Name : Dr. Neena Gupta

Designation : Assistant Professor (Stage-3)

Department : Computer Science, Kanya Gurukul, Dehradun

Qualification : Ph.D.(Computer Science), MCA, MA(Mathematics), B.Sc., LL.B., PGDCA

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Publications:

1.	Published paper **"A Petri Net Approach for Deciding Least Cost Fragment Access Paths for Optimal Query Processing in Distributed Database Systems**" in NETWORKS **2005** Proceedings of the National Conference on Networks and Distributed Systems, 25-26 February, 2005, Hyderabad, pp 308-318.
2.	Published paper **"A PrT-Net Model to Analyze Distributed Database Systems"** in Proceedings of the National Conference on Communication & Computational TechniquesCurrent & Future Trends, NCCT-06, Organized by Dehradun Institute of Technology, Dehradun. **Feb 10-11,2006**, pp 111-117
3.	Published paper **"Performance Evaluation of Distributed Databases Using Stochastic Petri Nets"**, IICT-2007, in Proceedings of International Conference on Information & Communication Technology, , Organized by Dehradun Institute of Technology, Dehradun. **July 26-28,2007**, pp 138-145.
4.	Published paper **"Performance Analysis of Data Traffic in Networks using Priority Discipline"** in *International Journal*VSRD Technical & Non- Technical Journal, ISSN : 0976-7967, pp 15-24, Vol.II, Issue 1**, Jan 2011**.
5.	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.**
6.	Published paper **"A Petri Net Model for Deciding Availability of Most Reliable Cost Effective Fragment Access Path in Distributed Database Systems"** in *International Journal*of *Information and Telecommunication Technology IJITT, SRISTE creation publication,ISSN :0976-5972, Vol 2, No. 1 **2010**, pp 77-85.*
7.	Published paper "**Analysis of Technique to Extract Data from the Web for Improved Performance"** in *Proceedings of International Conference on Methods and Models in Science and Technology ICM2ST-10, 25-26 **Dec,2010**, American Institute of Physics 1324,ISBN 978-0-7354-0879-1, ISSN 00934-243X, printed in the United States of America. pp 311-315.*
8.	Published "**A New Model for Web Pre-fetching Using Popularity-Based Prediction"** *Proceedings of Annual International Conference on Advances in Distributed and Paralle Computing ADPC-2010, published and organized by Global Science and Technology Forum (GSTF) at Singapore, 1-**2 Nov, 2010**, ISBN-978-981-08-7656-2 pp R39-R44*

9.	Published research paper titled "**Maintaining Strong Cache Consistency Mechanism for Web**" **in Journal of Information and Operations Management**" pp 206-209,**Feb 2012**, ISSN:0976-7754, E-ISSN:0976-7762, Impact value : ICV:4.72, Vol 3, Issue 1.
10.	Published research paper titled "**Elicit – A New Component Based Software Development Model**", in International Journal of Computer Applications (IJCA), pp 53-57, **Feb 2013**, ISSN:0975-8887, ISBN:973-93-80873-21-6, Vol 63, Number 21, published by Foundation of Computer Science, New York, USA.
11.	Published research paper titled "**Make Web Page Instant : By Integrating Wb-Cache and Web-Prefetching**" in Conference on Advances in Communication and Control Systems 2013 (CAC2S 2013) pp 5-8. World Conference on Advances in Communication and Control Systems (CACCS-2013) 6-8th**April,2013**,Organized by DIT University,Dehradun at DIT University, Dehradun, UK, April 6-7,2013, ISBN : 978-90-78677-61-1, ISSN: 1951-6851, url : http://www.atlantis-press.com/publications/aisr/cac2s-13/
12.	Published research paper titled "**Dynamic Data Allocation in Distributed Database Systems: A Systematic Survey**", International Review on Computers and Software (IRECOS), ISSN:1828-6003,Cd-Rom ISSN:1828-6011 Vol 8, No. 2, **February 2013**.
13.	Published research paper titled "**Non-Redundant Dynamic Data Allocation in Distributed Database Systems**", in Special Issue of International Journal of Computer Applications (IJCA), pp 6-10, Nov 2012, ISSN:0975-8887 on Issues and Challenges in Networking, Intelligence and Computing Technologies – ICNICT 2012, **Nov 2012**.
14.	Published research paper titled"**Web Caching and Web Prefetching: A Survey**" ,in National Conference on "Network Security Issues & Resource Optimization" held on **Oct 27th – 28th 2012** organized by Department of Computer Application at Graphic Era University, Dehradun.
15.	Published research paper titled "**A New Path Based Reliability Approach for Estimation of Reliability of Component Based Software Development**", in International Journal of Computer Science & Engineering (IJCSE), pp 295-299, **Nov 2013**, ISSN:2319-7323, Vol 2, Number 06, Indexed in Google Scholar, BASE, SCIRUS, DOAJ, Cornell's University Library.
16.	Published research paper titled "**Elite Plus – Component based Software Process Model**", in International Journal of Computer Applications (IJCA), pp 1-7, ISSN : 0975 – 8887, ISBN : 973-93-80880-75-9, doi>10.5120/15567-4084,vol 90 – No. 5, **March 2014**, published by Foundation of Computer Science, New York, USA, Impact Factor .821
17.	Published research paper titled "**An Extended Approach to Non-Replicated Dynamic Fragment Allocation in Distributed Database Systems**", in Proceedings of the 2014 International Conference on Issues and Challenges in Intelligent Computing Techniques ICICT, 7-8 **Feb 2014**, at Ghaziabad, pp 861-865, Organized by Krishna Institute of Engineering and Technology, Ghaziabad India, IEEE Catalog Number CFP1463W-DVD, ISBN 978-1-4799-2899-6.
18.	Published research paper titled "**A Novel Approach to Component-Based Software Testing**", in ACM SGSOFT Software Engineering Notes ,**Nov 2014**, Vol 39, Number 6, DOI :10,1145/2674632.2674640 pp 1-4.
19.	Published research paper titled "**Measurement of the Reliability of a Component-Based Development using a Path-Based Approach**", in ACM SGSOFT Software Engineering Notes ,**Nov 2014**, Vol 39, Number 6, DOI :10,1145/2674632.2674641 pp 1-5.

