


Title	<b>Dr.</b>	First Name	<b>Kamaljit Singh</b>	Last Name	<b>Bhatia</b>	
Designation	Associate Professor					
Dept. Name	ECE					
Address:	98, Gulmohar City Extension, Hoshiarpur Road, Jalandhar City-144009, Punjab, INDIA					
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Subjects Taught	BEEE, EMI, Control Engg.,ACS, DCS, WC, OFC, CN etc.					
Areas of Interest/Specialization	Optical-OFDM systems, Nano-Optices/Materials, Wireless Communication					
Experience (in years)	Total	21 years				
	Industry	--				
	Teaching	21years				
	Research	15 years				
Educational Qualification	UG	B.Tech EIE				
	PG	M.Tech ECE				
	Doctorate	Ph.D. ECE				
	Any other					
Research Publications in Journals	As Under					

S. No	Title of paper with Page No.	Journal's	ISSN/ISBN No.	Whether peer reviewed. Impact factor, if any	No. of co-authors
1	Influence of Co-In Doping in M-Type Barium–Strontium Hexagonal Ferrite on Microwave Absorption.	<i>J. Electron. Mater.</i>	51, 4152–4160 (2022). <a href="https://doi.org/10.1007/s11664-022-09731-3">https://doi.org/10.1007/s11664-022-09731-3</a>	SCI	4
2	Self-organizing distributed mobility management for next generation mobility protocol	<i>J Ambient Intell Human Comput</i> ( SCI Journal)	<a href="https://doi.org/10.1007/s12652-020-02770-w">https://doi.org/10.1007/s12652-020-02770-w</a>	SCI	1
3	Analyzing handover performance of mobility management protocol using neural network	<i>J Ambient Intell Human Comput</i> ( SCI Journal)	<a href="https://doi.org/10.1007/s12652-020-02822-1">https://doi.org/10.1007/s12652-020-02822-1</a>	SCI	1
4	Investigations on structural and magnetic properties of M-type hexagonal ferrite Ba <sub>0.5</sub> Sr <sub>0.5</sub> CoxLaxFe <sub>12–2x</sub> O <sub>19</sub> in X-band	<u>Journal of Materials Science: Materials in Electronics</u> (SCI Journal)	Issue 3/2021	SCI	3
5	Synthesis of suitable material for microwave absorbing properties in X band	SN Applied Sciences (Springer) SCI Journal	November 2020 2:2035	SCI	4
6	An energy-efficient Hybrid Scheduling Algorithm for task scheduling in the cloud computing environments	IEEE Access ( SCI Journal)	P.No: 117325 – 117337 DOI: <a href="https://doi.org/10.1109/ACCESS.2021.3105727">10.1109/ACCESS.2021.3105727</a>	SCI	3
7	Hybrid Local-Global Optimum Search using Particle Swarm Gravitation Search Algorithm (HLGOS-PSGSA) for Waveguide Selection	IEEE Access ( SCI Journal)	DOI: <a href="https://doi.org/10.1109/ACCESS.2021.3112069">10.1109/ACCESS.2021.3112069</a> Page(s): 12 7866 - 127882	SCI	3
8	Optical transmission through MDM plasmonic tri-layer consisting of T and L shape periodic structures	<i>Journal of Taibah University for Science</i> (TUSC) ( SCIE Journal)	<a href="https://doi.org/10.1080/16583655.2021.199">https://doi.org/10.1080/16583655.2021.199</a>	SCI	3

