Dr. Praveena Chaturvedi MCA, Ph.D

Associate Professor,
Department of Computer Science
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1. Father's Name	:	Lt. Shri S N Chaturvedi
2. Mother's Name	:	Lt. Smt. Kusum Chaturvedi
3. Date of Birth	:	24th July, 1970
4. Permanent Address	:	34/1, Arya Nagar Block 2, Dehradun, 248001. Uttarakhand India.

5. Educational Qualification:
- Ph. D. (Computer Science), 2010, Gurukula Kangri Vishwavidyalaya, Hardwar, India
- M.C.A, 1994 from Kamla Nehru Institute of Technology (KNIT), Sultanpur, UP, India in First Division (68%).
- Bachelor of Science 1990 from Kanpur University, UP India in First Division.

6. Field of Research: Mobile Agent Technology, VANETs, Biometrics, Data science and IoT.

7. Work/Teaching Experience Approx. 26 years (Teaching experience at PG Level)	:	Nov 94'- 15th Oct. 95 Guest Lecturer at Kanpur University. **17th Oct' 1995 – 12th April 1999** Worked as Adhoc Lecturer, Kanya Gurukul Campus, Dehradun. (Gurukul Kangri Deemed to be University, Haridwar **13th April 1999-12th April 2005** Lecturer (Permanent). Grade Rs 8000/ -275 to 13500/ **13th April 2005 - 12th April 2010** Sr. Lecturer (AP) Grade Rs 10000/- -375 to 15200/- & converted to 15600/ - 39600/ AGP 7000/- **13th April 2010-12th April 2013** 15600/ - 39600/ AGP 8000/- **Associate Professor (13th April 2013 to date)** Pay Scale Rs. 37400/- ─ 67000/- with AGP Rs. 9000/-
8. Research Experience	:	**Ph.D. Awarded: 5 (first student enrolled in 2013)** **Ph.D. enrolled: 1**

✓ Thesis titled "Agent Based approach for performance enhancement in Distributed environment" **awarded** to Ms Preeti on dated **25/02/2017**

✓ Thesis titled "Analysis and Design of Evolutionary algorithm for Stochastic Optimization" **awarded** to Ms Pooja on dated **15/07/2017**

✓ Thesis titled "Improving QoS in OFDM wireless network through scheduling and resource allocation" **awarded** to Ms Swati Rawat on dated **24/05/2021.**

✓ Thesis titled "Analysis and Design of Biometric system based on spectral processing" **awarded** to Ms Annu Sharma on dated **04/08/2021.**

✓ Thesis titled "Development of performance enhancement of routing mechanism for VANETs" **awarded** by Ms Vibha Oberoi on dated **23/02/2022.**

9. Publications:

Paper Published (55) + (04) Book Chapters	:	Journal: 25 Proceedings: 30 Book Chapters: 04
Paper Presented (24)	:	International conference: 17 National conference: 07
Book published (1)		"Mobile Agent & its Application", LAP Lambert Academic publisher, Germany, ISBN: 978-3-659-53720-2
Patent (1)		STUDENT ASSESSMENT USING MACHINE LEARNING published date 03/09/2021.

10. Course Attended

Orientation Course Attended	:	HP University Shimla, from 27th Nov. to 23th Dec 2000.
Refresher Courses Attended (3)	:	1. Sardar Vallabh University, Anand GUJRAAT during 31st May-19th June 1999. 2. Calicut University, KERALA 4th to 24th Jan 2007 3. Jawahar Lal Nehru Technological Institute (JNTU) Hyderabad, Andhra Pradesh 25th - 16th Sep 2008.
Workshop Attended (4)	:	1. Faculty Updation Programme titled **"Linux system programming, Embedded Linux & Driver development"** conducted by C-DAC Hyderabad in collaboration with Jawahar Lal Nehru Technological Institute (JNTU) Hyderabad, AP, HRD Division 7th - 18th Dec. 2009. **(2 weeks)** 2. Workshop on **"Parallel and Distributed Computing"**, conducted by UGC at JayPee University of Information Technology (JUIT),

