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## **Publications:**

<ul> <li>Optimal Query Processing in Distributed Database Systems" in NETWORKS 2005 Proceeding of the National Conference on Networks and Distributed Systems, 25-26 February, 2005, Hyderabad, pp 308-318.</li> <li>Published paper "A PrT-Net Model to Analyze Distributed Database Systems" in Proceeding of the National Conference on Communication &amp; Computational Techniques Current &amp; Futt Trends, NCCT-06, Organized by Dehradun Institute of Technology, Dehradun. Feb 10-11,20 pp 111-117</li> <li>Published paper "Performance Evaluation of Distributed Databases Using Stochastic Petri Nets", IICT-2007, in Proceedings of International Conference on Information &amp; Communicat Technology, Organized by Dehradun Institute of Technology, Dehradun. July 26-28,2007, 138-145.</li> <li>Published paper "Performance Analysis of Data Traffic in Networks using Priority Disciplir in International Journal/SRD Technical &amp; Non- Technical Journal, ISSN: 0976-7967, pp 15-20. III, Issue 1, Jan 2011.</li> <li>Published paper "Performance Evaluation of High Speed Network (ATM QUEUE) with Discretionary Priority Jumps", in A Management Journal of SGRRITS: Vedaang, ISSN: 0975-7961, pp 74-80, Vol 2, No. 1, Jan-Jul 2011.</li> <li>Published paper "A Petri Net Model for Deciding Availability of Most Reliable Cost Effecti Fragment Access Path in Distributed Database Systems" in International Journal of Information and Telecommunication Technology IJITT, SRISTE creation publication,ISSN: 09: 5972, Vol 2, No. 1 2010, pp 77-85.</li> <li>Published paper "Analysis of Technique to Extract Data from the Web for Improved Performance" in Proceedings of International Conference on Methods and Models in Scien and Technology ICM2ST-10, 25-26 Dec,2010, American Institute of Physics 1324,188N 978-07354-0879-1, ISSN 00934-243X, printed in the United States of America. pp 311-315.</li> <li>Published "A New Model for Web Pre-fetching Using Popularity-Based Prediction" Proceedings of Annual International Conference on Advances in Distribut</li></ul>		
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	26.	Published research paper title "Empirical Evaluation of Threshold, Time, Volume, and
		Distance C
		onstraintAlgorithm for Redundant and Non-Redundant (TTVDCA-RNR) Dynamic
		DataAllocation in Distributed Database Systems", in International Journal on Computer
		Science and Engineering (IJCSE), Vol. 10 No.1 <b>Jan 2018</b> , e-ISSN: 0975-3397p-ISSN: 2229-5631pp 32-37 (ICI).
F	27.	Published research paper title " Preprocessing and Classifying Web Text Data for E-learning
	۷,	Recommendation " in International Journal of Computer Sciences and Engineering (IJCSE),
L		Vol6, Issue-6, <b>June 2018</b> , E-ISSN: 2347-2693, pp 851-859, UGC listed S.no. 305, J.No. 63193
	28.	Published research paper title "Survey on Image Segmentation Techniques using Traditional
		and Soft Computing Techniques " in International Journal of Computer Sciences and
		Engineering (IJCSE), Vol.06, Special Issue.05, pp.85-90, Jun-2018, <b>June 2018</b> , E-ISSN: 2347-
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F	30.	Published research paper title" Web Usage Mining: Dynamic Methodology to Preprocessing
		Web Logs", in Helix, The scientific Explorer, Vol. 8(5):, DOI 10.29042/2018-3810-3815, Web of
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		International Conference on Next Generation Computing and Information Systems, ISBN
		Information: Electronic ISBN: 978-1-5386-4205-4 Print on Demand(PoD) ISBN: 978-1-5386-4206-1 978-0-7695-6361-9/17 \$31.00 © 2017 IEEE DOI 10.1109/ICNGCIS.2017.858 <b>Nov</b>
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F	32.	Published research paper title" Comparison of Meta-heuristic Algorithms for Web Link
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		<b>Learning based Approach</b> ", in International Journal of Mathematical, Engineering and Management Sciences Vol. 4, No. 4, <b>Scopus Indexed</b> , <b>Web of Science</b> 957–967, <b>Aug-2019</b> pp-957-967.
		https://dx.doi.org/10.33889/IJMEMS.2019.4.4-076
F	35.	Published research paper title "Image Segmentation using Improved Genetic Algorithm",
		International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958,
		Volume-9 Issue-1, October 2019, Published By: Blue Eyes Intelligence Engineering &
		Sciences Publication, Retrieval Number: F9063088619/2019©BEIESP DOI:
ļ	2.5	10.35940/ijeat.F9063.109119, <b>Scopus Indexed</b> , pp 1784-1792
	36.	Published research paper title "Analysis of Cloud Computing Vulnerability against DDos" Feb