			<a href="#">0824</a> .		
9	Microwave absorption properties of Co-La doped M-type Ba-Sr hexagonal ferrites in X-band	Journal of Optoelectronics and Advanced Materials (SCI Journal)	vol. 23, iss.	SCI	3
10	Performance enhancement of microstrip patch antenna using CSRR loaded patch structure with partial ground	Journal of Xi'an university of Architecture & technology	ISSN: 1006-7930 Vol 13, issue 12, 2021	SCI	3
11	Narrow beamwidth conical dielectric resonator antenna	JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS	Vol. 24, No. 3-4, March – April 2022, p. 175-186	SCI	3
12	Node Localization and Data Aggregation Scheme Using Cuckoo Search and Neural Network	Expert Systems	In press(DOI: 10.1111/exsy.13033)	SCI	3
13	A hybrid machine learning technique for feature optimization in object-based classification of debris-covered glaciers	Ain Shams Engineering Journal	Volume 13, Issue 6, November 2022, 101809	SCI	3
14	A Compact CPW-Fed Planar Stacked Circle Patch Antenna for Wideband Applications	Wireless Personal Communications	116, 3247–3260 (2021).	Yes, SCI (Springer)	03
15	A Three-Step Authentication Model for Mobile Phone User Using Keystroke Dynamics	IEEE Access	VOLUME 8, 2020 125909-125922	SCI	03
16	Experimental analysis of intermodulation distortion and error vector module for multitone RoF-OFDM system	OPTOELECTRONICS AND ADVANCED MATERIALS – RAPID COMMUNICATIONS	Vol. 14, No. 1-2 , p. 37- 42	January-February 2020	3
17	Design of Wideband Flower-Shaped Microstrip Patch Antenna for Portable Applications	Wireless personal communication	109(7)	May 2019	3
18	Analyzing user typing behavior in different positions using keystroke dynamics for mobile phones	Journal of Discrete Mathematical Sciences and Cryptography ( Taylor and francis)	Vol 22, Issue No. 4 pp : 591-603	01 Sep 2019	3

19	Keystroke Dynamics For Mobile User Authentication	Hidden Link Prediction in Stochastic Social Networks	2328-1405 pp : 64-78		3
20	Design of Metamaterial-Loaded Rectangular Patch Antenna for Satellite Communication Applications	Iranian Journal of Science and Technology, Transactions of Electrical Engineering	Print ISSN2228-6179 Online ISSN2364-1827  43, pages39–49(2019)	Yes: SCI 0.519	02
21	A Novel Chaos-Based Encryption Approach for Future-Generation Passive Optical Networks Using SHA-2	Journal of Optical Communications and Networking	1943-0620 (print) 1943-0639 (online) Vol. 9, Issue 12, pp. 1184-1190(2017)	Yes: SCI 2.74	02
22	A Novel Approach for Physical Layer Security in Future-Generation Passive Optical Networks	Photonic Network Communications	1387-974X (print version) 1572-8188 (electronic version) 35(11):1-10., DOI: 10.1007/s11107-017-0738-4.	Yes: SCI 1.203	02
23.	Design optimization of CPW-fed microstrip patch antenna using constrained ABFO algorithm	Soft Computing, Springer,	Print ISSN1432-7643 Online ISSN1433-7479 22, pages8301–8315(2018)	Yes: SCI 2.36	02
24	Peak-to-average power ratio reduction using coded signal in optical-orthogonal frequency division multiplexing systems	<i>IET Optoelectronics.</i>	<i>ISSN 1751-8768</i> Available on IEEE explore Vol. 6, Iss. 5, pp. 250–254/2012	Yes, SCI 1.12	02

25	Design and simulation of optical-OFDM systems	<i>Journal of Russian Laser Research</i>	(SPRINGE R'S) ISSN 1573-8760 (Online) Volume 33, Number 5, pp. 202-208, September, 2012	Yes, SCI 0.7	02
26.	Simulative Analysis of Integrated DWDM and MIMO-OFDM System with OADM	<i>Optik - Int. J. Light Electron Opt.</i>	(Elsevier's) ISSN: 0030-4026 Volume 12, Issue 4, Elsevier Science (2013) 117– 121	Yes, SCI 0.7	02
27	An adaptive compensation scheme-based coded direct detection optical-orthogonal frequency division multiplex(OFDM) system	<i>Computers and Electrical Engineering</i>	(Elsevier's) ISSN: 0045-7906, Volume 38, 1573–1578, 2012	Yes, SCI 0.7	02
28.	Modeling and simulative performance analysis of OADM for hybrid multiplexed Optical-OFDM system	<i>Optik - Int. J. Light Electron Opt.</i>	(Elsevier's) ISSN: 0030-4026 Pages 1907–1911, July 2013	Yes, SCI 0.7	02
29.	Monitoring and Compensation of optical telecommunication channels by using Optical add drop multiplexers for Optical OFDM system	<i>Journal of Optical Communications, Germany</i>	De Gruyter Mouton Online ISSN: 2191-6322 Vol.33, Issue 2, pp 234-238, 2012	Yes,	02
30	Effect of line coding on jitter and initial laser phase on Q-value in soliton transmission	optik - International Journal for Light and Electron Optics	ELSEVIER's ISSN: 0030-4026	Yes, SCI 0.7	02