Shimla, from 23-05-2011 to 27-05- 2011. **(1 Week)**

3. Two Days Workshop entitled **Word Press and Search Engine Organization (SEO)** at Department of Computer Science, Gurukula Kangri Viswavidyalaya, Haridwar held on 15-16 February 2019. (Member Organizing Committee)

4. Two Days Workshop entitled **Business Analytics using Python** at Department of Computer Science, Gurukula Kangri Viswavidyalaya, Haridwar (UTTARAKHAND) held on 1-2 November 2019. (Member Organizing Committee)

Workshop conducted (2) :

Workshop on **"Cyber Security"**, **Sponsored by the cyber–Blog India organized** by Department of Computer science, Kanya Gurukul Campus, Dehradun, Uttarakhand, dated 14th February 2015.

Online Seven days' workshop on "EXCEL@EXCEL" organized by Research Monitoring Committee at KGC, Dehradun from 15th September to 21st September 2021.

11. Research papers published in Journals

1. Praveena Chaturvedi, "Partitioning the Job through Mobile Agents Visiting E- Shop" published in journal of Management and Technology vol. 01 issue 02, 2006, pp. 83-87 with ISSN: 0975-6280.

2. Praveena Chaturvedi, "Node Coverage rooting Strategies for Mobile Agent", PP. 75 - 82, published in Journal of International Management and Technology, 2010 with ISSN No. 0973-0097.

3. Praveena Chaturvedi, "Mobile Agent Cloning: An Application to network management", published in Pragyan: Journal of Information Technology, pg. 5-10, volume 9: issue 1, June 2011 and ISSN: 0974-5513.

4. Preeti, Praveena Chaturvedi, "An Analogous Study of Fault Tolerance Techniques in Mobile Agents", published in International Journal of Computer Science Engineering (IJCSE), Vol. 3 No. 2, March 2014 pp-147-151, ISSN: 2319-7323.

5. Pooja, Praveena Chaturvedi, "Multiobjective Evolutionary algorithms: A survey" published in Journal of management and technology, JIM Quest Volume 1 No 10, January - June 2014, pp 83-86, ISSN: 0975-6280. **UGC CARE Link** https://ugccare.unipune.ac.in/Apps1/User/WebA/ViewDetails?JournalId=1010

6. Pooja, Praveena Chaturvedi, "Control Parameters and Mutation Based Variants of Differential Evolution Algorithm", published in Journal of computational methods in science and engineering ISSN 1472-7978. pp 783-800, January 2015. Doi:10.3233/jcm/150593

7. Preeti, Praveena Chaturvedi, "Building Mobile Agents Applications Fault Tolerant", published in International journal of hybrid information technology IJHIT ISSN 1738-9968 (DOI:2015.8.5.13) vol 8, May 2015, pp 119-128.

8. Pooja, Praveena Chaturvedi, "A Cultivated Differential Evolution Algorithm using modified Mutation and Selection Strategy" published in Innovative Systems Design and Engineering (IISTE) , Vol 6, No 2, 2015 pp. 67-74. ISSN 2222-1727.

9. Annu Sharma, Praveena Chaturvedi, Shwetank Arya, "Human Recognition Methods based on Biometric Technologies", (0975 – 8887) Volume 120 – No.17, June 2015, with **Impact factor 0.752** pp 1-7 published in International Journal of Computer Applications (IJCA) doi: 10.5120/21316-4312 ISSN 0975-8887.

10. Praveena Chaturvedi, "An Exclusive Pathway Towards the Management of Big Data" published in Global journal of engineering science and research management ISSN 2349-4506, with **IF: 2.265**, August 2015 pp 29-32.

11. Preeti, Praveena Chaturvedi, "A generic Secure and Reliable Mobile Agent Framework (SeRMAF)", published in International journal of applied sciences and engineering research with **IF: 0.40** (DOI:10.6088). ISSN 2277-9442, October 2015, pp 767-776.