20.	Published research paper titled " **A Contemporary Certification Process for Component-Based Development**", Int.J.Computer Technology & Applications (IJCTA),Vol 6 (1),127-132, IJCTA | **Jan-Feb 2015**Available online@www.ijcta.com, ISSN:2229-6093, pp 127-132.
21.	Published research paper titled **"Review of Efficient Web Cache Replacement Policies Implemented on Different Types of Proxy-Server**", in International Journal of Electronics, Electrical and Computational System (IJEECS), ISSN 2348-117X, Vol 4, Special Issue, **Feb 2015**, pp 27-37.
22.	Published research paper titled "**An Extended Efficient Approach to Dynamic Fragment Allocation in Distributed Database Systems**" IJCTA, 9(20), © International Science Press **2016**, . **ISSN :** 0974-5572 pp. 473-482. **UGC SERIAL NO.: 2003**
23.	Published research paper titled "**A Survey on Web Personalization Approaches through Web Mining**" in International Journal of Control Theory and Applications, ISSN : 0974-5572 @ International Science Press, Vol.10, No.14**, 2017**pp 135-143.
24.	Published research paper title "**Clustered Approach to Dynamic Data Allocation in Distributed Database Systems**" in International Journal of Advanced Research in Computer Science (IJARCS), Vol 8, No.5 EISSN: 0976-5697 May-Jun-2017 pp 2046-2052 (ICI)
25.	Published research paper title " **Web Documents Prioritization Using Iterative Improvement** ", in Conference Proceedings, International conference on Next Generation Computing Technologies, pp 459-473, , 2017, Third International Conference, NGCT 2017, Dehradun, India, **October 30-31, 2017** andpublished as a book chapter by **Springer Nature Singapore Pte Ltd. 2018 (**part of Communications in Computer and Information Science book series (CCIS, volume 827).
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 **Jan 2018**, e-ISSN : 0975-3397p-ISSN : 2229-5631pp 32-37 (ICI).
27.	Published research paper title " **Preprocessing and Classifying Web Text Data for E-learning Recommendation** " in International Journal of Computer Sciences and Engineering (IJCSE), Vol.-6, Issue-6, **June 2018**, 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, **June 2018**, E-ISSN: 2347-2693, pp 851-859, UGC listed S.no. 305, J.No. 63193
29.	Published research paper title " **Risk Analysis in Software Systems** " in International Journal of Computer Sciences and Engineering (IJCSE), Vol.06 , Special Issue.05 , pp.111-114, Jun-2018, **June 2018**, E-ISSN: 2347-2693, pp 851-859, UGC listed S.no. 305, J.No. 63193
30.	Published research paper title" **Web Usage Mining: Dynamic Methodology to Preprocessing Web Logs**", in Helix, The scientific Explorer, Vol. 8(5): 3810- 3815, DOI 10.29042/2018-3810-

