepak Singh Saini	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	https://doi.org/10.1504/IJSNET.2019.101572	Scopus
3.	Pulkit Jain, Debjyoti Malik, Sandeep Singh Gill, Paras Chawla	ASIC design of 4K-point RADIX-2 FFT in 0.18 µm CMOS technology	International Journal of Information Technology	Vol.12, pp.1427–1433(2020), Print ISSN: 2511-2104;Online ISSN: 2511-2112	August, 2019	International	https://doi.org/10.1007/s41870-019-00334-6	Scopus
4.	Amritpal Kaur, Balwinder Singh Dhaliwal, 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	https://www.ijitee.org/wp-content/uploads/papers/v8i9S/I10650789S19.pdf	Scopus
5.	Balwinder Singh Dhaliwal, Gaganpreet Kaur, Navreet	A Modified Two-Step ANN Ensemble Approach to Improve Generalization	International Journal of circuits, systems and computers	Vol. 29, Issue 07, ISSN 1793-6454	June, 2020	International	https://doi.org/10.1142/S0218126620501066	SCIE (1.363)

	Saini, Shyam Sundar Pattnaik, Simranjit Kaur	and its Application in Fractal Antenna Design						
6.	Harpreet Kaur, Narwant Singh, Gurjot Kaur Walia	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	https://doi.org/10. 1002/mop.31807	SCIE (0.957)
7.	Chetanjot Kaur, Narwant Singh Grewal	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	https://www.ijitee. org/wp- content/uploads/pa pers/v8i9S/I11180 789S19.pdf	Scopus
8.	Navleen Kaur, Munish Rattan, Chahat Jain	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	https://www.ijitee. org/wp- content/uploads/pa pers/v8i9S/I11110 789S19.pdf	Scopus
9.	Sumit Bansal, Munish Rattan	Design of cognitive radio system and comparison of modified whale optimization algorithm with whale optimization algorithm	International Journal of Information Technology	—	August, 2019	International	https://doi.org/10. 1007/s41870-019- 00346-2	Scopus
10.	Harpreet Kaur, Munish Rattan	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	https://doi.org/10. 1007/s11277-019- 06796-y	SCIE (1.061)
11.	Harpreet Kaur, Munish Rattan	Improved offline multi- objective routing and wavelength assignment in optical networks	Frontiers of Optoelectronics	Vol.12, pp. 433– 444	December, 2019	International	https://doi.org/10. 1007/s12200-019- 0850-4	Scopus

12.	Kiranjot Kaur, Munish Rattan , 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	https://doi.org/10.1007/s11277-020-07104-9	SCIE (1.061)
13.	A. S. Kang , Sanjeev Bhatia , Navneet Kaur & Kuldeepak Singh	Performance evaluation of various hybrid modulation techniques transmitted by EDFA in radio-over-fibre communication	Journal of Information and Telecommunication	Vol. 4, Issue 3, pp. 295-313	March, 2020	International	DOI: 10.1080/24751839.2020.1732766	Taylor and Francis (ProQuest Technology Collection and ProQuest SciTech Premium Collection)
14.	Rupinder Kaur and Kuldeepak Singh	Performance Analysis of Shift ZCC Codes and Multi Diagonal Codes in 100 Gbps MDM-FSO System	Journal of Optical Communications	—	April, 2020	International	https://doi.org/10.1515/joc-2019-0264	Scopus
15.	Archana Madan, Daljit Singh	An optimized hybrid filter designing for speckle and gaussian noise reduction in ultrasound images	International Journal of Innovative Technology and Exploring Engineering	Vol. 8, Issue-9S, pp.836-842, ISSN: 2278-3075	July, 2019	International	https://www.ijitee.org/wp-content/uploads/papers/v8i9S/I11350789S19.pdf	Scopus
16.	Preeti Pannu , Devendra Kumar Sharma	A low-profile quad-port UWB MIMO antenna using defected ground structure with dual notch-band behavior	International Journal of RF and Microwave Computer-Aided Engineering	Vol. 30, Issue 9,	September, 2020	International	https://doi.org/10.1002/mmce.22288	SCIE (1.528)
17.	Preeti Pannu , 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	DOI:10.1002/mop.32766	SCIE (0.957)