Print on Demand(PoD) ISBN:978-1-7281-2444-5 Dehradun, India

2020 International Conference on Innovative Sustainable Computational Technologies (CISCT), IEEE Xplore, **Electronic ISBN:**978-1-7281-2443-8, **Print ISBN:**978-1-7281-2442-1

37. Published research paper title "Cumulative Histogram based Dynamic Particle Swarm Optimization Algorithm for Image Segmentation", Indian Journal of Computer Science and Engineering (IJCSE)e-ISSN: 0976-5166 p-ISSN: 2231-3850, Vol. 11 No. 5 Sep-Oct 2020, DOI: 10.21817/indjcse/2020/v11i5/201105183**Scopus Indexed**. pp 557-567 Published chapter title "Security Threats and Recent Countermeasures in Cloud Computing" in Modern Principles, Practices, and Algorithms for Cloud Security. IGI Global, 2020. 145-161. Available at: https://www.igi-global.com/chapter/security-threats-and-recentcountermeasures-in-cloud-computing/238906 Published research paper title "Defense mechanisms against DDoS attack based on entropy in SDN-cloud using POX controller", in Telecommunication Systems, Vol.:(0123456789) Springer Link, thomosreuterss.n. 6816, Impact Factor 2.336, 3 Jan 2021. https://doi.org/10.1007/s11235-020-00747-wSCI ISSN:1018-4864E-ISSN:1572-9451 Published paper "Segmentation of Covid-19 Affected X-Ray Image using K-means and DPSO Algorithm", in International Journal of Mathematical, Engineering and Management Sciences, Vol. 6, No. 5, 1255-1275, 2021, ISSN: 2455-7749, Scopus Indexed, Web of Science Published research paper title "Supervised Machine Learning Algorithms Based on Classification for Detection of Distributed Denial of Service Attacks in SDN-Enabled Cloud Computing" in book Cyber Security, Privacy and Networking, Springer, Singapore. Pp 165-174, May 2022, Print ISBN 978-981-16-8663-4, Online ISBN 978-981-16-8664-1, DOIhttps://doi.org/10.1007/978-981-16-8664-1 15 Published research paper title "Segmentation of Image Using Hybrid K-means Algorithm 42. "in book Cyber Security, Privacy and Networking, Springer, Singapore. pp 369–377, May 2022, Print ISBN 978-981-16-8663-4, Online ISBN 978-981-16-8664-1, DOIhttps://doi.org/10.1007/978-981-16-8664-1 32 Published research paper title "Defensive mechanism against DDoS attack based on feature selection and multi-classifier algorithms", in Telecommunication Systems, Vol82(2) Springer Link, pp 229-244, Impact Factor 2.336, Feb 2023, SCI Published research paper title "Strength and Limitations of Publicly Available Anti-Malware Tools Against Obfuscated Malware", in 5th International Conference on Inventive Research in Computing Applications (ICIRCA 2023) IEEE Xplore, ISBN: 979-8-3503-2141-8, Published research paper title "Prediction of variants of DDoS attacks based on statistical 45 analysis and machine learning algorithms", in Int. J. Innovative Computing and Applications, Vol. 15, No. 1, Dec **2024**, pp 14-25 Published research paper title "Comparative Analysis of Data Sets for Developing and 46 Evaluating Defensive Mechanisms Against Distributed Denial of Service Attack" in proceeding of International Conference on Smart Systems and Advanced Computing (SysCom 2022), pp 63-69, March 2025, Part of the book series: Advances in Intelligent Systems and Computing ((AISC, volume 1451)), Springer, Cham

