

‘Curriculum Vitae’

Name **Dr. Karbhari Vishwanath Kale,**
M.Sc., MCA (Engg & Tech), Ph.D., FIETE, IEEE Senior Member
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Present Status **Professor of Computer Science and IT,**
 Department of Computer Science and Information Technology,
 Dr. B. A. M. University, Aurangabad.

Address (Residence) **‘Atharva’,** Plot.no. 22, Shri Moreshwar Society, Soot Girni road, Garkheda
 Parisar, Aurangabad (MS) - 431005. INDIA, Tel.: (0240)-2442199

Date and Place of Birth **August 02, 1962,**
 At: Salukheda, Ta: Khultabad, Dist.: Aurangabad (MS)-431101.

Category Open

Nationality Indian

Marital Status Married

Academic Qualifications **M. Sc Physics (Electronics)(1987), B. Ed. (1989),**
MCA (Engg. And Tech)(1995) and Ph. D. (Superionics-1997)

Teaching and Research Experience **30 Years**

Position held (in chronological order)

Position Held	Organization	Period	Nature of Work
Director, *B. C. U. D.	Dr. B. A. M. University A'bad	31 st July 2014 to 11 July 2016	College and University Development as per Maharashtra University Act
Acting Vice Chancellor	Dr. B. A. M. University A'bad	8 th Sep. to 14 Sep. 2015	Administrative Responsibilities
Acting Registrar	Dr. B. A. M. University A'bad	20-Sep.-2014 06-Dec-2014 24- Jan.-2015 to 21- Feb.-2015 25-11-2015 to 27-11- 2015	University Administrative Responsibilities
Coordinator	School of Computational and Physical Sciences, Dr. B. A. M. University, A'bad	April 2011 – till Date	School system for credit based and cafeteria approach.
Professor & Head	Dept. of Computer Science and Information Technology Dr. BAMU, A'bad.	August 2009 – August 2014	Teaching, Research (PG Level) and Academic Administration
Head of Department	Dept. of Computer Science and Information Technology Dr. BAMU, A'bad.	August 2004 to August 2006	Teaching, Research (PG Level) and Academic Administration
Head of Department	Dept. of Electronics and Computer Science, Dr. BAMU, A'bad.	June 2000 to August 2002	Teaching, Research (PG Level) and Academic Administration
Professor of Computer Science	Dept. of Computer Science and Information Technology Dr. BAMU, A' bad.	10 December 2005 To Till Date.	Teaching and Research (PG Level)
Reader of Computer Science	Dept. of Computer Science and Information Technology Dr. BAMU, A' bad.	December 1997 To December 2005	Teaching and Research (PG Level)
Lecturer	Deogiri College, Aurangabad	August 1987 to December 1997	Teaching and Research (Jr. UG and PG Level)

*B.C.U.D. : Board of College and University Development

Other Relevant Positions

Position Held	Organization	Period	Nature of Work
University Coordinator	Indian Institute of Remote Sensing, ISRO Dehradun, Government of India	10 -8 -2015 to Till Date	University Coordinator Distance Learning Program Organized by Indian Institute of Remote Sensing, ISRO Dehradun
University Coordinator	Maharashtra State Government	2015- 11 July 2016	Research and Innovation Proposal under RUSA
Special Invitee	Chamber of Marathwada Industries and Agriculture(CMIA)	2015-16	CMIA Executive Committee
President, ICT Section	103 Indian Science Congress, Kolkata	2015-16	Governing Body
Programme Coordinator, UGC DRS-II(SAP-II)	UGC, New Delhi No.F.4-15/2015/DRS-II(SAP-II)	April 2015 to Till Date	Research and Development
Programme Coordinator	Project Implementation Group, DST FIST-2013	June 2013- Till Date	Development of Remote Sensing and Geospatial Technology Laboratory
Coordinator DST	Department of Science and Technology, Ministry of Science and Technology, Govt. of India, New Delhi PAMC (HSRS) Meeting 2011	16 th – 17 th December 2011	Research Project Evaluation and Report
Vice President	International Accreditation Organization(IAO), Maharashtra, India	September 2011 till Date	Conduct Chapter Visits, Hold Seminars and Recommend Institutions on behalf of IAO, Improve Educational Standards
Director	University National Informatics Centre (UNIC)	June 2011 to September 2013	Overall administration, monitoring Internet and Intranet related Services to the University stakeholders
Course Coordinator of UGC Refresher Course	UGC Academic Staff College, Dr. B.A.M University A'bad	8-28 March. 2011	Refresher Course in Computer Science and Information Technologies for University and College teachers.
Programme Coordinator, UGC-SAP(II) DRS Phase-I	UGC, New Delhi F.F. 3-42/2009 SAP(II)	April 2009 to March 2014	Research and Development
Course Coordinator of UGC 77th Orientation course	UGC Academic Staff College, Dr. B. A. M University A'bad	3 rd to 30 th March, 2009	For University and College Lecturer.
Course Coordinator of UGC 1st Refresher Course	UGC Academic Staff College, Dr. B.A.M University A'bad	5-24 Dec. 2005	1 st Refresher Course in Computer Science and Information Technologies for University and College teachers.
In-charge and Contact Person of UGC Infonet	Dr. B. A. M. University, Dept. CSIT, A'bad	April 2003 to 07-Sept-2009.	To establish the Internet Connectivity under the University and colleges.
Coordinator 54th Orientation Course (Info. Tech.)	UGC Academic Staff College, Dr. B.A.M. University A'bad	1-28, Nov.2003	For University and College Lecturer.
Course Coordinator of UGC 50th Orientation course	UGC Academic Staff College, Dr. B.A.M. University A'bad	May 3, 2002 to May 28, 2002	For University and College Lecturer.
Course Coordinator of UGC 44th Orientation Course	UGC Academic Staff College, Dr. B.A.M University A'bad	April-May 2001	For University and College Lecturer.
Coordinator	Dr. B. A. M., University,	June 2001 to	To develop the Computational & research facility

UGC, Computer Centre	Aurangabad	August 2002	for University people.
Chairman	IETE Centre Aurangabad	2008-2010 ---2012	Academic and Administrative works set by National body of IETE New Delhi
Secretary	IETE Sub Centre Aurangabad	2005-2006	Management and monitoring funds and activities of IETE sub-center Aurangabad.