12. Praveena Chaturvedi, "A novel approach to Big Data Management" 3rd march 2016, pp 99-102 published in International Journal of computer science and engineering (IJCSET) ISSN 2229-3345

13. Preeti, Praveena Chaturvedi, "Shielding Security Sensitive parts of Mobile Agent" published in International Journal of Computational Intelligence Studies by Inderscience Publishers (IEL) PP 289-302, Vol 5, Issue 3-4, 2016-17. https://doi.org/10.1504/IJCISTUDIES.2016.083575. **UGC CARE Linkhttps://ugccare.unipune.ac.in/Apps1/user/webA/SearchList**

14. Swati Rawat, Praveena Chaturvedi, "An Overview: OFDM Technology an Emerging Trend in Wireless Communication" published in "International Journal of Innovative Research in Computer and Communication Engineering", Volume5, Issue -3, March 2017, PP.3947-3952, DOI: 10.15680/IJIRCCE.2017. 050304, UGC, GOOGLE scholar

15. Swati Rawat, Praveena Chaturvedi, "Performance Analysis of QoS Parameters in OFDM Based Network", published in "International Journal of Scientific Research in Network Security and Communication" Volume-5, Issue-3, June 2017, PP 128-132.

16. Pooja, Praveena Chaturvedi, "An Efficient Algorithm based on Differential Evolution for Optimum Process Scheduling" published in International Journal of Data Science (Inder science Publication) Vol 2, No 3, 8 September 2017, PP 260-272, ISSN 2053-0811, Scopus link https://www.scopus.com/sourceid/21100970247
UGC CARE Link https://ugccare.unipune.ac.in/Apps1/User/WebA/SearchList

17. Pooja, Praveena Chaturvedi, "A Novel differential approach for constraints optimization", published in International Journal of Bio-Inspired Computation Inderscience Publishers (IEL), Vol 12, Issue 4, PP 254-265, 6 December 2018. **(SCI index 3.98).impact factor (Clarivate Analytics) 2021 Linkhttps://mjl.clarivate.com:/search-results?issn=1758-0366&hide_exact_match_fl=true&utm_source=mjl&utm_medium=share-by-link&utm_campaign=search-results-share-this-journal**

18. Annu Sharma, Shwetank Arya and Praveena Chaturvedi, "An improved Multispectral fingerprint biometric system based on Wavelet Transformation" Accepted for publication in International Journal of Engineering and Technology (UAE) Presented in International Conference on Materials, Applied Physics & Engineering (ICMAE 2018). (Indexed by SCOPUS)

19. Swati Rawat, Praveena Chaturvedi, "An Enhanced QOS Aware Scheduling Algorithm for OFDM Wireless Network" published in International Journal of Hybrid Information Technology (IJHIT)", ISSN 1738-9968, Volume-12-Issue-2-April-June-2019, PP. 27-36. **Scopus link https://www.scopus.com/sourceid/21100853982**

20. Vibha Oberoi, Praveena Chaturvedi, "Challenges Faced by Routing Protocols over VANETs" published in International Research Journal of Engineering and Technology (IRJET) with IF: 7.34, e-ISSN: 2395-0056 Volume: 06 Issue: 11 | November 2019 www.irjet.net p-ISSN: 2395-0072. PP 2039-2047.