			Volume 125, Issue 2 , pp.805–809, 2014		
31	Combating/eliminating dispersion induced fading using Suppressed Carrier link for OFDM signal	TETN <i>International Journal of Electronics</i>	Publisher: Taylor and Francis Ltd ISSN 0020 - 7217 (Print ); ISSN: 1362 - 3060 (Online) Pages 583-592 , Volume 104, 2017 - <u>Issue 4</u>	Yes, SCI 0.7	02
32	<i>Simulative Analysis of IMD in Multitone analog CATV Transmission System.</i>	Optik- Int. J. Light Electron Opt.	Elsevier's ISSN: 0030 -4026 VOL.:124 issue: 122 Pg no.5747-5750 2013	Yes, SCI 0.7	02
33	<i>Comparison between Duobinary and IMDD Technique for CATV Transmission System</i>	Optik- Int. J. Light Electron Opt.	In press ISSN: 0030 -4026 Vol.125, issue 16, pp 4238-4240 August 2014	Yes, SCI 0.7	02
34	Analysis of multitone microwave signals on optical fiber system using external laser modulation	Optik- Int. J. Light Electron Opt.	Elsevier's ISSN: 0030 - 4026 <u>Volume 124,</u> <u>Issue 21,</u>	Yes, SCI 0.7	02

			November 2013, Pages 5139–5141		
35	Performance analysis of different modulation formats in 4-channel CATV transmission system using OADM	Optik- Int. J. Light Electron Opt.	Elsevier's ISSN: 0030-4026 vol 124, issue 24, 6810-6814,	Yes, SCI 0.7	02
36	Optical System design and simulation for a VCSEL	Lasers in Engineering	ISSN: 0898-1507 (print) ISSN: 1029-029X (online) Vol26. pp.19-30, 2013	Yes, 0.2	02
37	Coded OFDM in Fiber-Optics Communication Systems with Optimum biasing of Laser Volume 5, Issue 2. Malaysia Vol 5 issue 2 pp 33-43, June 2011	Signal Processing: An International Journal,	ISSN - 1985-2339	Yes, 3.0	02
38	Analysis of Relative Intensity to Noise Ratio for Lasers at Different Bias Currents Vol 58 issue 3 sept 2012, pp 255-259	INTL JOURNAL OF ELECTRONICS AND TELECOMMUNICATIONS	<i>De Gruyter Mouton</i> Online ISSN: 2191-6322	Yes, 0.4	02
39	Simulative approach to turbo code rate encoder Vol25, issue 4, pp-36-43	<i>Optik - Int. J. Light Electron Opt.</i>	(Elsevier's) ISSN: 0030-4026	Yes, 0.7	02
40	Comparison of QAM and DP-QPSK in a coherent optical communication system  Volume 125, Issue 20, October 2014, Pages 5940–	<i>Optik - Int. J. Light Electron Opt.</i>	(Elsevier's) ISSN: 0030-4026	Yes, 0.4	02

	5942				
41	Modeling and Simulative Performance Analysis of OADM for Hybrid Multiplexed Optical-OFDM System Vol 33, issue 2 297-303	<i>Journal of Optical Communications, Germany</i>	<i>De Gruyter Mouton, Germany Online</i> ISSN: 2191-6322	Yes, 0.4	02
42	Impact of Initial Laser Phase Values on Soliton Transmission”, Volume 34, Issue 4, pp. 401-404, 2013	J. Opt. Commun. (JOC),	. <i>De Gruyter Mouton, Germany Online</i> ISSN: 2191-6322	Yes, 0.4	02
43	Effect of modulation formats in hybrid amplified radio over fiber systems Vol. 34, No. 4, pp.365–369 October 2013,.	Journal of Optical Communications,	<i>De Gruyter Mouton, Germany Online</i> ISSN: 2191-6322	Yes, 0.4	02
44	Impact of initial Laser phase values on soliton transmission, vol. 34, issue 4, pp 401-404, 2013	Journal of Optical Communications,	<i>De Gruyter Mouton, Germany Online</i> ISSN: 2191-6322	Yes, 0.4	02
45	Best value of Laser Power for coherent optical system , Volume 36, Issue 1, pp 43-49, june 2015	Journal of Optical Communications,	<i>De Gruyter Mouton, Germany Online</i> ISSN: 2191-6322	Yes, 0.4	02
46	Effect of Raman Amplifier and cyclic prefix on O-OFDM system using phase modulation , Vol 36, issue 3, pp 197-203, Nov. 2014, doi 10.4515/joc-2014-0072	Journal of Optical Communications,	<i>De Gruyter Mouton, Germany Online</i> ISSN: 2191-6322	Yes, 0.4	02
47	Effect of gain and noise	Journal of Optical Communications,	<i>De Gruyter Mouton</i>	Yes, 0.4	02