Awards/ Rewards/Honors

- Nomination as a Member on The Board of Information Technology, Dr. B.A. M. U. Aurangabad by the Hon'ble Vice Chancellor as per the Maharashtra University Act 2016 under Section 49(3)(f).
- Shortlisted & interviewed for the post of Secretary to UGC, New Delhi, India, 6 Feb. 2018
- Shortlisted & Interviewed for the post of Vice- Chancellor, Savitribai Phule Pune University, 2017
- Shortlisted & interviewed for the post of Vice- Chancellor, Yashwantrao Chavan Maharashtra Open University (YCMOU), 2017
- Research Professor Award for the year 2016-17, Dr. Babasaheb Ambedkar Marathwada University, 04 Sept.2017
- Top 100 Professionals 2017, International Biographical Centre, Cambridge, England, 6 Jan. 2017
- Invited by the Chancellor and Governor of Maharashtra for interaction for the post of Vice-Chancellor, North Maharashtra University, Jalgaon, 2016
- Finalist Awarded, "ICT Researcher of the Year", International Award given by ACS(Australian Computer Society) South East Asian Regional Computer Confederation (SEARCC), in conjunction with the ACS Digital Disruptor Awards at ACS Reimagination Thought Leaders Summit in Sydney, Australia on December 1, 2016
- Shortlisted & interviewed for the post of Vice- Chancellor [**Best Five**], Sant Gadge Baba University, Amravati, 2016
- Shortlisted & interviewed for the post of Vice- Chancellor, Shivjai University Kolhapur, Mumbai University, Mumbai, 2015
- Shortlisted & interviewed for the post of Secretary to UGC, New Delhi, India, March 2014
- Awarded Amazing Idea Award during IEEE Science and Information (SAI) Conference 2013, London, UK, October 2013
- Awarded Excellent Paper Award during IACSIT International Conference on Computer and Electrical Engineering (ICCEE-2013), Paris, France, October 2013
- Elevated to Senior Member, IACSIT, June 2013.
- Awarded Plaque by Who's who in the world, **USA**, Nov 2012.
- Elevation to the grade of IEEE Senior Member, October 2011.
- Nominations in Top 100 Scientist 2009, International Biographical Centre, Cambridge, England.
- Nominated for the Who's who in the world, 2007
- Awarded "VIJAY SHREE" Award with certificate of excellence for meritorious services, outstanding performance and remarkable role by India International friendship society, New Delhi, India, 24 June 2005
- Awarded Excellent Paper Presentation, National Conference & Workshop on Virtual Instruments, Embedded Systems & Robotics, 1-5 March, 2004, Gawalior, India

Visits to Abroad

- **USA:** Invited Talk in EMN Environment and Materials Meeting (Orlando), Visited School of Mine(Denver), October 2 to 6, 2017
- **Australia-** The South East Asian Regional Computer Confederation (SEARCC) has announced the finalists for the inaugural SEARCC International Awards, to be held in conjunction with the ACS Digital Disruptor Awards at ACS Reimagination Thought Leaders Summit in Sydney on December 1, 2016.
- **Spain** - MOU with University of Oviedo, Santiago de Compostela University, 9-16 Feb, 2015
- **UK (London)** - IEEE Science and Information (SAI) Conference 2013 organized by Science and Information Organization, New York, USA during October 7-9, 2013.
- **France (Paris)** - IACSIT International Conference on Computer and Electrical Engineering (ICCEE-2013) organized by International Association of Computer Science and Information Technology (IACSIT), Singapore during October 12-13, 2013.
- **USA (California)** - GSPx 2005 The Pervasive Signal Processing Conference organized by Global Technologies Inc. MA, USA during Oct 24-27, 2005.

- **Canada (Vancouver)** - International Symposium on Signal Processing and Information Technology organized by IEEE, University of British Columbia, and University of Victoria, Canada during 27-30 August 2006

Research Projects Completed (1.45 Crore)

- A Minor Research Project entitled “Studies on various aspects of Image processing through object oriented Technology.” August 2001. (Total Grants Rs 20,000/- funded by UGC).
- A Major Research Project entitled “Development of Intelligent Biometrics Techniques in Finger Print Recognition”, funded by UGC. [Rs. 6.34 Lakhs] with one project fellow.
- A Major Research Project entitled “Development of Multimodal Fingerprint System through Multiple Impression and Matching Techniques” funded by UGC [Rs. 8.96 Lakhs] with one project fellow.
- A UGC One time Research Grant has been received for “Robust Multimodal Biometric System Development” funded by UGC [Rs. 7.00 Lakhs], year 2012.
- A Special Assistance Programme (SAP) entitled “Biometric: Multimodal System Development” funded by UGC [82.05/- Lakhs (Rs 52.25 Lakhs + 4.80 Lakhs + 5 Lakhs+ 20/- Lakhs)] with one project fellow, 2014(DRS Phase-I)
- UGC Infonet Project Implementation-[26.43 Lakhs]
- A UGC One time Research Grant has been received for “Multimodal Biometric System Development” funded by UGC [Rs. 7.00 Lakhs], year 2014.
- Rashtriya Uchchar Shiksha Abhiyan (RUSA), RR-Interval Measurement for Heart Rate Variability (HRV) Analysis, [15 Lakhs] Year 2016

Research Project Under Development (23.08 Crore)

- University Infrastructural Grants for various Department Under Rashtriya Uchchar Shiksha Abhiyan (RUSA), 2016 [20 Crore]
- DST Major Research Project entitled, “Design and Development of Hyperspectral Data Analysis Tools and Algorithms for End Member Identification”, 2016, [32.96/- Lakhs]
- Media Lab Asia, Ministry of Communications and Information Technology, Govt. of India, “Vishvesvaraya PhD Scheme for Electronics and IT”, 2015, [55.06 Lakhs]
- A Special Assistance Programme (SAP) DRS-II Phase-II entitled “Biometric: Multimodal System Development” funded by UGC [93.83/- Lakhs (Rs 77.75 Lakhs + 16.08Lakhs)] with one project fellow, 2015
- DST FIST-2013 Programme for Development of Remote Sensing and Geospatial Technology Laboratory, funded by DST [Rs. 120 Lakhs], year 2013.