21. Vibha Oberoi, Praveena Chaturvedi, "Implementation of Real Time Traffic Network" published in IJCSN - International Journal of Computer Science and Network, Volume 8, Issue 6, **IF: 1.5**, December 2019, ISSN (Online) : 2277-5420 www.IJCSN.org

22. Annu Sharma, Shwetank Arya and Praveena Chaturvedi, "Multispectral Image Fusion System Based on Wavelet Transformation for Secure Human Recognition", Published in International Journal of Advanced Science and Technology (IJAST) Vol. 28, No. 19, pp. 811- 820, December 2019. (Indexed by SCOPUS) DOI: http://sersc.org/journals/index.php/IJAST/article/view/2667.Scopus Link https://www.scopus.com/sourceid/21100829147

23. Swati Rawat, Praveena Chaturvedi, "A QoS Aware RA Algorithm for OFDM Network", published in Journal of Engineering Education Transformations (JEET)" ISSN 2349- 2473, eISSN 2394-1707, 27 Feb 2020. Scopus Link https://www.scopus.com/sourceid/21100890669

24. Vibha Oberoi, Praveena Chaturvedi, "Multi Constraints Optimal Path based on Routing Protocols in VANETs" published in International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-6, PP 4274-4278 March 2020. SCOPUS Link https://www.scopus.com/sourceid/21100889873

25. Vibha Oberoi, Praveena Chaturvedi, "Topology based Routing Protocol in Vehicular Ad-Hoc Network", published in Invertis Journal of Science & Technology, Volume 13, Issue 4, October-December, 2020 pg. 196-202.

12. Conference publication & Presentation:

1. Praveena Chaturvedi, "*Partitioning the Job through Mobile Agents Visiting E- Shop" presented at International Conferences* on Challenges in Networking & Future of E-Commerce 05 organized by APITT SD INDIA, Panipat on 9th-10th April 2005,

2. Praveena Chaturvedi, "Architecture *for Mobile Agent" presented at National Conference* on statistics, Computer and Applications on dated 28th to 30th Nov. 2005 at Government Vidarbh Institute of science and Humanities (GVISH) Amravati Maharastra.

3. Praveena Chaturvedi, *"Mobile Agents: Its Security Issues and Sets of Measures"* presented and published and in proceedings of *National Conference* on Communication and Computational Techniques, on dated 10th to 11th Feb. 2006 at Dehradun Institute of Technology, Dehradun, pp. 387-391.

4. Praveena Chaturvedi, "Performance evaluation through Multiple Mobile agents and dynamic routing on network" presented and published in proceedings of International Conference on Information & Communication Technology (IICT), on dated 26th to 28th July 2007 at Dehradun Institute of Technology (DIT), Dehradun, pp. 767-770.

5. Praveena Chaturvedi, *"Secure solution for Mobile Agent applications"* presented and Published in proceedings of All India seminar on ICT for Rural Development: Access and Applications (ICTRD- 2009) organized by The Institution of Engineers (INDIA) on dated 11-12 September 2009 at Udaipur, Rajasthan India, pp. 117-120.

6. Praveena Chaturvedi, "Cloud Computing Initiative using Mobile Agent." presented at International Conferences on Computing: Updates & Trends (CUT – 2010) Jaipuria group of institutions, Ghaziabad.

7. Praveena Chaturvedi, "High Performance Mobile Agent.*"* presented *at national Conferences* on "Creation High Performance" dated 12 March 2010 at Fortune Institute, New Delhi.

8. Praveena Chaturvedi: presented a Paper titled "Water Pollution & Human Health: Issues & Solution." in International conference on "Biodiversity and Environmental Governance in CANADA and India: Safeguarding and Ecosystems for Human welfare organized by the centre for Canadian Studiesgurukul kangri Viswavidyalaya, Haridwar. (21st to 23rd October 2010)

9. Praveena Chaturvedi, Nipur, published full paper titled "Network Management & Routing Strategies with Mobile Agent" in Proceedings of the 4th National Conference; INDIACom-2010 Computing for Nation Development, Bharati Vidyapeeth's Institute of Computer Applications and Mgmt, N Delhi, Feb 25 – 26, 2010: ISSN: 0973-7529, ISBN-978-93-80544-78-6

10. Praveena Chaturvedi: presented a Paper titled *"Parallel Computation & Mobile Agent cloning",* in 98th International conference of Indian Science Congress Association, at SRM university, Chennai, TAMILNADU. (January, 2011).