	figure on DPSK modulated long haul optical communication system, Vol 36, Issue 3, pp 257-262, Nov, 2014, doi 10.4515/joc-2014-0073		,Germany Online ISSN: 2191-6322		
48	Anlalysis of different Harmonic and Intermodulation distortions for CATV systems Vol 36, Issue 2, pp 175-180, May 2015, doi 10.4515/joc-2014-0057	Journal of Optical Communications,	<i>De Gruyter Mounon</i> ,Germany Online ISSN: 2191-6322	Yes, 0.4	02
49	Effect of Different scattering techniques on higher order soliton, Vol 36, Issue 3, pp 283-288, Nov, 2014, doi 10.4515/joc-2014-0080	Journal of Optical Communications,	<i>De Gruyter Mounon</i> ,Germany Online ISSN: 2191-6322	Yes, 0.4	02
50	Supress the FWM by increasing channel spacing and chromatic dispersion of fiber in WDM system Vol 36, Issue 3, pp 243-248, Sept 2014, doi 10.4515/joc-2014-0065	Journal of Optical Communications,	<i>De Gruyter Mounon</i> ,Germany Online ISSN: 2191-6322	Yes, 0.4	02
51	Performance analysis of 16 channel WDM system with 4 OADM Vol 36 Issue 2, pp 169-173, May 2015, doi 10.4515/joc-2014-0056	Journal of Optical Communications,	<i>De Gruyter Mounon</i> ,Germany Online ISSN: 2191-6322	Yes, 0.4	02
52	Impact of line width and power of laser on radio over fiber system Vol 36, issue 1, pp 67-70, june 2015, doi 10.4515/joc-2014-0055	Journal of Optical Communications,	<i>De Gruyter Mounon</i> ,Germany Online ISSN: 2191-6322	Yes, 0.4	02
53	Comparative Anlalysis of	International journal of	ISSN online: 223	Yes, 0.2	02

	soliton Transmission to maximum distance with single Amplifier Vol 4, issue 1, 294-298, March 2013.	Electronics and Technology	0-7109 ISSN print: 2230 -9543		
54	Performance analysis of DQPSK Modulated RoF System Vol 35, issue 3, pp 245-249, June 2014.	In press Journal of Optical Communications,	De Gruyter Mouton Germany Online  ISSN: 2191-6322	Yes, 0.4	02
55	Performance Analysis of Different Modulation Formats in Optical Communication DOI 10.4515/joc-2015-0049 Received May 27, 2015; accepted June 5, 2015	Journal of Optical Communications	De Gruyter Mouton Germany Online  ISSN: 2191-6322	Yes, 0.4	02
56	Simulative analysis of different modulation formats for RoF Transmission System DOI 10.4515/joc-2015-0005 Received January 11, 2015; accepted February 13, 2015	Journal of Optical Communications	De Gruyter Mouton Germany Online  ISSN: 2191-6322	Yes, 0.4	02
57	Power Analysis of Soliton Pulse for ROF-OFDM System DOI 10.4515/joc-2015-0007 Received January 11, 2015; accepted August 20, 2015	Journal of Optical Communications	De Gruyter Mouton Germany Online  ISSN: 2191-6322	Yes, 0.4	02
58	Optical Time Division Multiplexing Using Terahertz Optical Asymmetric Demultiplexer . Volume 36, Issue 4, Pages 297–301, ISSN (Online) 2191-6322, ISSN (Print)	Journal of Optical Communications	De Gruyter Mouton Germany Online  ISSN: 2191-6322	Yes, 0.4	02