Recognition by an Academic Organization

Sr. No	As a Life Member / Fellow	Name of the body / Organization	Year
1.	Life member of IPA(AUR / LM / 11144)	Indian Physics Association.	1997-98
2.	Life member of CSI(LM / 70009) Graded to Senior Member (SM/ I0070009)	Computer Society of India, Mumbai Chapter.	2001
3.	Fellow of I.E.T.E. (F / IETE / 141717)	I.E.T.E., New Delhi	2001
4.	Life Member of IUPRAI(L/10)	Indian Unit of International Association for Pattern Recognition.	2003
5.	Member IEEE-(Membership No: 80362082)	The Institute of Electrical and Electronics Engineers Inc.	Dec-2005
6.	Members IEEE – CSI, Signal Processing , Communication	The Institute of Electrical and Electronics Engineers Inc.	Dec-2005
7.	Members IEEE – Green ICT Community	The Institute of Electrical and Electronics Engineers Inc.	May 2013
8.	Members IEEE – Cloud Computing Community	The Institute of Electrical and Electronics Engineers Inc.	May 2013

9.	Member, IEEE Internet of Things Community	The Institute of Electrical and Electronics Engineers Inc.	May 2013
10.	Member, IEEE Life Sciences Community	The Institute of Electrical and Electronics Engineers Inc.	June 2013
11.	Member	Special Interest Group in Artificial Intelligence (SIGAI), C-DAC Mumbai	2005
12.	IEEE- GEO Science and Remote Sensing Society	The Institute of Electrical and Electronics Engineers Inc.	Jan-2010
13.	Life Member of ISCA (Membership No:L16200)	The Indian Science Congress Association, Kolkata.	Aug-2010
14.	Senior Member (80346739)	IACSIT	June 2013
15.	Life Member of IAENG (131109)	International Association of Engineers	Sep- 2013
16.	Technical Associate	Open Geospatial Consortium (OGC), USA	2011
17.	Fellow Member (F66-14-01)	Scientific Society of Advanced Research and Social Change (SSARSC)	2014
18.	Life Member (L-4249)	Indian Society of Remote Sensing (ISRS)	March 2014
19.	Member, ISPRS(60864)	International Society for Photogrammetry and Remote Sensing	Jan. 2017

Area of Interest

Image Processing, Pattern Recognition, Computer Vision, Software Engineering, Artificial Intelligence, Neural Network, Robotics, Decision Support System and Intelligence system, Biometrics, Bio-informatics, Remote Sensing and GIS, Sensor Networks and Sensor Web Enablement (SWE), and Embedded Systems, Big Data, Internet of Thing(IoT), etc.

Research/ Dissertation Supervision

	Awarded	Working
Ph. D.	29+ (5 Submitted)	08
M . Phil.	08	06
M. Tech.	15	09

Invitee Talk/Resource Person/Guest Lecture

- 1 Resource Person, 118th Orientation Program(2nd February to 3rd March 2018), UGC-Human Resource Development Center, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad on 14-02-2018
- 2 Invited for talk in Energy Materials Nanotechnology (EMN) Environment and Materials Meeting, Department of Physics, University of North Texas, October 2 to 6, 2017 at the Orlando ,USA
- 3 Resource Person, Faculty Development Program, 12-16 June 2017, Dr. G. Y. Pathrikar College of Computer Science and Information Technology, MGM, Aurangabad, (12 June 2017 11:30am)
- 4 Invitee Speaker, Remote Sensing and GIS in Service of India's Development organized by IEEE Geoscience and Remote Sensing Society, on 8-9 June 2017 at IIT Bombay, India (Topic-"Geospatial Technology Prospectus and Challenges in Indian Scenario")
- 5 Two Lectures, Resource Person, "Refresher Course-ICT Application" (1-03-2017 to 13-03-2017), UGC-Human Resource Development Center, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad on 13-03-2017
- 6 Faculty Development Programme on "Optimization in Machine Learning" during 27th Feb to 3rd March 2017, Government College of Engineering, Aurangabad (Topic-"Deep Learning", 2nd March 2017)
- 7 Resource Person, Two Days National Level Seminar On "Quality Sustenance And Quality Enhancement by IQAC at Institution Level", Dr. G. Y. Pathrikar College of CS and IT, Aurangabad 31-Jan-2017 to 1-Feb-2017 (Topic-Credit Based System For Enhancing The Quality Of Higher Education)
- 8 Workshop on Internet of Things (IoT) from 11-16 July 2016, Marathwada Institute of Technology(MIT), Aurangabad (16-July-2016)
- 9 Talk, Two days National Seminar dated 15-16 July 2016 on "Recent Trends in Business Practices", SBES