11. Praveena Chaturvedi: presented and published a Paper titled *"Managing Distributed System through Agent Cloning",* in International conference of Machine Learning and Computing (ICMLC 2011), at **Singapore. (February, 2011).**

12. Praveena Chaturvedi: presented a Paper titled *"Environmental Consciousness: A Global Revolution",* in National Seminar on "Indian Writing in English: Text and Context", conducted by English Department of Kanya Gurukul Mahavidyalaya Dehradun (Second Campus of GKV Haridwar). (October, 2011).

13. Praveena Chaturvedi: presented a Paper titled *"Wireless Sensor Network with Mobile Agent: A Novel Approach",* in National Seminar on "Innovations and Applications in Engineering and Applied Sciences (IAEAS-2011)", conducted by Faculty of Engineering and Technology, Gurukula Kangri Viswavidyalaya, Haridwar. (9 – 10 November 2011).

14. Praveena Chaturvedi, presented a Paper titled "Distributed computing Environment based on Mobile Agent", at 99th International Conference of Indian Science Congress, conducted by KIIT University Bhuwnweshwar, ORISSA. (3-7 January 2012)

15. Praveena Chaturvedi, presented a Paper titled "Introduction to Wireless Sensor networks." In International conference on "Recent Trends in Computing". at SRM University, Ghaziabad. (October 4-5, 2012)

16. Praveena Chaturvedi, presented a Paper titled "New Era Intelligent Computing Multimodal Medical Image Fusion using Dempser Shafer Evidence Theory" in National conference on "Progress in Electronics & Allied sciences (PEAS 2012)" conducted by Faculty of Engineering & Technology, GKV Haridwar. (November 3-4, 2012)

17. Praveena Chaturvedi, published a Full Paper titled "Dempster Shafer Theory: A Litrature Survey" in Conference Proceedings of the International Conference on Communications & Electronics ICCE 2012, October 19- 20th 2012 organized by Department of Electronics and Communication Engineering KIET Group of Institutions, Ghaziabad. ISBN No.:978-93-81583-69-2.

18. Praveena Chaturvedi, presented a Paper titled "Forensic research by Face Recognition: An Assemble Neural network with co-evolutionary algorithm approach", in 100h International Conference of Indian Science Congress Association, at University of Calcutta, Bengal. (January 3-7, 2013)

19. Praveena Chaturvedi, presented a Paper titled "A Small step towards the fault tolerant approachs in MAS", in International conference on "Innovative Ways of managing Business in the Post Globalised Era conducted by Bhartiya Vidyapeeth, Institute of management and Research, New Delhi. (February 2-3, 2013)

20. Praveena Chaturvedi, presented and published a paper titled "Fault Tolerance in Mobile Agents: An Overview", in proceeding of 2nd International Conference on Recent Trends in Computing, Ghaziabad, pp-84-87, (4-5 October 2013).

21. Praveena Chaturvedi, presented a paper titled "A survey of biometric system for human recognition" in "International Conference on Modeling and Computing ICMC 2014" at Babasaheb Bhimrao Ambedkar University. (10-11 July 2014)

22. Praveena Chaturvedi, presented a paper titled "A novel transaction manager based approach for fault tolerance in mobile" in "Second international conference on Emerging Research in Computing, Information, Communication and Applications ERCICA-2014" at NITTE Meenakshi institute of technology yelahanka, bangalore (1-2 August 2014).

23. Praveena Chaturvedi, presented a paper titled "A cultivated differential evolution algorithm using modified mutation and selection strategy" in "International conference on modeling, simulation and optimizing techniques" ICMSOT-2015" at DAV college, JALANDHAR (12-2 14 February 2015).

24. Pooja, Praveena Chaturvedi, "A Cultivated Differential Evolution variant for Molecular Potential Energy problem" published in Procedia of Computer Science Journal (Elsevier), Vol. 57, PP 1265-1272, ISSN 1877-0509, DOI: 10.1016/j.procs.2015.07.429, 2015.

