

## RESUME

**Name** : Dr. Sangeeta N. Kakarwal  
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**Professional Membership**  
1. ISTE Member  
LM93025  
2. IEEE Member  
93050191  
**Language Proficiency** : English, Hindi, Marathi  
**Languages & Packages Known** : C, C++, Oracle & MATLAB.  
**Web Page Designing Softwares Known** : HTML, Active Server Page, Java  
**Operating System Known** : WINDOWS XP, Linux  
**Educational Qualification** :

Name of Examination	Year of Passing	Name of School/College/ University	Grade Obtained
SSC	1990	Sharda Mandir Girl's High School, Aurangabad	Distinction
HSC	1992	Govt. College of Arts And Science, Aurangabad	First Class
BE(CSE)	1996	Jawaharlal Nehru Engineering College, Aurangabad	First Class
ME(CSE)	2005	Govt. College of Engineering ,Aurangabad	Distinction
Ph.D. (CSE)	2013	Department of Computer Science & IT, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	Ph.D. degree awarded in 2013

### **Working Experience:**

1. Worked as a Technical Assistant in MGM's Software Technology Park, Aurangabad from 19/08/1996 to 27/02/1997 (six months).
2. Worked as a Lecturer in Department of Computer Science and Engineering of MGM's College of Engineering and Technology, Navi Mumbai from 11/3/1997 to 29/7/1997 (five months).
3. Worked as a Lecturer in Department of Computer Science and Engineering of Marathwada Institute of Technology, Aurangabad from 01/08/97 to 04/01/1999 (one and half year).
4. Worked as a Lecturer in Department of Computer Science and Engineering of P.E.S. College of Engineering, Aurangabad from 4/01/1999 to 27/06/2005 (6 years and 5 months).

5. Worked as an Associate Professor in Department of Computer Science and Engineering of P.E.S. College of Engineering, Aurangabad from 28/06/2005 to 30/06/2013.
6. Currently working as a Professor in Department of Computer Science and Engineering of P.E.S. College of Engineering, Aurangabad from 01/07/2013 to till date.

### **Responsibilities Held:**

1. Worked as a Chief Superintendent for the Dr. Babasaheb Ambedkar Marathwada University Engg. Examination at P.E.S. College of Engineering.
2. Worked as a Under Study for the Dr. Babasaheb Ambedkar Marathwada University Engg Examination at P.E.S. College of Engineering.
3. Worked as a Warden of Vaishali Girl's hostel at P.E.S. College of Engineering.
4. Worked as a Local Inspection Committee member for the affiliation of B.Tech. Course of MIT College, Aurangabad.
5. Visiting lecturer for Part-Time PG course (ME(CSE)) at Govt. College of Engg. For 3 semesters.  
Subjects Taught: 1. Advance Algorithm 2. Image Processing 3. Soft Computing
6. Subject Expert for conducting the interview for the post of an Assistant Professor at Jawaharlal Nehru Engg College and Marathwada Institute of Technology College of Engg, Aurangabad.
7. Examiner / paper setter for U.G. as well as P.G. examinations of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
8. Delivered a Guest Lecture for UGC sponsored 68<sup>th</sup> orientation course for teacher educatory at Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. (15/02/2007).
9. Worked as Deputy Chief Superintendent for AIEEE Exam 2010 at P.E.S. College of Engineering, Aurangabad.
10. Worked as a Resource person in the workshop "MATLAB and its applications in Engineering" at Government College of Engineering, Karad
11. Worked as First Year Engg. Incharge for 3 semester at P.E.S. College of Engineering, Aurangabad
12. Worked as First Year Engg. Admission Counsel In-charge of P.E.S. College of Engineering, Aurangabad.
13. Working as a Head of Information Technology Department of P.E.S. College of Engineering, Aurangabad from 18/06/2012 to till date.
14. Visiting lecturer for M. Tech.(CSE) at Department of Computer Science & IT of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.  
Subject taught: 1. Elective-I (Distributed Operating System)  
2. Image Processing and Pattern Recognition
15. Worked in Syllabus Setting Committee of SE(CSE/IT), ME(CSE) and Ph.D.(CSE) of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
16. Worked as a member of 'Avishkar' 2014 at Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
17. Delivered a Guest Lecture for Refresher Course in Women Studies(ID) at Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (18/03/2014).