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1.	Gurpurneet Kaur, Sandeep Singh Gill, Munish Rattan	Artificial Neural Network and Genetic Algorithm Based Hybrid Intelligence for Performance Optimization of Novel Inverted Funnel Shaped Fin Shaped Field Effect Transistor with Gate Stack High-k Dielectric	Journal of Nanoelectronics and Optoelectronics	Vol.15, No.11, pp. 1385-1394(10), ISSN 1555-130X (Print), ISSN 1555-1318 (Online)	November, 2020	International	https://doi.org/10.1166/jno.2020.2880	SCIE (1.069)
2.	Gurpurneet Kaur, Sandeep Singh Gill, Munish Rattan	Impact of Lanthanum Doped Zirconium Oxide (LaZrO ₂) 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	https://doi.org/10.21307/ijssis-2020-032	Scopus
3.	Gurpurneet Kaur, Sandeep Singh Gill, Munish Rattan	Lanthanum Doped Zirconium Oxide (LaZrO ₂) High-k Gate Dielectric FinFET SRAM Cell Optimization	Transactions on Electrical and Electronic Materials	—	March, 2021	International	https://doi.org/10.1007/s42341-021-00296-2	Scopus
4.	Gurpurneet Kaur, Sandeep Singh Gill, Munish Rattan	Whale Optimization Algorithm Approach for Performance Optimization of Novel Xmas Tree-Shaped FinFET	Silicon	—	March, 2021	International	https://doi.org/10.1007/s12633-021-01077-5	SCIE (2.67)
5.	Nancy Ramanpreet, Munish Rattan & Sandeep Singh Gill	Compact and Low Profile Planar Antenna with Novel Metastructure for Wearable MBAN	Wireless Personal Communications	pp. 1-13	February, 2021	International	https://doi.org/10.1007/s11277-021-08182-z	SCIE (1.061)

		Devices						
6.	Chahat Jain, Balwinder Singh Dhaliwal, Rupinder Singh	Flexible and Wearable patch antenna using additive manufacturing : A Framework	Encylopedia of materials: Plastics and Polymers	Accepted (In press)	February, 2021	International	—	Elsevier
7.	Kiranjot Kaur, Munish Rattan , 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	10.2174/2210327910666200207115638	Scopus
8.	Sandeep Kumar Jain, Baljeet Kaur	Optimal Power Transmission For Various Spectrum Sharing Approaches In Ofdm Based Cognitive Radio Network	ICTACT Journal on Communication Technology	Vol. 11, Issue 3, ISSN: 2229-6948 (ONLINE)	September, 2020	International	DOI: 10.21917/ijct.2020.0329	UGC approved
9.	Pallavi Arora, Baljeet Kaur & 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	Vol.102, pp.605-616 (2021).	March, 2021	International	https://doi.org/10.1007/s40031-021-00563-z	Scopus
10.	Kamalpreet Kaur and Baljeet Kaur	Long Reach Dual Polarization 128-QAM System With Dispersion/ Nonlinear Compensation Using Optical Back Propagation	ICTACT Journal on Communication Technology	Vol.12, Issue No.02, pp. 2414-2417	June 2021,	International	DOI: 10.21917/ijct.2021.0357	UGC approved
11.	Sandeep Kumar Jain and Baljeet Kaur	Hybrid Sharing and Power Allocation using Waterfilling Algorithm for MIMO-OFDM based Cognitive Radio	ICTACT Journal on Communication Technology	Vol 12, No 2 , pp. 2406	June, 2021	International	DOI: 10.21917/ijct.2021.0355	other

		Network						
12.	Gurjot Kaur Walia, Jagroop Singh Sidhu	Image Demosaicing: A Roadmap to Peculiarity Imaging	Turkish Journal of Computer and Mathematics Education (TURCOMAT)	Vol.12, Issue No. 11, pp 3614-3623, e-ISSN: 1309-4653	May, 2021	International	https://turcomat.org/index.php/turkbiimat/article/view/6434/5332	Scopus
13.	Gurvirkaur, Kuldeepak Singh, Harsimranjit Singh Gill	Chaos-based joint speech encryption scheme using SHA-1	Multimedia Tools and Applications	Vol. 80, pp. 10927–10947, ISSN 1573-7721	March, 2021	International	10.1007/s11042-020-10223-x	SCIE (2.313)
14.	Ritesh Kumar Singh, Harsimranjit Singh Gill, Harminder Kaur	Localization in Wireless Sensor Networks Using Improved DV-Hop Algorithm	International Research Journal of Engineering and Technology	Vol. 8, Issue 3, pp. 305-308, e-ISSN: 2395-0056, p-ISSN: 2395-0072	March, 2021	International	https://www.irjet.net/archives/V8/i3/IRJET-V8I353.pdf	Google Scholar Academia.edu, Inno Space, Issuu, slideshare, mendeley, scribid, etc.
15.	Preeti Pannu, 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	https://doi.org/10.1108/WJE-09-2020-0423	Scopus

