**Dr. Shubhangi D. Sapkal**

**Asst. Professor**

MCA Department, Government College of Engineering, Aurangabad

**Specialization**

Machine Learning, Artificial Neural Network, Information Security

**Qualification Details**

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| --- | --- | --- | --- | --- | --- |
| Examination | Name of the Board/University | Year of Passing | Percentage of marks obtained | Division/Class/Grade | Subjects |
| Ph.D | Dr. Babasaheb Ambedkar Marathwada University, Aurangabad | March-18 | NA | NA | Cryptosystems of Multimodal Biometric System for Template Security |
| M.E. | Dr. Babasaheb Ambedkar Marathwada University, Aurangabad | June-2005 | 66.2 | First | Computer Science and Engineering |
| B.E. | Dr. Babasaheb Ambedkar Marathwada University, Aurangabad | May-1997 | 60.4 | First | Computer Science and Engineering |

**Academic Experience**

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| --- | --- | --- | --- | --- |
| Designation | Institute | Joining Date | Leaving Date | Nature of Post |
| Asst. Professor | Goernment College of Engineering, Aurangabad | 14/02/2000 | NA | Permanent |

**Published Papers in Journals/Conferences**

|  |  |  |
| --- | --- | --- |
| **Sr. No.** | **Title** | **Journal Name** |
| 1 |  Image Classification using Neural Network | ICSCI 2007 |
| 2 |  Analysis of Facial Image Classification using Discrete Wavelet Transform | ICSCI 2007 |
| 3 | Analysis of Classification by Supervised and Unsupervised Learning | ICCIMA’07 |
| 4 | Object Recognition using Correlation Technique | CSPA Malaysia 2008 |
| 5 | Classification of Facial Images using FFNN | ICACT 2008 |
| 6 | Analysis of classification methods of face images using PCA and Fisher-based algorithms | ICACT 2008 |
| 7 | Face Recognition with Fourier Descriptors and Fisher Discriminant Analysis | Biometrics Technologies and Applications 2008 |
| 8 | Face recognition using nearest neighbor method | ICSCI 2008 |
| 9 | Experimental Analysis of Classification of Facial Images  | IEEE International Advance Computing Conference 2009 |
| 10 | Analysis of Retina Recognition by Correlation and SVD | International Conference on Advances in Computer Vision and Information Technology 2009 |
| 11 | Study of high resolution fingerprint recognition using pores and ridges | ICAC |
| 12 | Face Recognition Using FD and FFNN | International Advance Computing Conference 2009 |
| 13 | Image enhancement and feature extractionfor fingerprint images: A review | NCSP 2009 |
| 14 | Analysis of Retina Recognition by Correlation and Covariance Matrix | International Journal of Software Engineering and Computing, International Science Press 2010 |
| 15 | A Face identification System Using Histogram Method | i-COST 2011 |
| 16 | Face Recognition using Maximum Confidence Hidden Markov Model | ICCIA 2011 |
| 17 | Object detection system using connected component analysis  | ICCIA 2011 |
| 18 | Stegano-CryptoSystem for enhancing Biometric-Feature Security with RSA | IPCSIT 2011 |
| 19 | Multiple object detection from real-time video sequence | Int. conf. on advanced computing, communication and networks 2011 |
| 20 | 3D wavelet based method for digital video watermarking | iCOST 2011 |
| 21 | Iris recognition-A biometric | Int. conf. on advanced computing, communication and networks 2011 |
| 22 | Color Image Segmentation Based on SRG and watershed algorithm | International conference on Advanced Computing, Communication and Networks 2011 |
| 23 | Comparative study of face recognition techniques: A review | International journal of computer applications 2012 |
| 24 | Template level concatenation of iris and fingerprint in multimodal biometrics identification systems | IJECSCSE 2012 |
| 25 | Data Level Fusion for Multi Biometric System using Face and Finger | International Journal of Advanced Research in Computer Science and Electronics Engineering 2012 |
| 26 | Audit service in data integrity in cloud | ”, International Journal of Advanced Research in Computer Science and Software Engineering 2014 |