	0173-4911, DOI: 10.4515/joc-2014-0087, March 2015				
59	Keystroke Dynamics for Mobile Phones: A Survey	Indian Journal of Science and Technology, Vol 9(6), DOI: 10.47485/ijst/2016/v9i6/82084, February 2016	ISSN (Print) : 0974-6846 ISSN (Online) : 0974-5645	Yes, 0.4	02
60	Effect of Optical Amplifiers on the Performance of SCM Radio over Fiber Systems	Journal of Optical Communications. Volume 36, Issue 3, Pages 263–268, ISSN (Online) 2191-6322, ISSN (Print) 0173-4911, DOI: 10.4515/joc-2014-0074, January 2015		Yes, 0.4	02
61	Analysis of Different Harmonic and Intermodulation Distortions for CATV Systems	Journal of Optical Communications. Volume 36, Issue 2, Pages 175–180, ISSN (Online) 2191-6322, ISSN (Print) 0173-4911, DOI: 10.4515/joc-2014-0057, May 2015	De Gruyter Mouton Germany Online ISSN: 2191-6322	Yes, 0.4	02
62	Impact of Line Width and Power of Laser on Radio over Fiber System	Journal of Optical Communications. Volume 36, Issue 1, Pages 67–70, ISSN (Online) 2191-6322, ISSN (Print) 0173-4911, DOI: 10.4515/joc-2014-0055, June 2015	De Gruyter Mouton Germany Online ISSN: 2191-6322	Yes, 0.4	02
63	Comparative Study of the Right Protocol for Best Routing Path Vol 6, No 6 (2014) 232-236	Networking and communication Engineering	Print: ISSN 0974 – 9713 & Online: ISSN 0974 – 9616	Yes, 0.4	02
64	Simulative Analysis of CATV Systems for Long Haul Transmission Volume 34, Issue 4,	DE GRUYTER Journal of Optical Communication	ISSN (Online) 2191-6322, ISSN	Yes, 0.4	02

	pp. 393–399 Oct. 2013		(Print) 0173-4911		
65	CATV Transmission in Optical Communication System  Vol. 34, Issue 3, pp. 209–214 July 2013	DE GRUYTER Journal of Optical Communication	ISSN (Online) 2191-6322, ISSN (Print) 0173-4911	Yes, 0.4	02
66	Performance Analysis of Different Modulation Formats in Optical Communication  Volume 37, Issue 2, pp. 227-231 July 2015	DE GRUYTER Journal of Optical Communication	ISSN (Online) 2191-6322, ISSN (Print) 0173-4911	Yes, 0.4	02
67	Simulative analysis of different modulation formats for RoF Transmission System  Volume 37, Issue 1, pp. 69-73 July 2015	DE GRUYTER Journal of Optical Communication	ISSN (Online) 2191-6322, ISSN (Print) 0173-4911	Yes, 0.4	02
68	RIN Evaluation for Optimum Performance of Optical-OFDM System Vol. 1, Issue 1, September 2010 P.No 25-28.	International Journal of Computer Science and Technology	I S S N : 0 9 7 6 - 8 4 9 1 (O n l i n e ) I J C S T	No	02
69	Comparative Analysis of Soliton Transmission to Maximum Distance with Single Amplifier Vol. 4, Issue 1, pp. 294-298, Jan - March 2013	International Journal of Electronics and Communication Engineering.,	ISSN 0974-2166	No	02
70	Comparative Analysis of Soliton Generation with Different Modulation Formats Vol. 4, Issue 1, pp.	International Journal of Electronics and Communication	ISSN 0974-2166	No	02

	411-414, Jan - March 2013.	Engineering.,			
71	Design Issues of Optical Orthogonal Frequency Division Multiplexing System, Volume 4, Number 1 (2011), pp. 19—28.	International Journal of Electronics and Communication Engineering.	ISSN 0974-2166	No	02
72	Simulative Analysis of operating conditions for Flat amplitude Multi wavelength Brillouin-Raman comb fiber laser” IJCST Vol. 1, Issue 1, September 2010 P.No 89-92.	International Journal of Computer Science and Technology,	I S S N : 0 9 7 6 - 8 4 9 1 (O n l i n e )	No	02
73	Sampling Synchronization for Optimum Performance of Optical Orthogonal Frequency Division Multiplexing System Volume 4, Number 1 (2011), pp. 11—18	International Journal of Electronics and Communication Engineering	ISSN 0974-2166	No	02
74	Performance analysis of different modulation formats in 4-Channel CATV transmission system using OADM vol 4 Issue 1-2 15-20	International Journal of Electronics and Communication Engineering.,	ISSN 0974-2166	No	02
75	Simulative Analysis of different Modulation Formats for Long-haul transmission Volume 2, Issue 5, September-October 2012 Available Online at <a href="http://www.gpublication.com/jcer">www.gpublication.com/jcer</a>	International Journal JCER	ISSN No.: 2250-2637	No	02
76	Comparison Between EDFA	International	ISSN	No	02