	3815, pp-3810-3815, **Aug-2018**
31.	Published research paper title *"Recommendation for Learners in E-Learning System"* in 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 **Nov 2018**
32.	Published research paper title" **Comparison of Meta-heuristic Algorithms for Web Link Prioritization**", in International Journal of Computer Sciences and Engineering (IJCSE) open access, Vol.-7, Issue-6, **June 2019**E-ISSN: 2347-2693,pp 319-324
33.	Published paper title "**Analysis of Cloud Computing Vulnerability against DDoS**" **Oct-2019**International Conference on Innovative Sustainable Computational Technologies (CISCT). IEEE, 2019. Available at: https://ieeexplore.ieee.org/document/9008147
34.	Published research paper title, " **E-Learning Recommender System for Learners: A Machine Learning based Approach**", in International Journal of Mathematical, Engineering and Management Sciences Vol. 4, No. 4, 957–967, **Aug-2019**pp-957-967.https://dx.doi.org/10.33889/IJMEMS.2019.4.4-076, **IF-1.87**
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: 10.35940/ijeat.F9063.109119, pp 1784-1792
36.	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**IF-0.29**
37.	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-recent-countermeasures-in-cloud-computing/238906
38.	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 1.734**, 3 **Jan 2021**, https://doi.org/10.1007/s11235-020-00747-w**SCI**
39.	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 IF-1.87**
40.	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 ISBN978-981-16-8663-4, Online ISBN978-981-16-8664-1, DOIhttps://doi.org/10.1007/978-981-16-8664-1_15

41.	Published research paper title "**Segmentation of Image Using Hybrid K-means Algorithm**" in book Cyber Security, Privacy and Networking, Springer, Singapore. pp 369–377, May 2022, Print ISBN978-981-16-8663-4, Online ISBN978-981-16-8664-1, DOIhttps://doi.org/10.1007/978-981-16-8664-1_32

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, 17-18 Sept 2010*.
4.	presented paper "**A New Model for Web Pre-fetching Using Popularity-Based Prediction**" *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 Performance**" in *International Conference on Methods and Models in Science and Technology ICM2ST-10, 25-26 Dec,2010, 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, 2012**at 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 2nd – 8th**July 2012**at Swami Darshanand Institute of Management and Technology (SDIMT), Haridwar.
9.	Presented research paper titled "**Non-Redundant Dynamic Data Allocation in Distributed Database Systems**", in 2nd International Conference on " Issues and Challenges in Networking, Intelligence and Computing Technologies" – ICNICT 2012, Nov 2012 held on 7th – 8th **Sep 2012**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 2012**organized by Department of Computer Application at Graphic Era University, Dehradun.
11.	Presented research paper titled "**A Small Road Map of Component Based Software Development**" in National Conference on Contemporary & Futuristic IT – Initiatives & Interventions held on 30th – 31th **March, 2013**at 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 **Nov 2013**, Organized by School of Computer Science & 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 University, Dehradun Held on 22nd **November 2013**.
14.	Attended National Workshop on "**Statistical Techniques in Research**" Organized by School of

	Computer Science & Information Technology, Uttarakhand Open University jointly with IT Cell, Doon University at Doon University, Dehradun, Uttarakhand, held on 22nd **December, 2013.**
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 2014**, organized by Association of Carbohydrates Chemists & Technologists (INDIA) at Hotel 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 Club, USACS and Sara Group of Industries, Dehradun on 12-13 **March 2014**.
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.
18.	Attended **Special Summer School on Research Methodology** (Inter Disciplinary) equivalent to 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.**
20.	Presented Research paper title "**An Extended Efficient Approach to Dynamic Fragment 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.
21.	Attended UGC-Sponsored **Short Term Course in MOOCs and OER** from **08 June to 14 June 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.**
23.	Attended Two Days Workshop on Wordpress and SEO on **Feb 2019**as a Member of Organizing 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 2019**at MKP(PG) College, Dehradun.
25.	Attended International Conference on **Innovative Sustainable Computational Technologies(CISCT-**2019) on 11-12thOctober 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.

Award:

1.	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).