25. Praveena Chaturvedi, presented a paper titled "Investigation into biometric system for human recognition" in International conference on "MAKE IN INDIA" through sustainable development achieving inclusive growth, at Bharati vidyapeeth deemed university, new Delhi 5th -6th Feb 2016.

26. Praveena Chaturvedi, presented a paper titled "A multi-spectral identification system for human recognition" in International conference on "MAKE IN INDIA" through sustainable development achieving inclusive growth, at Bharati vidyapeeth deemed university, new Delhi 5th - 6th Feb 2016.

27. Swati Rawat, Praveena Chaturvedi, "A Comparative Analysis of Different QOS Strategies in OFDM Wireless Network", published in "International Conference on Next Generation Computing and Information Systems (ICNGCIS17)" PP.116-121 10.1109/ICNGCIS.2017.15. (Scopus, SCI Indexed conference), 2017, **Date Added to IEEE *Xplore*:** 05 November 2018.

28. Praveena Chaturvedi, presented a paper titled "Vehicular Communication Scenario and Requirements: Current state and Challenges" in the INFINITY 2018 – International conference on the theme of Digitization and Digitilization: Past, Present and Future held at Amity Business School, Amity University, Noida on dated 11th -12th October 2018.

29. Annu Sharma, Shwetank Arya and Praveena Chaturvedi, "A Novel Image Compression Based Method for Multispectral Fingerprint Biometric System", Published in Elseveir Science Direct Procedia Computer Science Volume 171, Pages 1698-1707, January 2020. (Indexed by SCOPUS) DOI:https://www.sciencedirect.com/science/article/pii/S1877050920311637.

30. Swati Rawat, Praveena Chaturvedi, "GA Induced QoS Routing Approach in OFDM Wireless Network", published in 5th International Conference on Next Generation Computing Technologies (Presented), January 29, 2020). PP. 1-14, Available at SSRN: https://ssrn.com/abstract=3527355 or http://dx.doi.org/10.2139/ssrn.3527355.

13. Chapters published in Books

1. Praveena Chaturvedi: published a chapter titled "Nanotechnology and Environment: Boon or Bane, Pgs 223-229. in a book titled "Sustainable Approaches for Environmental Conservation by D. R Khanna, A. K Chopra, Gagan Matta & Vikas Singh, published by BIOTECH BOOKS, NEW DELHI, ISBN No. 978-81-7622-280-8, 2013.

2. Pooja, Praveena Chaturvedi, "Population Segmentation based Variant of Differential Evolution Algorithm", published in Proceedings of Fifth International Conference on Soft Computing for Problem Solving, as Book Chapter PP 401-410, April 2016. Springer Singapore.DOI: 10.1007/978-981-10-0451-3_37, ISBN (print) /978-981-10-0450-6.

3. Annu Sharma, Shwetank Arya and Praveena Chaturvedi, "On Performance Analysis of Biometric Methods for Secure Human Recognition", published in book "Recent Innovations In Computing", Lect. Notes Electrical Eng., Vol. 701, 978-981-15- 8296-7, https://eproofing.springer.com/books_v3 Springer, 2020. (Indexed by SCOPUS). pp 433-444 **First Online:** 13 January 2021

4. Swati Rawat, Praveena Chaturvedi, "A Generalised QoS Efficient Framework (QoSE) for OFDM wireless Network", published in Data Driven Approach Towards Disruptive Technologies, Proceedings of MIDAS 2020 (pp.433-447) April 2021. http://dx.doi.org/10.1007/978-981-15-9873-9_34

14. Invited Talk and Keynote address:

1. Key Resource Person of FDP on multivariate Analysis using SPSS and Structural Equation and Modelling – AMOS organized by BVIMR, New Delhi on 16-17 August 2014

2. Key Note Speaker at two days National conference on "Recend Trends and Technologies in Data Science and Artificial Intelligence" organized by Department of Computer Science and IT, Bhaderhwah Campus, University of Jammu held on 25-26 August 2016.