## Activities Conducted:

1. As a Co-Convener of TECTRIX-2007 organized paper presentation/ programming contest at P.E.S. College of Engineering, Aurangabad in the year 2007.
2. As a Head of Exam conducted MS-CIT Exam at Computer Science and Engineering Department of P.E.S. College of Engineering, Aurangabad in July 2008 and July 2010.
3. Arranged a Parent's Meet program at P.E.S. College of Engineering, Aurangabad in the year 2009.
4. Arranged a 3 days workshop on "IBM DB2 Certification Training Program" and On-line Exam of IBM DB2 Certification at Department of Computer Science and Engineering of P.E.S. College of Engineering, Aurangabad in the year 2009.
5. Arranged Guest lectures at Department of Computer Science and Engineering of P.E.S. College of Engineering, Aurangabad on the following topics:
  - i) Net Technologies
  - ii) Awareness of Java and Oracle Certification
  - iii) Oracle 10g
6. As a Head of Department of Information Technology of P.E.S. College of Engineering, organized following events
  - i) Workshop for the student on Cloud Computing.
  - ii) Guest Lectures on various topics
  - iii) Workshop for the staff of various colleges on TE CSE/IT Revised Syllabus of Dr. Babasaheb Ambedkar Marathwada University On 10/08/2013
  - iv) Training program for the teaching and non teaching staff of P.E.S. College of Engineering on Linux.
  - v) Workshop on Network Simulator2 for Second year students.
  - vi) Parent's meet on 07/03/2014.
  - vii) As a convener organized One week IETE sponsored Short Term Training Programme on Big Data Analytics from 02/06/14 to 06/06/14.

## Papers Publication:

### A) International Journal Papers:

1. Information Theory and Neural Network based Approach for Face Recognition: A Review, International Journal of Recent Trends in Engineering, pp. 176-178, Vol. 2, No. 4, Nov 2009.
2. Wavelet Transform based Feature Extraction for Face Recognition, pp. 100-104, International Journal of Computer Science and applications, Issue-I June 2010, ISSN 0974-0767.
3. Hybrid Feature Extraction Technique for Face Recognition, pp. 60-65, International Journal of Advance Computer Science and Applications, Vol.3, No.2, 2012, ISSN 2156-5570 (Online). **(Impact factor: 1.18)**
4. Performance Analysis of Face Recognition by Principal Component Analysis and Feed Forward Neural Network, International Journal of Engineering Innovations and Research, Vol.1 Issue 1 2012, ISSN 2277-5668, pp. 40-45.
5. Statistical Analysis of Face Recognition Technique, International Journal of Electronics Communication and Computer Engineering, Vol. 5, Issue 1, Jan 2014, ISSN (Online): 2249–

- 071X, ISSN (Print): 2278– 4209, pp. 115-119. **(Impact factor: 1.386)**
6. A Review on Cloud Computing Vulnerabilities, International Journal of Innovative Research in Science, Engineering and Technology, ISSN (Online) : 2319 – 8753, ISSN (Print) : 2347 – 6710, Vol.3, Special Issue4, April 2014, pp. 226-230 (Impact factor 1.682)
  7. A Survey on Traditional and Hybrid Approaches to Broadcasting in MANET, International Journal of Engineering Technology and Applied Science, Jan 2015, Vol.3 Issue 1, ISSN 2349-4476, pp. 01-16 **(Impact factor 2.24)**
  8. Analysis of Mutual Information as Facial Feature Extraction Technique, International Journal of Engineering Technology and Applied Science, Jan 2015, Vol.3 Issue 1, ISSN 2349-4476, pp. 131-138 **(Impact factor 2.24)**