	and SOA Amplifiers on The Bases Of Their Performance In Multitone MOF System Vol. 1, Issue 4, pp. 273-276 Nov-Dec 2012	Journal (IJAETR)	2278-7070 (ONLINE) I		
77	Comparative Analysis of Soliton Generation with Different Modulation Formats  Vol 4 issue 1 Pp: 411-414	International Journal IJECT	ISSN, 2230-7109	No	02
78	Performance analysis of Optical Code Division Multiplex system Volume 34, Issue 4, Pages 361–364, ISSN (Online) 2191-6322, ISSN (Print) 0173-4911, DOI: 10.4515/joc-2013-0043, October 2013	J. Opt. Commun..	Journal of Optical Communications  Online ISSN: 2191-6322	No	02
79	Simulative Analysis of Dispersion Managed solitons for Long Haul Optical communication System Volume 2, Issue 10 October 2013 Pp: 25-30	International Journal of Engineering Research and technology	ISSN: 2278-0181	No	02
80	Design and implementation of OFDM models with various digital modulation techniques  Volume 2, Issue 4	International journal of Engineering Associates	ISSN: 2320-0804	No	02
81	Simulative analysis of dispersion managed solitons for Long-haul optical communication system Vol 2, 10 (October-2013)	International Journal of Engineering Research and Technology	ISSN: 2278-0181	No	02
82	DESIGN ISSUES OF SPACE TIME BLOCK CODED (STBC) OFDM SYSTEMS Volume 2, Issue 3, March 2014, Pg: 213-219	IJRIT International Journal of Research in Information Technology,	ISSN 2001-5569	No	02
83	Simulative Analysis of different Modulation Formats for Long-haul transmission Vol. 2, Issue 5, pp. 1-7 Sept-Oct 2012	International Journal JCER	ISSN No.: 0976-8324	No	02

84	Performance Evaluation of Optical-OFDM system with different Modulation Techniques Vol. 2, Issue 1, pp. 384-388 Jan-Feb 2013	International Journal IJAETR	ISSN 2278-7070 (ONLINE)	No	02
85	Design and Implementation of OFDM models with various digital modulation Techniques Vol. 2, Issue 4, pp. 64-68	International Journal IJERA	ISSN 2320-0804 (ONLINE)	No	02
86	Precoding and clipping for Space Time Block Coded (STBC) OFDM Systems Vol. 2, Issue 3, pp. 424-430 March 2014	International Journal IJRIT	ISSN 2001-5569 (ONLINE)	No	02
87	Simulative Analysis of DROADM System Vol. 4, Issue 3, pp. 565-570 May-Jun 2015	International Journal IJAETR	ISSN 2278-7070 (ONLINE)	No	02
88	Role of advanced modulation formats Vol. 2, Issue 1, pp. 84-88 Jan 2014	International Journal IJRIT	ISSN 2001-5569 (ONLINE)	No	02

### Papers Published in Conferences:

S.N.	Title	Details of conference Publications	Date of publication
1	“Bandwidth enhancement of Star-shaped fractal antenna in X-band” (Paper ID 56)	International Conference on Computing, Networks & Renewable Energy ( CNRE 2021)	August 2021
2	“Refinement in the Characteristics of microstrip patch antenna using newly composed ferrite material” (Paper ID 57)	International Conference on Computing, Networks & Renewable Energy ( CNRE 2021)	August 2021
3	<i>A Review on Applications of Artificial Intelligence in Various Field</i>	Smart Machine intelligence and and Real-Time computing	26-27 <sup>th</sup> June, 2020