College of Arts & Commerce, Aurangabad

- 10 Resource Person, National Conference on "Science and Technology for Indigenous Development in India" organized by the Indian Science Congress, Bangalore, 5-7 October,2015
- 11 Invitee Talk, ICT Section including Computer Science, 102nd, Indian Science Congress, University of Mumbai, Mumbai January 3-7,2015 (5-01-2015)
- 12 National Level Faculty Development program on "Soft Computing" ANN & Fuzzy Application in Engineering,30-11-2015 to 05-12-2015, Department of Electronics & Telecommunication Engineering, Deogiri Institute of Engineering and Management Studies, Aurangabad(Topic-Fuzzy If then Date-05-12-2015)
- 13 Talk, Refresher Course in Sociology, Social Work and Geography, UGC-Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad on August 5th, 2014
- 14 Invitee Talk, Workshop on "Introduction to Remote Sensing" during July 7-11,2014.(Topic-Introduction To Remote Sensing with Special Emphasis on Hyperspectral Remote Sensing), Jawaharlal Nehru Engineering College, Aurangabad
- 15 Chief Guest, National Conference on Recent Advances in Information Technology,15th -16th , February 2014, Solapur University, Solapur (MS) India
- 16 Key Note Speaker, National Conference On "Recent Trends In Knowledge Management" (NCRTKM-2014) IT Division, School of Engineering, Cochin University, Cochin (CUSAT) and CSI Division III 7-8 February, 2014
- 17 Key Note Speaker and Guest of Honor, at National Conference on Recent Advances in Electronics and Computer Science (NCRAECS-2014), Science College, Nagpur, 23-24 January, 2014
- 18 Two Lectures, Resource Person, "100th Orientation Course Programme", UGC-Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad on 21-Dec-2013
- 19 Invited Talk, in 2nd National Conference on Recent Trends in Computer Science & Applications and Computational Mathematics 2013, RTCSACM at Pune, Indira College of Commerce and Science, Pune (ICCS), Pune, 20-21 December 2013 (Topic-Remote Sensing Applications and Hyper Spectral Imaging, 20-12-2013)
- 20 Two, Invitee Talk, Special Summer School Programme, UGC- Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, 19-June-2013
- 21 Keynote address in one day workshop entitled "Image Processing Techniques Using MATLAB 2012" on 24-Feb-2013, Dr. Rafiq Zakaria Campus, Maulana Azad College of Arts, Science & Commerce, Aurangabad
- 22 Invitee Talk, National Workshop on Hyperspectral Remote Sensing and Applications, Maharaja Sayajirao University of Baroda, Vadodara, Gujrat, 17-18 Jan 2013
- 23 Guidance to UPSC & MPSC student at Indian Administrative Service Pre- Training Center Aurangabad, 26-12,2012
- 24 Two, Talk in Refresher Course Computational Science, Sant Gadge Baba Amravati University, Amravati 13-10-2012
- 25 Invitee Talk, Special Summer School Programme, UGC- Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, 10-August-2012
- 26 Invited Talk in 99th Indian Science Congress Association (ISCA-2012), KIIT University, Bhubaneswar, Odisha, 3-7 January 2012 (06-Jan-2012)
- 27 Invited Talk in 98th Indian Science Congress Association (ISCA-2011), S.R. M. University, Chennai, 3-7 January 2011
- 28 Invited Talk in International Conference On Microwaves Antenna, Propagation & Remote Sensing ICMARS-2010, International Centre For Radio Science (ICRS), IEEE- GRSS, (URSI) IEEE MTTs, India, IEEE AES/COM/LEO, India IEEE ED-India, ATMS-India, CEERI Pilani, IEEE GRSS, USA. 14 – 17, December 2010, Jodhpur (Topic- Spatial Data Mining: Prospective and Challenges)
- 29 Invitee Talk in National Conference on Challenges and Opportunities in Information Technology and Bioinformatics(NCCOITBT-09), Swami Vivekanand Mahavidyalaya, Udgir , 27-28 February 2009
- 30 Invitee Talk in Two Days' National Workshop in KBN College of Engineering, Gulbarga, 15-16, May 2006(Topic-PR & IP: A Multidisciplinary Research Perspective)
- 31 Deliver of Central Lecture to Cadets its Annual Trg Camp SW Girls from 03-15 August, 2913 in Milind College of Arts Aurangabad(Topic-Utilization of Computer in Day-today life, 12-Aug-2003)
- 32 Invitee Talk, National Conference, Department of Computer Science, Saurashtra University, Rajkot, Gujrat, 11-13 July 2003(12-July-2003)

Key Achievements

- Newly started and framed the structure of P.G. course in Information Technology in the University, Science June 2000.
- Newly framed and Structured the B.C.S., B.C.A. (Science), and B.Sc. IT, at degree level AND M.Sc. IT and revised M.Sc./ M. Tech Courses at P.G. University level June 2001.
- University's Computerization and Web Site Development.
- Establish Internet Access Center and V-SAT (512 Kbps) Under UGC Infonet project in Dr. B. A. Marathwada University, Aurangabad & UNIC with 1GBPS Internet Facility.
- Designed and successfully implemented Credit Based System and CBCS System.
- Established State-of-Art Research Laboratories: Multimodal Biometrics Research Laboratory under UGC SAP (II) DRS Phase-I & Phase-II and Geospatial Technology Laboratory under DST-FIST 2013
- Mobilized Research & Development grants from various financing agencies of rupees more than 24 corers at th individual department level and more than 100 corer and university level
- Various fellowships like Geospatial, Visheveshwaraya, BSR, Research Fellowship, RUSA, get sanctioned in the department for Research students
- NAAC Acceser and Member Coordinator
- Design and developed the **Multimodal Biometrics System** for human authentication and identification by creating the huge database of around 38300 images which is **unique in the world**.
- Design and developed the technique for **spectral analysis** of remotely sensed data for agriculture, minerals and smart city, VIS applications.

Particulars of Conferences/workshop/Seminars Organized

- Technical Committee member, International Conference on Information Technology (ICIT2017), 2017, Nanyang Technological University, Singapore, December 27-29,2017
- International Advisory Committee, 1st International Conference on Intelligent Systems and Information Management (ICISIM-17), October 05-06, 2017, IEEE Conference ID : 39830, Organized By, Department of Computer Science & Engineering and Information Technology, MGM's Jawaharlal Nehru Engineering College, Aurangabad- 431003, MS, India
- National Advisory Committee, National Conference on Advances in Computing (NCAC-2017), 24-25 MARCH, 2017, Organized By School of Computer Sciences, North Maharashtra University, Jalgaon
- International Advisory Committee, First International Conference on Recent Advances in Computer Science, Engineering and Technology (ICRACSET 2017), February 2-4, 2017, MGM Dr. G. Y. Pathrikar College of Computer Science and Information Technology, Aurangabad, India
- Patron, 2nd International Conference on Cognitive Knowledge Engineering (ICKE-2016) December 21-23, 2016, Organized by Department of Computer Science and Information Technology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad-431004, India
- Advisory Committee, National Symposium on Recent Trends in Hyper Spectral Remote Sensing(RECTEHSRS-2016), 20-21, October 2016, Department of Earth Sciences, Annamalai University, Annamalai Nagar, Tamil Nadu, India
- Advisory Committee, International Conference on Recent Trends in Image Processing & Pattern Recognition (RTIP2R), Dec, 16-17, 2016, Bidar, Karnataka, INDIA
- Advisory Committee, International Conference on Emerging Trends in Engineering Technology and Management Science,10-11, June 2016, Deogiri Institute of Engineering and Management Studies, Aurangabad, Maharashtra, India
- National Advisory Committee, National Conference on Emerging Trends in Information Technology, ETIT 2016, Department of Computer Science Veer Narmad South Gujarat University Udhna Magdalla Road, Surat 4-5 Apr, 2016
- Coordinator, Geospatial Technologies for Urban Planning, Off-Campus Outreach Certificate Programme, Indian Institute of Remote Sensing, Indian Space Research Organisation, Department of Space, Government of India during February 11 to March 15, 2016
- Organizing Committee Member, Two Days Zonal Workshop on Arduino & its Applications Institution of Electronics and Telecommunication Engineers(IETE), Aurangabad, 1-2 March 2016