## Workshop/Seminar/Conference attended/presented paper:

1.	Orientation Program from UGC Academic Staff College, Kumaun University, Nainital, 28th
	May to 24th June 2010.
2,	Refresher Course from UGC Academic Staff College, Kumaun University, Nainital, 09th Sept
	to 29th Sept 2010.
3.	Presented paper "Cloud Computing Impact on Environment", at National Seminar on

	Research Methods in Forestry and Climate Change, organized by Department of Forestry and Environment Science, Kumaun University, Nainital, <b>17-18 Sept 2010</b> .
4.	presented paper "A New Model for Web Pre-fetching Using Popularity-Based Prediction"
٦.	Proceedings of Annual International Conference on Advances in Distributed and Paralle
	Computing ADPC-2010 organized by Global Science and Technology Forum (GSTF) at
	Singapore, 1-2 Nov, 2010.
5.	presented paper "Analysis of Technique to Extract Data from the Web for Improved
	<b>Performance"</b> in International Conference on Methods and Models in Science and Technology
	ICM2ST-10, 25- <b>26 Dec,2010</b> , American Institute of Physics.
6.	Presented research paper titled " Maintaining Strong Cache Consistency Mechanism for Web
	" in International Conference on Recent Advances in IT & IT Management (RAITM'12) on 28-
	29 February, 2012at SGRRITS, Dehradun.
7.	Presented research paper titled "Analysis of Maintaining Strong Cache Consistency
	Mechanism for Web" in the National Seminar on "Innovations and Applications in Engineering
	& Applied Sciences" (IAEAS-2011) held on 9th-10th Nov 2011, at Faculty of Engineering and
	Technology, Gurukul Kangri Vishwavidyalaya, Haridwar.
8.	Attended AICTE sponsored one week Staff Development Program SDP on "Teaching Methods
	and Pedagogy for Successful Technical Educators" on 2 <sup>nd</sup> – 8 <sup>th</sup> July 2012at Swami Darshanand
	Institute of Management and Technology (SDIMT), Haridwar.
9.	Presented research paper titled "Non-Redundant Dynamic Data Allocation in Distributed
	<b>Database Systems</b> ", in 2nd International Conference on "Issues and Challenges in
	Networking, Intelligence and Computing Technologies" – ICNICT 2012, Nov 2012 held on 7th –
	8th <b>Sep 2012</b> Organized by Krishna Institute of Engineering & Technology, Ghaziabad.
10.	Attended and Chaired a session in National Conference on "Network Security Issues &
	Resource Optimization" held on Oct 27th – 28th 2012organized by Department of Computer
	Application at Graphic Era University, Dehradun.
11.	Presented research paper titled "A Small Road Map of Component Based Software
	<b>Development</b> " in National Conference on Contemporary & Futuristic IT – Initiatives &
	Interventions held on 30th – 31th March, 2013at Doon University, Dehradun.
12.	Presented research paper titled "Certification Process models for C.B.S.E. (Component Based
	Software Engineering)" in National Conference on Leveraging Technologies for Re-scripting
	Higher Education held on 16th <b>Nov 2013</b> , Organized by School of Computer Science &
40	Information Technology, Uttarakhand Open University at Doon University, DDun, Uttarakhand.
13.	As a speaker, attended a National Conference on "Future Trends in Communication &
	Computation Techniques (NCCT 2013)" Organized by Department of Computer Science &
	Engineering, SelaQui Academy of Higher Education In association with Uttarakhand Technical
1.1	University, Dehradun Held on 22nd <b>November 2013</b> .
14.	Attended National Workshop on "Statistical Techniques in Research" Organized by School of
	Computer Science & Information Technology, Uttarakhand Open University jointly with IT Cell,
1 [	Doon University at Doon University, Dehradun, Uttarakhand, held on 22nd <b>December, 2013.</b> Presented a paper titled "Pole of Information Technology in Carbohydrates" in International
15.	Presented a paper titled "Role of Information Technology in Carbohydrates" in International
	Conference on Challenges In Chemistry and Biology Of Carbohydrates held on 20th-22th Jan <b>2014</b> , organized by Association of Carbohydrates Chemists & Technologists (INDIA) at Hotel
16	Sun Park Inn, ITBP Road, Near Petrol Pump, Dehradun.
16.	Attended National Workshop on "Health Awareness" Organized by Department of
	Management Studies, Kanya Gurukul Campus, Dehradun in collaboration with Red Ribbon
17	Club, USACS and Sara Group of Industries, Dehradun on 12-13 March 2014.  Presented research paper titled "Poving of Web Cache Penlacement Policies" in International
17.	Presented research paper titled "Review of Web Cache Replacement Policies" in International
	Conference on Soft Computing Techniques for Engineering & Technology – 2014, Aug 7-8, 2014, (ICSCTET – 2014) Organized by School of Computing & Department of Allied Sciences at
	Graphic Era Hill University Bhimtal Campus, Nainital, Uttarakhand, India.

