

Curriculum Vitae

Dr.Pushpa Mamoria

B.E.(Comp Sc. & Engg.), M.Tech.(Computer Science), PhD(Computer Science)

Senior Lecturer

Department of Computer Application

UIET, CSJM University,

Kanpur (U.P.) 208016, INDIA.

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Specialization Image Processing, Fuzzy Logic

Research Interests Image Processing, Fuzzy Logic, Neural Network, Soft Computing, IoT, Machine Learning, Deep Learning, Wireless Sensor Networks

Education	Ph.D. (Computer Science)	2014-2018
	Babasaheb Bhimrao Ambedkar University (A Central University) Lucknow, India	
	M.Tech. (Computer Science)	2000 - 2002
	School of Computer Science Indore (M.P.)	
	B.E. (Computer Science & Engineering)	1996 - 2000
	Shri G. S. Institute of Technology & Science Indore (M.P.)	
	12th standard (Higher Mathematics)	1993-1994
	Pink Flower Higher Secondary School Indore (M.P.)	
	10th standard (All subjects including Sanskrit)	1991-1992
	Pink Flower Higher Secondary School Indore (M.P.)	

Academic Experience UIET, University of Kanpur
Department of Computer Application

Senior Lecturer
Dec 2007 –
present

	Indian Institute of Information Technology Allahabad Department of information technology	Lecturer(on senior scale) July 2005 – Dec 2007
	College of Engineering Roorkee Department of Computer Science	Lecturer July 2004 – June 2005
	IIAS, Indore Department of Computer Science	Lecturer Oct 2003 – June 2004
	IIPS, DAVV, Indore Department of Computer Application	Lecturer Feb 2002 – Oct 2003
	IPS ACADEMY, Indore Department of Computer Application	Guest Lecturer Jan 2001-June 2001
Relevant Courses	Computer Networks, Computer Organization & architecture, Wireless Sensor Networks, Operating Systems, Digital Image Processing, Graph Theory, Fuzzy Logic, Neural Networks, Software Engg., Soft Computing	
Skills	<i>Programming Languages:</i> C, C++, Java, Python, Perl <i>Libraries and Tools:</i> MATLAB, NS-2 Network Simulator	
Research Publications	1. Pushpa Mamoria , Deepa Raj, "An Optimized Multiple Fuzzy Membership Functions based Image Contrast Enhancement Technique," KSII Transactions on Internet and Information Systems , vol. 12, no. 3, pp. 1205-1223, March 31, 2018. DOI: 10.3837/tiis.2018.03.(SCI)	2018
	2. Pushpa Mamoria et al. , An Efficient Technique for Facial Expression Recognition Using Multistage Hidden Markov Model. Soft Computing: Theories and Applications Advances in Intelligent Systems and Computing , vol 742 Springer, Singapore, 2019.	2019

3. **Pushpa Mamoria**, Deepa Raj, An Analysis of Fuzzy and Spatial Methods for Edge Detection", **International Journal of Information Engineering and Electronic Business (IJIEEB)**, Vol.8, No.6, pp.62-68, 2016. DOI: 10.5815/ijieeb.2016.06.08, **MECS** 2016. 2016
4. Deepa Raj, **Pushpa Mamoria**, Image Enhancement Techniques in the Spatial Domain: An overview", ***The IUP Journal of Computer Sciences, India***, April 2015, ISSN: 0973-9904. 2015
5. Deepa Raj, **Pushpa Mamoria**, Comparative analysis of Contrast Enhancement Techniques on different Images", **International Conference on Green Computing and Internet of Things**, ICGCIoT, 8-10 October 2015, **IEEE**. 2015
6. **Pushpa Mamoria**, Deepa Raj, Comparative analysis of Contrast Enhancement Techniques with Fuzzy Logic", **International Conference on Green Computing and Internet of Things**, ICGCIoT, 8-10 October 2015, **IEEE**. 2015
7. **Pushpa Mamoria**, Deepa Raj, A Comparative Study of Classical Contrast Enhancement Technique and Fuzzy Logic on Medical Images", 3rd **Lucknow Science Congress (LUSCON- 2015)**, October 31-November 2, 2015, India. 2015
8. **Pushpa Mamoria**, Deepa Raj, An Analysis of Images Using Fuzzy Contrast Enhancement Techniques", **International Conference on Computing for Sustainable Global Development**, 16th-18th March 2016, **IEEE**. 2016
9. **Pushpa Mamoria**, Deepa Raj, An Analysis of Fuzzy Contrast Enhancement Methods using Satellite Image, **International Conference on Computing for Sustainable Global Development**, 1st-3rd March 2017, **IEEE**. 2017
10. **Pushpa Mamoria** et al., A Backoff Analysis to Mitigate the Correlated Contention for Event-Driven Wireless Sensor Networks, National conference on current trends in Computing, **NCCTC-2014, North Orissa University, ORRISA**, 23-24 March 2014. 2014