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1.	Navneet Kaur, Sandeep Singh Gill and Prabhjot Kaur	Performance Evaluation of Junctionless FinFET using Spacer Engineering at 15 nm Gate Length	Silicon	10989–11000 (2022)	March, 2022	International	https://doi.org/10.1007/s12633-022-01820-6	SCIE
2.	Chahat Jain, Balwinder S. dhaliwal, Rupinder Singh	On 3D Printed ABS Based Bluetooth Sensor: Rheological, Mechanical, Morphological, RF and 4D Capabilities	Journal of materials engineering and performance	Vol 31/issue 4	April, 2022	International	https://doi.org/10.1007/s11665-022-06884-4	SCIE (https://www.springer.com/journal/11665)
3.	Harminder Kaur, Baljeet Kaur, Manjeet Singh Bhamrah	A Comprehensive study on radio over fiber systems: present evaluations and future challenges	Journal of Optical Communications	ISSN:0173-4911E-ISSN:2191-6322	June, 2022	International	https://doi.org/10.1515/joc-2022-0040	SCOPUS
4.	Gurjot Kaur Walia, Jagroop Singh Sidhu	Content based Adaptive Image demosaicing using Random Forest Algorithm	SAMRIDDHI - A Journal of Physical Sciences, Engineering & Technology	14/2/2454-5767	June, 2022	International	https://smsjournals.com/index.php/SAMRIDDHI/article/view/2725	UGC-Care
5.	Gurjot Kaur Walia, Jagroop Singh Sidhu	Adaptive Image Demosaicing Algorithm Based on K-Nearest Neighbor for Improved Visual Quality	SAMRIDDHI : A Journal of Physical Sciences, Engineering and Technology	14/2/-/2454-5767	June, 2022	International	https://smsjournals.com/index.php/SAMRIDDHI/article/view/2732	UGC-Care
6.	Navneet Kaur, Samjot Kaur Aujla	Comparison of Electrical Characteristics of Si Homojunction and SiGe Heterojunction 14	Journal of The Institution of Engineers (India): Series B	—	January, 2022	International	https://doi.org/10.1007/s40031-021-00699-y	SCOPUS

		nm SOI FinFET						
7.	Harsimranjit Singh Gill, Tarandip Singh, Baldeep Kaur, Gurjot Singh Gaba, Mehedi Masud and Mohammed Baz	Metaheuristic Algorithms for Big Data Analytics within the Internet of Things	Wireless Communications and Mobile Computing	2021/ 1530-8669/ Article ID 7147940	October, 2021	International	https://doi.org/10. 1155/2021/714794 0	Science Citation Index Expanded/Web of Science

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S No.	Name of Author(s)	Title of Paper	Name of the Journal	Volume No. /IssueNo./ Page numbers/ ISSN	Month, Year of Publication	National/ International	DOI	Indexing
1.	Harleen Kaur, Narwant Singh Grewal	Performance enhancement of visible light communication (VLC) system incorporating WMZCC-OCDMA codes and PDM-QPSK-DSP data encoding	International Journal of Communication Systems	Volume 36, Issue1	January, 2023	International	https://doi.org/10.1002/dac.5355 ISSN 1099-1131	SCIE
2.	Harleen Kaur, Narwant Singh Grewal	Security enhancement of an integrated mode division multiplexed VLC system using two-dimensional WMZCC codes	Journal of Optics (Springer)	Vol 52, Issue 2, pp-1-13	June, 2023	International	10.1007/s12596-023-01216-8	ESCI
3.	Shivmanmeet Singh, Narwant Singh Grewal, Baljeet Kaur	Performance investigation and development of 112 gbit/s dual polarization 16 QAM transmission system using differential encoding	Optical and Quantum Electronics (Springer)	Vol. 55, issue-1, 70(2023) Jan., 2023, pp. 1-17	January, 2023	International	https://doi.org/10.1007/s11082-022-04287-2	SCIE
4.	Jaspreet Kaur, Narwant Singh Grewal, Navneet Kaur	A Review On Antenna Array Failure Correction Using Optimization Techniques	Journal of Emerging Technologies and Innovative Research (JETIR)	Vol. 9, Issue-8, pp. 177-181	August 2022	International	https://www.jetir.org/view?paper=JETIRFQ06033	UGC
5.	Munaza Yousf, Narwant Singh Grewal, Gurpurneet Kaur	Impact Of Work Function And Temperature Variation On Schottky-Barrier Hetero-Dielectric Gate All Around Nanowire	Journal of Emerging Technologies and Innovative Research (JETIR)	Vol. 9, Issue-8, pp. 167-176	August 2022	International	https://www.jetir.org/papers/JETIRFQ06032.pdf	UGC