#### **B) International Conference Papers:**

1. Analysis of Image Compression using DWT with emphasis on features Mean Squared Error and PSNR, International Conference ICSCI 2005, under the aegis of Pentagon Research Center, Hyderabad, pp. 492-494.
2. Analysis of Facial Image Classification using Discrete Wavelet Transform, International Conference ICSCI 2007, under the aegis of Pentagon Research Center, Hyderabad, pp. 700-705.
3. Image Classification using Neural Network, International Conference ICSCI 2007, under the aegis of Pentagon Research Center, Hyderabad, pp. 259-263.
4. Analysis of Classification by Supervised and Unsupervised Learning, International Conference on Computational Intelligence and Multimedia Applications ICCIMA'07 at Mepco Schlenk Engg. College, Sivkasi, Tamilnadu, ISBN 0-7695-3050-8, pp. 280-284.
5. Object Recognition using Correlation Technique, 4<sup>th</sup> International Colloquium on Signal Processing and its Applications (CSPA) 2008, Kuala Lumpur, Malaysia, pp. 301-306.
6. Face Recognition with Fourier Descriptors and Fisher Discriminant Analysis, International Conference on Biometrics Technologies and Applications, held on Aug 29, 2008 at Delhi, pp. 162-181.
7. Classification of Facial Images using FFNN, International Conference ICACT 2008 at GRIET, Hyderabad, pp. 435-438.
8. Face Recognition Using FD and FFNN, IEEE International Advance Computing Conference at Patiala on 6-7 March 2009, pp. 2740-2742
9. Experimental Analysis of Classification of Facial Images, IEEE International Advance Computing Conference at Patiala on 6-7 March 2009, pp. 3122-3127.
10. Analysis of Retina Recognition by Correlation and SVD, 2<sup>nd</sup> International Conference on Advances in Computer Vision and Information Technology at Aurangabad 16-19 December 2009, pp. 44-48.
11. Analysis of Retina Recognition by Correlation and Covariance Matrix, Third International Conference on Emerging Trends in Engineering and Technology 2010 at Goa, ISSN 2157-0477, pp. 496-499.
12. Diverse Classifier for Face Recognition, International Conference ICKE 2011, ISBN 978-81-8487-123-4, pp. 129-135.
13. Face Recognition using Supervised Learning, World Comp 2012, USA, Jul. 2012.
14. A Review on Comparison of Iterative Dichotomiser 3 and Naïve Bayes Classifiers, International Conference on Nanostructured Materials and Nanocomposites (ICNM 2014), M.G. University, Kerala, Dec 2014, pp.

15. Adaptive Thresholding for Image Enhancement: Hardware Approach, IEEE Conference ICNTE 2015 organized by Fr. C. Rodrigues Institute of Technology, Vashee, Mumbai

### **C) National Conference Papers:**

1. Image Compression Using Wavelet Transform A Review, National Conference on Computer Communication and Security organized by IETE and Dr. Babasaheb Ambedkar Marathwada University 2004, Aurangabad, pp. 66.
2. Finger Print Recognition and Image Analysis: A Review, National Conference and Workshop on Virtual Instruments, Embedded Systems & Robotics organized by Sensors Technology Pvt. Ltd. Gwalior 2004, pp. 87
3. Analysis of Image Compression using DWT with emphasis on features Entropy and Compression Ratio, National Conference on Digital Image Processing organized by Thadumal Sahni Engg College 2005, Mumbai, pp. 111-27-111-32
4. Fingerprint Identification System Using Automated Fingerprints Authentication System & Automated Fingerprint Identification System, National Conference organized by Royal Institute of Technology in the year 2005, Hyderabad.
5. Review: on Compression Techniques using Wavelet and Huffman Coding Methods, National Conference organized by Marathwada Institute of Technology in the year 2005, Aurangabad, pp. 180-183.
6. Analysis of Image Compression using DWT with emphasis on features Chi-Square test and Energy Content, National Conference organized by Govt.College of Engg in the year 2006, Aurangabad, pp. 109-113
7. Review: Neural Network and its Applications, National Conference organized by M.A.E. Alandi (D) , Pune.
8. Face Recognition using Probabilistic Neural Network, National level Conference on Recent Trends in Computers and Communications at Vidyalkar Institute of Technology, Mumbai, pp. 46-50
9. Digital Image Processing and its Applications: A Review, National level Conference on Recent Trends in Computers and Communications at Vidyalkar Institute of Technology, Mumbai, pp. 249-253.
10. Image Enhancement and Feature Extraction for Fingerprint Images: A Review, National Level Conference at M.I.T. Aurangabad.
11. Multimodal Biometric Recognition based on Decision Level using Wavelet Transform, J.T. Mahajan College of Engg., Jalgaon, pp. 23.