Attended Special Summer School on Research Methodology (Inter Disciplinary) equivalent to 18. Refresher Course, held from 12.05.2014 to 31.05.2014(3-weeks), at UGC-Academic Staff College, Himachal Pradesh University, Summer Hill, Shimla (H.P.) 19. Attended one week workshop on "Gender Sensetization" at ASC Nainital, Kumaun University, Nainital from 7th June to 13th June 2017. Presented Research paper title "An Extended Efficient Approach to Dynamic Fragment 20. Allocation in Distributed Database Systems" in International Conference on Sustainable Computing Techniques in Engineering, Science and Management (SCESM2016), 09-10 Sep 2016 organized by SN Education Society, India and URGCEE, USA and hosted by Hierank Business School, Noida. Attended UGC-Sponsored Short Term Course in MOOCs and OER from 08 June to 14 June 21. 2018 (one week) at UGC, HRDC, Kumaun University, Nainital (Uttarakhand). 22. Presented research paper title "Risk Analysis in Software Systems", in National Conference on Emerging Trends in Computing, organized by Department of Computer Science & Engineering at Graphic Era Deemed to be University, Dehradun on May 12, 2018. Attended Two Days Workshop on Wordpress and SEO on Feb 2019as a Member of Organizing 23. Committee at Department of Computer Science, Gurukul Kangri Vishwavidyalaya, Haridwar. 24.. Presented paper title "Impact of Cloud Computing and its Security in Education System" at UCOST sponsored One day National Seminar on 'National Education Policy: Various Aspects & Perspectives' (MHRD, Govt. of India initiative) on 28th Sept 2019at MKP(PG) College, 25. Attended International Conference on Innovative Sustainable Computational **Technologies (CISCT-2019)** on 11-12<sup>th</sup>October at Graphic Era Deemed to be University, India. 26. Attended Innovation Ambassador training (Foundation Level, Total 16 Sessions of 30 contact hours) conducted by MoE's Innovation Cell & AICTE during the period from 30th June - 30th July 2021 in online mode. 27. Attended "Professional Advancement Program for Indian Women Researchers in STEM" organised at School of Physical Sciences, Doon University, Dehradun, sponsored by Science and Engineering Research Board (SERB), Department of Science and Technology (DST), Government of India during June 02-03, 2022. Attended FDP Professional Development Programme "Talentnext" by Wipro 03-Oct-2023 28 to 20 Oct-2023- by Wipro Limited. 29 Co-chair of the Technical Session in the 6th World Congress On Disaster Management(WCDM), held in Graphics Era (Deemed to be University), hosted by Government of Uttarakhand, USDMA, UCOST and DMICS, from 28th Nov 2023 to 1st Dec 2023. Session chair in 4th International Conference on Innovative Sustainable Computational 30 Technologies (CISCT2024), (Technically Co-sponsored by IEEE UP Section, Conference Record No. 62494) held on 27th and 28th December 2024, organized by the Department of Computer Science & Engineering, Graphic Era (Deemed to be University), Dehradun sponsored by CSIR- India, SERB- India and UCOST-Uttarakhand.

## Award:

 Best paper award title "Supervised Machine Learning Algorithms based on classification for Detection of Distributed Denial of Service Attacks in SDN enabled Cloud Computing" by in the International Conference on Cyber Security, Privacy and Networking (ICSPN 2021) organized during September 17–19, 2021 (in Online Mode).