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7.	Kamalpreet Kaur, Baljeet Kaur, Gurjot Kaur Walia	Performance Evaluation of PDM-256_QAM Intersatellite Optical Wireless System(IsOWC) using DSP and Different Wavelength Windows	Journal of Optical Communication	pp. 2191-6322	October, 2022	International	https://doi.org/10.1515/joc-2022-0119	Scopus
8.	Gurjot Kaur Walia , Jagroop Singh Sidhu	Hybridised KNN-Random Forest Algorithm: Image Demosaicing with Reduced Artifacts	National Academy Science Letters	pp. 2250-1754	September, 2022	International	https://doi.org/10.1007/s40009-022-01165-z	SCIE, Scopus
9.	Chahat Jain , Balwinder S. dhaliwal, Rupinder Singh, Suman Pattnaik	On 3D-Printed flexible and wearable sensors from primary recycled PVDF	National Academy Science letters		June, 2023	International	https://doi.org/10.1007/s40009-023-01322-y	SCIE, (1.1)
10.	Chahat Jain , Balwinder S. dhaliwal, Rupinder Singh, Suman Pattnaik	On Comparison of 3D-Printed ABS and PVDF-Based Sensors for Body-Centric Utility	Arabian journal for Science and Engineering	48, pages 12645–12655 (2023)	February, 2023	International	https://doi.org/10.1007/s13369-023-07658-3	SCIE, (2.807)

11.	Harsimranjit Singh Gill, Zhan Guo, Zuming Xiao, Roobaea Alroobaea, Abdullah M. Baqasah, Anas Althobaiti,	Design and Study of Urban Rail Transit Security System Based on Face Recognition Technology	An International Journal of Computing and Informatics	Vol 46, No 3, pp.429-438	November, 2022	International	https://doi.org/10.31449/inf.v46i3.3862	SCOPUS
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S No.	Name of Author(s)	Title of Paper	Name of the Journal	Volume No. /IssueNo./ Page numbers/ ISSN	Month, Year of Publication	National/ International	DOI	Indexing
1.	Shivmanmeet Singh, Narwant Singh Grewal, Baljeet Kaur	Analysis of hybrid PDM-4QAM-OFDM for inter-satellite/mechatronic telecommunication using FSO system	Opto-Electronics Review (Polish Academy of Sciences (PAN))	Vol. 31, issue-3, pp. 1-6	August, 2023,	International	Refereed	https://doi.org/10.24425/opelre.2023.147036
2.	Tarandeep Singh, Aseem Verma, Navneet Kaur, Manjeet Singh	Enhancing Conservation Seeding Techniques: A Vibration Analysis of Spatially Modified No-Till Drill in Combine Harvested Rice Fields	Proceedings of the Indian National Science Academy	Electronic ISSN: 2454-9983, Print ISSN: 0370-0046	September, 2023	International	Refereed	https://doi.org/10.1007/s43538-023-00207-4
3.	Shivmanmeet Singh, Narwant Singh Grewal and Baljeet Kaur	Analysis of hybrid PDM-4QAM-OFDM for inter-satellite/mechatronic telecommunication using FSO system	Opto-Electronics Review	Opto-Electronics Review 31 (2023) e147036	07 Aug. 2023	International	Refereed	https://doi.org/10.24425/opelre.2023.147036
4.	Harminder Kaur, Baljeet Kaur, Ridheyjot Kaur	A review on OTDM transmission techniques	Journal of engineering research and technology			International	Refereed	