4	Krill Herd Algorithm for Text Document Clustering Using TF-IDF Features	Smart Machine intelligence and and Real-Time computing	26-27 <sup>th</sup> June, 2020
5	Simulation and analysis of Telescopic photonic beam combiner for stellar interferometry in Labview	Proceedings of International conference on computing, communication and sciences	26-27 <sup>th</sup> July, 2019
6	Performance Comparison of Particle Swarm Optimization and Genetic Algorithm for Feature Subset Selection in Keystroke Dynamics	Proceedings of 2019 International Conference on Computational Intelligence and Knowledge Economy, ICCIKE 2019	Jan 2020
7	Simulation and analysis of Telescopic photonic beam combiner for stellar interferometry in Labview	Proceedings of International conference on computing, communication and sciences	26-27 <sup>th</sup> July, 2019
8	Future Generation of Passive Optical Networks	International Conference on Soft Computing Applications in Wireless Communication	2017
9	Keystroke Dynamics Based User Authentication Using Numeric Keypad	7th International Conference CONFLUENCE-2017, Amity University, Noida	2017
10	Authenticating Mobile Phone Users Based on Their Typing Position Using Keystroke Dynamics	Proceedings of 2nd International Conference on Communication, Computing and Networking. Lecture Notes in Networks and Systems, vol 46. Springer, Singapore	2018
11	Keystroke Dynamics for Mobile User Authentication	4 <sup>th</sup> International Multi-Track Conference on Sciences, Engineering and Technical Innovations	Conference Dates: Oct 5-6, 2018
12	Different Techniques for Bandwidth Enhancement of Fractal	4th International Multi-Track Conference on Sciences, Engineering and Technical	Conference Dates: Oct 5-6, 2018



	antennas-A Review	Innovations	
13	Bandwidth Enhancement of Microstrip Patch Antennas using Metamaterials: A Review	4th International Multi-Track Conference on Sciences, Engineering and Technical Innovations	Conference Dates: Oct 5-6, 2018
14	Optical Stellar Interferometry –A Review	4th International Multi-Track Conference on Sciences, Engineering and Technical Innovations	Conference Dates: Oct 5-6, 2018
15	Data transmission with OFDM technique using soliton carriers	Proc. of the Second Intl. Conf. on Advances In Computing, Electronics and Communication - ACEC 2014. Copyright © Institute of Research Engineers and Doctors, USA .All rights reserved. ISBN: 978-1-63248-029-3 doi: 10.15224/ 978-1-63248-029-3-175  ACEC 2014 international conference, ISBN 978-1-63248-029-3,  Held at Zurich, Switzerland	2014
16	Secure node localization in wireless sensor network: A review	Accepted for Publication ICTMS-15, Dec 29-30, UK, London:  Research Cell : An International Journal of Engineering Sciences, Special Issue ICTMS-15 , 29-30 ISSN: 2229-6913 (Print), ISSN: 2320-0332 (Online)	December 2015
17	Radio over Fiber Technology – A Review	Research Cell : An International Journal of Engineering Sciences, Special Issue ICTMS-15 , 29-30 December 2015 ISSN: 2229-6913 (Print), ISSN: 2320-0332 (Online)	December 2015
18	Performance Analysis of RoF link using Mach-Zehnder Modulator and its parameters	Research Cell : An International Journal of Engineering Sciences, Special Issue ICTMS-15 , 29-30 ISSN: 2229-6913 (Print), ISSN: 2320-0332 (Online)	December 2015

19	PERFORMANCE ANALYSIS OF FWM AT VARYING DISPERSION VALUES AND BIT RATES	Research Cell : An International Journal of Engineering Sciences, Special Issue ICTMS-15 , 29-30 ISSN: 2229-6913 (Print), ISSN: 2320-0332 (Online)	December 2015
20	ANALYSIS OF DIFFERENT TYPE OF MODULATION TECHNIQUES FOR 100km OPTICAL FIBER CATV TRANSMISSION SYSTEM	An International Journal of Engineering Sciences, Special Issue ICTMS-16 , ISSN: 2229-6913 (Print), ISSN: 2320-0332 (Online) © 2016 MID Publications in association with Vidya Publications	2016
21	Investigations on Design issues for Optical OFDM systems	Research Cell : An International Journal of Engineering Sciences, Special Issue ICTMS-16 , ISSN: 2229-6913 (Print), ISSN: 2320-0332 (Online) © 2016 MID Publications in association with Vidya Publications	25-26 JUNE 2016
22	Performance analysis of hybrid OCDMA-ROF system	IIE International conference, ICIET'2013, , Bangkok, Thailand:	2013Dec 25-26
23	Factors affecting higher order Soliton in soliton transmission”,	IIE International conference on Emerging Trends in Engineering and Technology, ICETET'2013,Bangkok,Thailand	, 25-26, Dec- 2013
24	Various routing protocols for networking	IIE International conference on Emerging Trends in Engineering and Technology, ICETET'2013, ,Bangkok,Thailand	25-26, Dec- 2013
25	Factors Affecting Higher Order Solitons in Soliton Transmission  PP09-12	International Conference on Innovations in Engineering and Technology (ICIET'2013) Bangkok (Thailand)	Dec. 25-26, 2013
26	Residue Number system based Distributed Arithmetic approach for	SPIE Optical Engineering + Applications, part of SPIE Optics + Photonics symposium, ,San	17 - 21 August 2014