- Member, 1st IETE Student Forum West Zone Congress -2016(ISFWC), Institute of Electronics and Telecommunication Engineers(IETE),By CSMSS, Chh. Shahu College of Engineering Aurangabad, 2nd March 2016
- Advisory Board, National Conference on Advances in Computing and Management, NCACM, Dr. D. Y. Patil Pratishthan's, Padmashree, Dr. D. Y. Patil Institute of Master of Computer Applications, Sector No.29, Behind Akurdi Railway Station, Pradhikaran, Pune, 29 -30 January 2016
- Patron, International Conference on “Innovative Trends in Entrepreneurship in New Millennium”, Organised by Department of Commerce & Management Science, Dr Babasaheb Ambedkar Marathwada University, Aurangabad (M.S), India & University of Santiago de Compostela, Spain, 23rd, 24th & 25th January 2015
- Technical Committee, IACSIT 7th International Conference on Computer and Electrical Engineering (ICCEE 2014),8th -9th, October 2014,Geneva, Switzerland
- Publicity Co-chair, International Conference on Soft Computing & Machine Intelligence South Asia Institute of Science and Engineering (SAISE),26th -27th, September 2014,New Delhi, India
- Technical Committee, The Science and Information Conference 2014,27th -29th, August 2014,London, UK
- Organizing Committee, Maharashtra and Goa Regional Young IT Professional Award, The Computer Society of India, Aurangabad Chapter, March 2014
- Advisory Committee, National Conference on Recent Advances in Information Technology,15th -16th, February 2014,Solapur (MS) India
- Advisory Committee, National Conference On Recent Advances In Electronics And Computer Science (NCRAECS - 2014), Department of Electronics and Computer Science, Shri Shivaji Education Society Amravati's, SCIENCE COLLEGE, Congress Nagar, Nagpur 440 012, January 23-24, 2014
- Convener and Chairman, National Workshop on Microwave Remote Sensing, 22nd -24th January 2014,Aurangabad (MS) India
- Advisory Committee, National Conference on Emerging Trends in Computer Science and Computer Applications NCETCSA 2013, Computer Science Department, Deccan Education Society's Fergusson College, Pune, 7-8 December 2013
- Advisory Committee, International Conference On Advanced Information Communication Technology In Engineering (AICTE- 2K13), 22nd -23rd, November 2013,Technological Institute of Textile & Sciences Bhiwani, Haryana, INDIA
- Technical Committee, IACSIT 6th International Conference on Computer and Electrical Engineering (ICCEE 2013),12th -13th, October 2013,Paris, France
- Chairman, One Day workshop on “Integrating Geospatial Technology with e-Governance of an Indian District”, DST-Srinivasa Ramanujan Geospatial Chair, Department of Computer Science and IT, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, 19 January 2013
- Advisory Committee, National Conference on Water Management For Sustainable Development, Department of Water & Land Management, Dr. Babasaheb Ambedkar Marathwada University, Sub-Campus, Osmanabad, 30-31 Jan 2012
- Patron, Workshop on Automatic Speech Recognition,13th -15th, October 2011,Aurangabad (MS) India
- Program Chair, Workshop on “Open Source Quantum GIS”,3rd, September 2011,Aurangabad (MS) India
- Patron and Session Chair, International Conference on Knowledge Engineering (ICKE-2011),29th -31st, January 2011,Aurangabad (MS) India
- Patron, National Workshop on Data Warehousing and Data Mining (NWDWDM-2010), 25th -27th February 2010, Aurangabad (MS) India
- Advisory Committee/Invited Speakers, International Conference on Emerging Trends in Computer Science, Communication and Information Technology(CSCIT2010), Organized by the Department of Computer Science and Information Technology, Yeshwant Mahavidyalaya,09-11 January, 2010, Nanded, Maharashtra, India
- Convener, General Chair, and Session Chair, Advances in Computer Vision and Information Technology, (ACVIT-09),16th -19th, December 2009,Aurangabad (MS) India
- Organizing Committee and Session Chair, International Conference on Microwave and Optoelectronics (ICMO 2007),17th -20th, December 2007,Aurangabad (MS) India
- Convener, General Chair, and Session Chair, Advances in Computer Vision and Information Technology, (ACVIT-07),28th - 30th, November 2007,Aurangabad (MS) India
- Coordinator, More Crop Per Drop, National Science Day 2007, 24-28 February 2007
- Convener, Workshop on “Embedded Systems and Its Applications”,7th, March 2006, Aurangabad (MS) India
- Convener, Workshop on “E-Education”,16th, September 2004,Aurangabad (MS) India

- Convener, General Chair and Session Chair, National Conference on “Computer Communication and Security”, 4th-5th, January 2004, Aurangabad (MS) India
- Convener, Workshop on “Parallel Computing and Grid Computing”, 21st -22nd June 2002, Aurangabad (MS) India

Member of Board of Studies in the Universities

- Dr. BAM, University, Aurangabad, (Computer Science and IT)
- SRT, University, Nanded. (Computer Science)
- Sant Gadge Baba Amravati University, Amravati. (Computer Science)
- YCM Open University, Nashik (Computer Science)
- Gulbarga University, Gulbarga (Computer Science)
- Veer Narmad South Gujarat University, Surat (Information Technology)

Member of Faculty of Science in the University

- Sant Gadge Baba Amravati University, Amravati

Research Guide Recognition in Computer Science

- Dr. B.A.M., University, Aurangabad
- Pune University, Pune
- Amravati University, Amravati

Total Number of Publications: (348)

- Peer-reviewed International / National Journals : 173
- Research Papers presented in International Conferences: 102
- Research Papers presented in National Conferences: 73
- Books: 06
- Book Chapter: 06
- h- index : 16 ; i10 index : 32 (Google Scholar) and h- index : 6 (Scopus)
- Total number of citations : 1045 ([Google Scholar](#)) and 153(Scopus)

Patent: (06)