| 27 | STEP-2 User Authentication for Cloud Computing (Impact Factor: 1.89) | IJEIT 2013 |
| 28 | 3D Face recognition techniques – A Review | International Conf. on Current trends and challenges in management, engineering, computer applications and technology 2013 |
| 29 | Extraction of dual tree complex wavelet feature for Iris recognition (Impact Factor: 1.770) | ”, International Journal of Advanced Research in Computer and Communication Engineering 2013 |
| 30 | Color Content Based Video Retrieval | IJCA 2013 |
| 31 | Scale Invariant Feature Transform Based Multimodal Biometric System with Face and Finger: A Review (SCI indexing and Impact Factor 0.342) | International Journal of Computer Science and Information Security 2013 |
| 32 | A review on fixed-rank representation for supervised learning using neural network | IJCSIT 2013 |
| 33 | Template Protection for Fingerprint Recognition System using Fuzzy Vault (ISSN: 2277-3754) (Impact Factor 2.915) | International Journal of Engineering and Innovative Technology |
| 34 | Interaction with Computers through Hand Gesture Recognition | International Conf. on Electrical, Electronics and Computer Engineering 2013 |
| 35 | COMPARISON OF MAHALANOBIS AND MANHATTAN DISTANCE MEASURES IN PCA BASED FACE RECOGNITION (Journal Impact Factor (2014): 8.5328 (Calculated by GISI)) | International Journal of Computer Engineering and Technology |
| 36 | Fixed-Rank Representation for Image Classification Using ANN and KNN (e-ISSN: 2278-0661, p-ISSN: 2278-8727) | IOSR Journal of Computer Engineering 2015 |
| 37 | Biometric fingerprint combination to improve anonymity protection | IOSR Journal of computer Engineering 2015 |
| 38 | A review on robust multimodal biometric recognition using joint sparse representation | IJIRAE 2015 |
| 39 | Biometric Cryptosystem for Finger Print Verification (Best Paper Award) | International Conference on Cognitive Knowledge Engineering 2016 |
| 40 | Biometric Template Protection with Fuzzy Vault and Fuzzy Commitment (SCI indexing) | International Conference on Information and Communication Technology for Competitive Strategies 2016 |
| 41 | Privacy Preserving Public Auditing and Data Integrity for Secure Cloud Storage Using Third Party Auditor (ISSN : 2454-1311) | International Journal of Advanced Engineering, Management and Science 2016 |
| 42 | An Enhanced Multi-layered Cryptosystem Based Secure and Authorized De-Duplication Model in Cloud Storage System (ISSN: 2454-1311) | International Journal of Advanced Engineering, Management and Science 2016 |
| 43 | CAAS: Trading consistency for availability | IJSRD 2016 |
| 44 | Face Verification using Scale Invariant Feature Transform with Template Security (SCI indexing) | Fuzz-IEEE 2017, Italy |
| 45 | Biometric Cryptosystem for Finger print Verification | Proceedings of 2nd ICKE2016, ISBN: 978-93-86751-04-1, Aurangabad, India, Jan. 2018 |
| 46 | Classifying facial expression using Support Vector Machine based on bidirectional local binary pattern histogram feature descriptor | ICICCS2018 |
| 47 | Effective Key Distribution Scheme using Paillier Cryptosystem in Wireless Sensor Networks | International Journal of Innovative Technology and Exploring Engineering 2019 |
| 48 | Identifying Human Face under video surveillance using Machine Learning Technique (Impact factor- 5.47) | IJSDR 2019  |
| **49** | **Finger Knuckle Print Based Biometric Identification of A Person Using LBP And Bernoulli Classifier** (Impact factor – 5.47) | IJSDR 2019 |
| **50** | A HYBRID APPROACH FOR DEEP LEARNING BASED FINGER VEIN BIOMETRICS TEMPLATE SECURITY | INTERNATIONAL JOURNAL OF ADVANCE SCIENTIFIC RESEARCH AND ENGINEERING TRENDS, April 2020 |
| **51** | Estimation of soil attributes using spectroscopy | CSI Journal of Computing, Vol. 3, No. 2, April2020 – June 2020 |
| **51** | Template Security of Multimodal Biometric System with Face and Fingerprint Images using Fuzzy Vault Method | CSI Journal of Computing | Vol. No. 3, No. 3 | July 2020 - September 2020 |