	<p>11. Pushpa Mamoria, Energy controlled event reporting in event-driven sensor networks, International Journal of Engineering Science and Technology, 2012</p>	2012
	<p>12. Pushpa Mamoria et al., Stability Analysis of Epidemic Modeling Based on Spatial Correlation for Wireless Sensor Networks. Wireless Personal Communications, Springer US, 2019.</p>	2019
	<p>13. Pushpa Mamoria, Deepa Raj, Comparison of Mamdani Fuzzy Inference System for Multiple Membership Functions", International Journal of Image, Graphics and Signal Processing (IJIGSP), Vol.8, No.9, pp.26- 30, 2016, MECS 2016.</p>	2016
	<p>14. Pushpa Mamoria et al., An Efficient and Robust Technique for Facial Expression Recognition Using Modified Hidden Markov Model, International Journal of Applied Evolutionary Computation (IJAEC), 2018.</p>	2018
	<p>15. Pushpa Mamoria et al., "Modeling SIRD Model with Spatial Correlation for Wireless Sensor Network Applications," Book chapter in Book titled "Emerging Trends in Commerce, Economics, Information Technology, and Management."</p>	2021
Memberships	<p>1. Life Member of Computer Society of India.</p> <p>2. Life Member of ISTE.</p> <p>3. Member of International Association of Engineers.</p> <p>4. Member of ISOC</p>	
Activities	<p>International Faculty Development Program on "Research Perspectives on A.I., ML, Data Science & IoT"</p> <p>Faculty Development Program on Cyber Security</p> <p>06 Webinar, 04 eFDP, 01 online workshops in the year 2020</p> <p>Summer School Program ACA summer school on Data structure and Algorithms, web programming, basic C++</p>	<p>May 17 to June 5, 2021</p> <p>May 24th-29th, 2021</p> <p>2020</p> <p>June 10 – July 05, 2013</p>

and advanced C++, held at Department of Computer Science, Indian Institute of Technology, Kanpur.

QIP short-term program Quality improvement program (QIP) short-term on Intelligent Informatics, held at Department of Electrical Engineering, Indian Institute of Technology Kanpur	July 15 – 19, 2013
Five days Workshop on Network Science Workshop on Introduction to Network Science, held at Indian Institute of Science, Bangalore, India.	Aug, 29 – September 02, 2011
Short-term Course on Telecommunication Networks "A short-term course on Telecommunication Networks with State-of-the-Art Hands-on Experiments," held at Indian Institute of Technology Kharagpur.	June 20 – 27, 2011
Short Course on RFID "A short-term Course on Principles and Practices in Radio Frequency Identification (RFID)," held at the Department of Electrical Engineering, Indian Institute of Technology Kanpur.	Nov, 10 - 15, 2007
Three days Workshop on "Data stream Workshop on Data stream" held at Indian Institute of Technology Kanpur	Dec, 18 – 20, 2006
One Week QIP program held at the Indian Institute of Technology Roorkee.	June 26 – 30, 2006
Two Weeks QIP program held at the Indian Institute of Technology Kanpur.	May 16 – 31, 2006
I have worked with students at various supervisory positions in various Technical festivals and Cultural Festivals at multiple universities.	2002-present

Administrative Experiences

Head of the Department	2018-2021
Member of Proctorial Board	2018-present
Member of Academic council	2018 onwards
Member of Academic Advisory	2018-present

AICTE related committee	2018-present
Convener of Examination Committee	2007 many times
Member of UIET Grievance Redressal Committee.	2021

Place: Kanpur

(Dr. Pushpa Mamoria)