- Indian Patent File - Application No. 201621035123
- Indian Patent File - Application No. 201721010262
- Indian Patent File - Application No. 201721043493
- Indian Patent File - Application No. 201721044623
- Indian Patent File - Application No. 201721047446
- Indian Patent File - Application No. 201721047448

Books (06)

1. "Computer Communication and Security", Renuka Prakashan, Aurangabad
2. “Advances in Computer vision and Information Technology”, IK International Publishing House Pvt. Ltd., New Delhi-2007. ISBN-10: 8189866745, ISBN-13: 978-8189866747 [6 Citations]
3. “Advances in Computer vision and Information Technology and Applications”, IK International Publishing House Pvt. Ltd., New Delhi-2009. ISBN-10: 9380026951, ISBN-13: 978-9380026954
4. “Understanding MATLAB”, Shroff Pub & Dist. Pvt. Ltd, Mumbai, April 10, 2013, ISBN-10: 9350237199, ISBN-13: 978-9350237199
5. “Face Recognition Using Principal Component Analysis”, LAP Lambert Academic Publishing (16 January 2015), ISBN-10: 3659673641, ISBN-13: 978-3659673641
6. “Iris Image Feature Extraction using Multiwavelet Approach”, LAP, Lambert Publishing , Germany (April 2017), ISBN-13:978-3-659-74230-9, ISBN-10:3659742309, EAN:9783659742309

Book Chapter (06)

1. N Akhter, H Gite, G Rabbani, K Kale, “Heart Rate Variability for Biometric Authentication Using Time-Domain Features”, in Security in Computing and Communications, Vol. 536, pp. 168–175, Abawajy, J.H., Mukherjea, S., Thampi, S.M., Ruiz-Martínez, A. (Eds.) Springer CCIS 7899, ISBN 978-3-319-22914-0, Springer, Berlin, Heidelberg, Germany, 2015.

2. N Akhter, S Dabhade, N Bansod, K Kale, "Feature Selection for Heart Rate Variability Based Biometric Recognition using Genetic Algorithm", in *Intelligent Systems Technologies and Applications*, Vol 384, pp. 91-101, Berretti, Stefano, Thampi, Sabu M., Srivastava, Praveen Ranjan (Eds.), Springer Advances in Intelligent Systems and Computing 11156, ISBN 978-3-319-23035-1, Springer, Berlin, Heidelberg, Germany, 2015.
3. Nazneen Akhter, Sumegh Tharewal, Vijay Kale, Ashish Bhalerao, K. V. Kale, "Heart-Based Biometrics and Possible Use of Heart Rate Variability in Biometric Recognition Systems", *Advances in Intelligent Systems and Computing*, Volume 1, 15-29, Chaki, R., Cortesi, A., Saeed, K., Chaki, N. (Eds.), Springer Advanced Computing and Systems for Security, 2016. DOI 10.1007/978-81-322-2650-5_2, Print ISBN 978-81-322-2648-2, Online ISBN 978-81-322-2650-5
4. S. Shaikh, H. Gite, R. R. Manza, K. V Kale, and N. Akhter, "Segmentation of Thermal Images Using Thresholding-Based Methods for Detection of Malignant Tumours," in *Intelligent Systems Technologies and Applications 2016*, M. J. Corchado Rodriguez, S. Mitra, M. S. Thampi, and E.-S. El-Alfy, Eds. Cham: Springer International Publishing, 2016, pp. 131–146. DOI 10.1007/978-3-319-47952-1_11, Print ISBN 978-3-319-47951-4, Online ISBN 978-3-319-47952-1
5. Dhupal R.K., Vibhute A.D., Nagne A.D., Kale K.V., Mehrotra S.C. (2017) [Performance Analysis of Spectral Features Based on Narrowband Vegetation Indices for Cotton and Maize Crops by EO-1 Hyperion Dataset](#). In: Behera H., Mohapatra D. (eds) *Computational Intelligence in Data Mining*. Advances in Intelligent Systems and Computing, pp 581-590, vol 556. Springer, Singapore, DOI: 10.1007/978-981-10-3874-7_55, ISBN 978-981-10-3874-7
6. Nagne A.D., Dhupal R., Vibhute A., Kale K.V., Mehrotra S.C. (2017) [Comparative Analysis of Different Land Use–Land Cover Classifiers on Remote Sensing LISS-III Sensors Dataset](#). In: Behera H., Mohapatra D. (eds) *Computational Intelligence in Data Mining*. Advances in Intelligent Systems and Computing, pp 523-532, vol 556. Springer, Singapore, DOI: 10.1007/978-981-10-3874-7_49, ISBN 978-981-10-3874-7

Reviewer of International Journals

- Reviewer, IEEE Image and Signal Processing
- Reviewer, IACSIT Conferences, May 2013.
- Reviewer, IEEE, Science and Information(SAI) Conference 2014
- Reviewer, Springer Open, Human-centric Computing and Information Sciences,2017
- Reviewer, Image Analysis & Stereology journal of the International Society for Stereology & Image Analysis, Feb, 2017
- Science and Engineering Research Board (SERB), Technical Evaluator of Research Proposal, 2016
- Reviewer, Journal of Intelligent Systems, 2017

Editor in Chief

"International Journal on Computer Science and Information Technology" ISSN: 098474-8385

Member of Editorial Board

1. "Veer Narmad South Gujarat University (VNSGU) Journal of Science and Technology" ISSN: 0975-5446.
2. "ICT Academy of Tamil Nadu (ICTACT) Journal on Soft Computing" An International Publication of ICT Academy of Tamil Nadu ISSN: 0976-6561.
3. International Journal of Computer Science and Systems, DIT School of Engineering Greater Noida, ISSN: 2249-8222.
4. Everyman's Science, Indian Science Congress Associations, Kolkata, ISSN 0531-495 X

MOU'S

1. National Institute of Electronics & Information Technology(Nielit), Aurangabad, India
2. Endress+Hauser (Endress and Hauser), Germany
3. Indian Institute of Remote Sensing (IIRS), Dehradun, India