**FDP/Training Attended**

1. Red Hat user Administration, System Administration & Securing Network services, Govt. College of Engineering, Aurangabad, Period 31/01/2007 to 07/02/2007
2. Short Term Training Program on Data Warehousing & IBM Infosphere, Govt. College of Engineering, Aurangabad, Period 17/06/2009 to 24/06/2009
3. Genetic Algorithm and Neuro Fuzzy Applications in Engineering, GANEUFAE-2010, Govt. College of Engineering, Aurangabad, Period 29/11/2010 to 10/12/2010
4. UGC Sponsored Refresher Course in Computer Science & Information Technology, Dr.Babasaheb Ambedkar Marathwada University, Aurangabad, Period 08/03/2011 to 28/03/2011
5. Engineering Optimization & Its Applications, Govt. College of Engineering, Aurangabad. Period 25/06/2012 to 29/06/2012
6. Network Security, Govt. College of Engineering, Aurangabad, Period 07/10/2013 to 11/10/2013
7. STP : Refresher Course, Yashada, Pune, Period 26/10/2015 to 30/10/2015
8. Pedagogy to Synergogy, Govt. College of Engineering, Aurangabad, Period 07/12/15 to 11/12/15
9. Technology-Driven Innovation and Entrepreneurship, Govt. College of Engineering, Aurangabad, 08/02/17 to 12/02/17
10. Perception and Modeling of Three-Dimensional Scenes, under MHRD Scheme, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, 04/12/17 to 10/12/17
11. Machine Learning: The Journey of Transforming Technology, 03/07/18 to 07/07/18
12. Python Programming for Image Processing, Govt. College of Engineering, Aurangabad, 19/09/18 to 23/09/18
13. Foundation Program in ICT for Education, online FDP conducted by IITB, 13/09/18 to 18/10/18
14. Pedagogy for Online and Blender Teaching-Learning Process, online FDP conducted by IITB, 30/10/18 to 13/12/18
15. Outcome based Education with Assessment and Evaluation, Govt. College of Engineering, Aurangabad, 21/01/19 to 25/01/19
16. “Digital Transformation in Teaching Learning Process”, NPTEL, 06/04/2020 to 22/04/2020
17. “Machine Learning and Deep Learning Applications in Engineering and Science”, Govt. College of Engineering, Karad, 16/05/2020 to 20/05/2020
18. “Next generation software tools and trends for industrial solutions: current practices”, GEC Aurangabad, 13/06/2020 to 17/06/2020
19.

**Workshops Organized**

1. Organized 20 days training program on Computer Hardware Maintenance Program under TEQIP- Services to community and economy, 12/07/06 to 31/07/06
2. Organized Yoga-Pranayam Shibir for Ladies, under TEQIP- Services to community and economy, 11/07/06 to 21/07/06
3. 3 days Workshop for students on HCI 2018

**Webinars Attended**

1. One day national webinar on “ Data sciences and Applications”, GECA and GECk, 23-05-2020
2. Webinar on "Moodle: How To Use", Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, 09 May 2020
3. Webinar on "Role of Scopus Ananlytics in your research work flow", 22-04-2020
4. Webinar on "Deep learning using MATLAB" , 20-04-2020
5. “Outcome based education”, 20/06/2020

**Webinars Conducted**

1. “Artificial Neural Network and it’s Applications”, PES Engineering College, Aurangabad, 04-05-2020
2. “Artificial Neural Network and it’s Applications”, Smt. Indira Gandhi Institute of Engineering, Mumbai, 05-05-2020
3. Delivered two lectures as a resource person to the participants of “Online Refresher Course in Emerging issues in information Communication Technology (ID)” at Dr. BAMU, Aurangabad.
4. Expert lecture on “Introduction to ANN and deep learning”, at LNCTE, Bhopal, 21st September 2020.
5. Conducted webinar in FDP on “Research directions in security and computational intelligence” at Vivekanand education society’s institute of technology, Mumbai, 7th August 2020.

**Other Activities**

* Departmental Controller of Examination
* Member of Central Library Committee
* Working as DGMC committee member for M.C.A dept
* Guided approx. 30 students for M.E. Dissertations
* Guided students for MCA Dissertations
* Member of III cell
* Reviewer for different journals
* Organizing committee member of “International Web Conference on Impact of COVID-19 on Education System”, Organized by Dr. BAMU Aurangabad, 30/05/2020
* Attended International web conference on
	+ “International Web Conference on Impact of COVID-19 on Education System”, Organized by Dr. BAMU Aurangabad, 30/05/2020
	+ “International Web Conference on Impact of COVID-19 on Library Resource Sharing”, MIT, Aurangabad, 12-13 June 2020.
* Reviewed papers for CSI Journal of Computing, IJCSE, ICIDC 2020
* Editorial board member of CSI Journal of Computing

**Member of Professional Bodies**

Member of Institution of Engineers (India)

Member of Institution of Electronics and Telecommunication Engineers (IETE)

Executive committee member of IETE