	optical-OFDM System	Diego, California United States.	
27	Data transmission with OFDM technique using soliton carriers	SPIE Optical Engineering + Applications, part of SPIE Optics + Photonics symposium, San Diego, California United States.	17 - 21 August 2014
28	“Performance analysis of coded OFDM fiber-optics communications”	Optics and Photonics for Information Processing , SPIE Optical Engineering + Applications * * San Diego, California, United States	21-25 August 2011
29	Simulative Analysis of operating conditions for optical communication System	Wireless and optical communications Quebec, Canada	June 3-4, 2014
30	Analysis of denoised speech signal for different threshold selection rules	international conference IMTC-2014 , CTIEMT jalandhar city	June 3-4, 2014
31	Accuracy Enhancement Technique for Pseudo Zernike Moments”	International conference IMTC-2014 , CTIEMT jalandhar city	June 3-4, 2014
32	Performance Comparison of WDM-OFDM system ”	International conference IMTC-2014 , CTIEMT jalandhar city	June 3-4, 2014
33	Investigate the effect of laser source & Line width on FWM power in WDM system	International conference IMTC-2014 , CTIEMT jalandhar city	June 3-4, 2014
34	Different method of channels allocation to mitigating the four wave mixing non-linearity system	International conference IMTC-2014 , CTIEMT jalandhar city	June 3-4, 2014
35	“RIN Evaluation with dispersion compensation for Optimum Performance of Optical Transmission	Proceedings of the International Computer Science and Technology Conference 2008 San Diego, California, USA	April 1-3, 2008;

	System”		
36	Simulative Analysis of operating conditions for Flat amplitude Multiwavelength Brillouin-Raman comb fiber laser”	ICSTC 2008 San Diago California, USA	2008
37	Effects of higher-order dispersion on XPM by using VSTF method”	International conference 3C-06 held at R.V.C.E Banglore	2006
38	Simulative Analysis of operating conditions for raman Amplifier in a hybrid amplification system	IASTED international conference on WOC-2008, , at Qubec Canada	26-28 May 2008

Books Authored/Book Volume Chapters:

**Books:**

1. K. S. Bhatia, An Analysis of CATV Transmission using different modulation formats, LAP LABERT academic international publishing, 2010
2. K. S. Bhatia, H. Kaur, Vibrations measurements using DSP system, LAP LABERT academic international publishing, 2010
3. K. S. Bhatia, Optical Communication System, LAP LABERT Academic international publishing, 2010
4. K. S. Bhatia, Optical OFDM System, LAP LABERT Academic international publishing, 2010

**Book Chapters:**

- B. Singh, N. Kaur, K.S. Bhatia, Keystroke Dynamics For Mobile User Authentication 2328-1405 pp : 64-78, In: Hidden Link Prediction in Stochastic Social Networks, ISBN13: 9781522590965, 2020.
- K.S. Bhatia et al. “Ferrite Nanostructured Magnetic Materials Technologies and Applications” , ISBN: 9780128237175, Number Of Pages: 938: Publisher Elsevier

Research Guidance	Awarded	PG	Doctorate
		34	09
	Undergoing	01	01
Research Projects	Completed	01	
	Undergoing	Nil	
Awards & Distinctions			
Administrative Assignments Handled	Public Information officer Coordinator of professional Societies IEEE Branch Counselor Controller of Examination Head Dean Warden		
Association with Professional Bodies	IEEE Optical Society of America ISTE		
Any other Achievements			