### **Workshops Attended:**

1. Participated in the workshop "Implementation of DSP Algorithms using Matlab and TMS 320C5402", organized by Jawaharlal Nehru Engg College, Aurangabad in the year 2003.
2. Participated in the workshop "Matlab and Simulink", organized by India Soft Technologies at Shrama Sadhana Trust's College of Engg at Jalgaon in the year 2003.
3. Participated in "National Symposium on Emerging in Database Technology", organized by P.I.E.T, Pune in the year 2004.

4. Participated in the workshop on “Satellite Data Processing”, organized by J.E.S. College of Arts and Science, Jalna in the year 2005.
5. Participated in the workshop on “Managerial skills”, organized by Govt. College of Engg., Aurangabad in the year 2005.
6. Participated in the workshop on “MATLAB for Computer Engineers”, organized by Govt. College of Engg., Aurangabad in the year 2005.
7. Participated in the workshop on “Octave-Open System Software”, organized by M.I.T. College of Engg., Aurangabad in the year 2009.
8. Participated in the workshop on “High Impact Teaching Skills”, organized by Wipro at J.N.E.C., Aurangabad in the year 2010.
9. Participated in “National Workshop on Data Warehousing and Data Mining” at Department of Computer Science and Information Technology of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad in the year 2010.
10. Participated in the workshop on “Effective Research Methodology” at M.I.T. College of Engg., Aurangabad in the year 2010.
11. Participated in the workshop on “Linux Administration” at P.E.S. College of Engg, Aurangabad in the year 2010.
12. Participated in the workshop on “Managing Clients and Server Operating System in Microsoft Technologies” at P.E.S. College of Engg., Aurangabad in the year 2010.
13. Attended one day workshop on Syllabus of First Year Engg., for the subject EECE at Shreyash Engg. College, Aurangabad in the year 2011.
14. Participated in ISTE STTP on “Engineering Optimization Technique and its Applications in Research” at Government College of Engg., Aurangabad in the year 2012.
15. Attended one day workshop on Syllabus of Second Year Engg. at M.I.T. B.Tech, Aurangabad in the year 2012.
16. Participated in a ISTE Short Term Course on “Soft Computing” at Jawaharlal Nehru Engg. College, Aurangabad in the year 2013.
17. Participated in a ISTE Short Term Course on “Data Mining: Research Oriented Approach”, at P.E.S. College of Engineering, Aurangabad, in the year 2013
18. Participated in a workshop on “Network Security” at Deogiri Institute of Engg. And Management, in the year 2014.
19. Participated in a “Workshop on Hadoop Technology” at Department of Computer Science and Information Technology of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad in the year 2014.

### **Special Achievements:**

1. Bagged “Best Paper Award” for the paper “Analysis of Facial Image Classification Using Discrete Wavelet Transform” in the International Conference ICSCI 2007, under the aegis of Pentagram Research Center, Hyderabad.
2. Bagged “Best Paper Award” for the paper “Image Classification using Neural Network” in the International Conference ICSCI2007, under the aegis of Pentagram Research Center, Hyderabad.
3. Bagged “Best Paper Award” for the paper “Diverse Classifier for Face Recognition” in the International Conference ICKE 2011 ISBN 978-81-8487-123-4, pp. 129-135.
4. Winner of Award “Women Achievers in IT”, Interop Mumbai 2014 (05/09/2014).

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