Other Additional Information of relevance

- Panel Member on Engineer's Day-2017, PES, Polytechnic, Aurangabad 15 September 2017
- Member, Selection Committee for Best Award and Jeewansadhana Gourav Puraskar, Swami Ramanand Teerth Marathwada University, Nanded, 04 September, 2017
- **State Coordinator, Research and Innovation Proposal under RUSA, 2015**
- **Convener, Avishkar-2015, Gov. of Maharashtra, India**
- Chairman, Meeting of UNIC Governing Committee
- Conducted 5 workshops on Choice Based Credit System for awareness among Principal Teachers, Members of Board of Studies, Deans and Faculties and decided to implement CBCS system as per UGC and Government norms.
- Faculty of Science BOS in Computer Science (including CA & CS (Comp. S/w)), Sant Gadge Baba Amravati University, Amravati

- Subject Expert, Walk in Interview of Group A and Group B posts under University Fund
- Member, Committee, National Informatics Centre of Information Technology, Dr. B. A. M. University, Aurangabad
- Member, TEQIP-II, Think Tank Group Discussion on Increasing Business productivity through Australian Technology and R&D Partnership, Mumbai, 22-Feb-2016
- NAAC Pear Team Member, Baba Zorawar Singh Fateh Singh Khalsa Girls College, Morinda, Ropar, Punjab 11-13 February 2016
- Chairman, Selection Committee, Affiliation Committees for the Academic Year 2016-17, 20-01-2016
- Chief Guest, Two days interactive workshop of students, Farmers and Scientists on Sericulture Technologies, 29-01-2016
- Convener, Sub Committee to oversee and study the Organization Avishkar-2015, (State Governor Office)
- Chairman, Age of Retirement Deciding Committee, Meeting, 30-12-2015
- Member, NAAC Peer Team, Yogeshwari Mahavidyalaya, Ambajogai, 21-12-2015
- Chief Guest, Valedictory Session of XXV Indian Colloquium on Micropaleontology and Stratigraphy, Institute of Science, Aurangabad, 20-12-2015
- Chief Guest, Disaster Management Camp(Mock Drill), 17-12-2015
- President, Inaugural Function, Changing Perspectives in Indian Classical Performances (Dance-Drama-Music), 11 - 12-2015
- Chairman, Selection Committee Scholarship (Govindbhai Shorf, R. N. Bagla, Endress + Houser), 09-12-2015
- Chairman, Rules and Regulation Constitution Committee for All Research Center, 09-12-2015
- Supervisor, Avishkar-2015, Savitribai Phule Pune University, 5-12-2015
- Session Speaker, “Soft Computing” (ANN & Fuzzy Application in Engineering), National Level Faculty Development Program, Devgiri Institute of Engineering and Management Science, 30 Nov – 5 Dec, 2015
- Member, Governing Council, Dr. G. Y. Pathrikar CCSIT, MGM, Aurangabad, 27-11-2015
- President, Valedictory Function, National Workshop on Koha, D-Spcae & Joomla(Oss), 26-11-2015
- Guest of Honor, Harmony With Nature in context of Bioresources and Environmental Health(HARMONY-2015), Department of Zoology, 23-25 November 2015
- Chairman, Meeting of UNIC governing committee, 17-11-2015
- BOM, Government College of Engineering, Aurangabad, Meeting, 24, October, 2015, Videocon House, D. N. Road, Mumbai.
- Chairman, Workshop, Seminar, etc. Budget distribution, 8 Oct, 2015
- Member, Selection Committee for Foundation Day Award 2015-16, Savitribai Phule Pune University, 07 October 2015
- NAAC Pear Team Visit, Smt. Dankunwar Mahila Mahavidyalaya, Jalna, 05, October 2015
- Chairman, distribute the funds to Workshops, Seminar, etc. in University, 30 September 2015.
- **Member, Perspective Development Plan Committee, Higher and Technical Education, Maharashtra Government, 25-26 September 2015.**
- Expert, Vice Chancellor Nominee, Selection Committee for the post of Assistant Professor in the subject of Computer Science, 04 September 2015
- IQAC Debate, “Ranking of Institutions and Accreditations”, 04 September 2015
- Chief Guest, State Level Science Exhibition, Balbhim Arts, Science & Commerce College, Beed, 1st September 2015
- Chairman, Approval of Research Grants, Conference, Workshop, Seminar for the financial year 2015-16
- NAAC Pear Team Visit, Government College of Education, Ambajogai, 28, August, 2015
- Chairman, Formation of New Rules and Regulation for M. Phil., Ph. D according to Supreme Court Judgment-2015, 26 August 2015
- NAAC Pear Team Visit, Maulana Azad College of Arts, Science & Commerce, Aurangabad, 24 August 2015
- NAAC Pear Team Visit, Shri Asaramji Bhandwaladar Art’s, Comm. & Science College, Deogaon, Tq-Kannad, Aurangabad, 24 August 2015
- NAAC Pear Team Visit, Mahila Kala Mahavidyalaya, Beed, 10 August 2015
- Consultant, Meeting for formulation of the New Education Policy (NEP), Vigyan Bhavan, Maulana Azad Road, New Delhi, 11-August-2015
- NAAC Pear Team Visit, Shrikrishna Mahavidyalaya, Gunjoti, Omerga, Osmanabad, 6 August 2015
- NAAC Pear Team Visit, R. G. Bagdia Arts, S. B. Lakhotia Commerce & R. Bezonji Science College, Jalna, 6 August 2015
- Member, All India University Union, Inter University Competition 2015-16, 3-August-2015

- Chief Guest, Inauguration, orientation program for “Staff Professional Development in Biosciences”, Deogiri College, 2nd –August-2015
- Chairman, Meeting Regarding approval of Publication Grants for the Financial Year 2015-16, 31 July 2015
- Peer Team Visit of NAAC, Swami Vivekanand Senior College Manth, 27th July 2015
- Chairman, Meeting, International Conference Grant Approval & Check the Applications, 10 July 2015
- **Special Invitee, Chamber of Marathwada Industries and Agriculture(CMIA), Aurangabad, Executive Committee Meeting, 8th July,2015.**
- Meeting, Maharashtra, Higher Education Future Planning, Scheme, Administration & Implementation, 06 July 2015
- Meeting, E- Suvidha Project, Central Facility Center, 1 July 2015
- **Invitee Speaker, Dr. (Sow) Indirabai Bhaskarrao Pathak Mahila Kala Mahavidyalaya, Aurangabad, 13th June 2015**
- Chairman, Meeting of UNIC Governing Committee,25 May 2015
- Member, Advisory Committee, Central Facility for Advanced Research and Training(CFART), 08 May 2015
- Member, Advisory Committee, National Board of Accreditation (NBA), Pune Institute of Computer Technology, Pune, 12 Dec, 2014
- Meeting, General President with the Sectional Presidents, Indian Science Congress Association, Kolkata, 06 May 2015
- Chairman, meeting of UNIC governing body, 18 April 2015
- Member, Partition of University Sub Center to Separate University proposal, 16 April 2015
- Member, Conversion of Sub Center to new university Proposal, 27 March 2015
- Chairman & Member of Excellent College(Rural/Urban) Award Committee, 25 March 2015
- Coordinator, Visit to Central Universities, 25 March 2015
- Member, Executive Committee Meeting, NIELIT, Aurangabad, 24 March 2015
- Guest of Honor, Benefits of Professional Sociological Education Review, 13 March 2015
- Chairman, Inauguration National Visual Art Conference, 13 March 2015
- Chairman, Expert Committee, design the Syllabus of B. Sc. Hotel Operations & Catering Services, 10 March 2015
- **Chairman, Conversion of State University to Central University Draft Meeting, 04 March 2015**
- **Scrutiny Member, RUSA, 02 March 2015**
- Advisory Committee Member for NAAC, Govt. College of Education, IASE, Aurangabad, 26th Feb. 2015
- Chief Guest, Seminar, Vivekanand Arts, Sardar Dalipsingh Commerce & Science College, Aurangabad, 24 February 2015
- **Member, Meeting of Choice Based Credit System with Hon’ble Higher and Technical Education Minister, Maharashtra, Mumbai 23rd Feb 2015**
- **Member, Joint Board Voice Chancellor Meeting, Choice Based System, Sahyadri Athithigrah Malbar Hill, Mumbai, 23 February 2015**
- Member, IQAC, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad 20th Feb 2015
- Chief Guest, Inauguration of Annual Social Gathering, Milind College of Science, Aurangabad,20th Feb 2015
- Inaugurator & Chief Guest of Valedictory Function, “National Level Workshop on Design & Development of Institutional Repository Using D Space”, 5-7th February 2015
- Chief Guest, Technical Exhibition 2015, MIT College, Aurangabad, 02 Feb 2015
- Member , Center of Potential Excellence, Score Committee Meeting, 2 February 2015
- Chairman, Establishment of 3+2 Year’s UG/PG Course for Hotel Management/ Hospitality and Catering Technology from the Academic Year 2015-16, 30 January 2015
- **President, Scrutiny Committee, proposals for Central Governments 12th Five Year Plan on National Higher Education Scheme, 29 January 2015**
- Chairman, Meeting of UNIC Governing Committee, 29 January 2015
- Chief Guest , Valedictory Function, National Conference, Dept. of Mgmt. Science, 25 January 2015
- Chief Guest, Rural Camp, MSW, 24 January 2015
- Chief Guest, National Conference on Computer Application, MIT College, 23- 24 January 2015
- Chief Guest, Pre Ph. D. Course Work, Hindi, 21 January 2015
- Chief Guest, National Conference, English, 19-22 January 2015
- Guest of Honor, International Conference, Public Administration, 16 January 2015
- Chief Guest, Workshop, Pandit Jawaharlal Nehru College, 6 January 2015

- Member, Development of Additional Functionalities in Digital University Framework, 26 December , 2014
- Member, Management Council Meeting, Marine and coastal biological diversity Center, December 22, 2014
- Member, meeting to discuss the Budget Proposals for the financial year 2015-16, December 19, 2014
- Chairman, Monitoring Committee of University Network & Information Center, December 18, 2014
- Chief Guest, Sixth State Level “ Science & First Palvi Ragostav”, Drawing Exhibition, Devgiri College, Aurangabad, December 18, 2014
- **Member, Sub- Academic Advisory Committee of NIELIT, December 11, 2014**
- **Attended meeting with Hon’ble Chief Minister of Maharashtra, ‘MUNIJAN’, November, 2014**
- Member, Central Facility Center, Virtual Classroom(E-Classroom) 26 November 2014
- Chairman, Approval of Publication Grants for the Financial Year 2014-15, 26 November 2014
- Starter, Student Parliament Opening Ceremony, Shikshan Maharshi Dnyandeo Mohekar Mahavidyalay, Kalamb, 25 November 2014
- Chairman, Krida Mahotsav 2014, All Aurangabad District Administrative Meeting, 13 November 2014
- Attended, ‘Luncheon Meeting’, Institute of Management, Aurangabad, 12 November 2014
- Meeting, 12th Plan, Utilization of Received Grants & Future Planning, 7 November 2014
- Secretary, BUTR, Aurangabad, 11th September 2014
- Member, Ideal Teacher Selection Committee, Dr. B. A. M. U. Aurangabad, 1 September 2014
- Chief Guest, Valedictory Function, Inter College Competition, MGM, Aurangabad, 31 August 2014
- Secretary, Design University Scholar Fellowship Rules, 28th August 2014
- Chief Guest, Welcome function, Department of Botany, 27 August 2014
- Secretary, Syllabus Design & Academic Planning 2015-2016, Dr. B.A.M.U Aurangabad, 26 August 2014
- Chief Guest , welcome ceremony of newly admitted UG & PG students, Dr. G. Y. Pathrikar College of CS & IT, 26th August 2014
- Chairman, Retirement age Increment Committee, 21 August 2014
- Chairman, PET 2014 Meeting, 14 August 2014
- Secretary, Management Council Meeting, Dr. B.A.M.U Aurangabad, 12 August 2014
- Educational Consultant, NIELIT, 25th July 2014
- **Secretary, University Fellowship Scheme, 24 July 2014**
- Member, Main organizing committee, (ASHWAMEDH Sport Competition) Sport Festival Competition-2014(26 Nov. – Dec 2014), 3rd July 2014
- Course Co-ordinator, for Information and Communication Technology(ICT), Centre of Vocational Education and Training (CVET) year 2013-14
- Inaugurated and Delivered lecture in State Level three days workshop on NET/SET/GATE Guidance in the Subject of Computer Science, 16th-18th June 2014 at MGM’s Dr. G. Y. Pathrikar College of Computer Science and Information Technology, Aurangabad, Maharashtra.
- Technical IT Expert, Lokmat’s Table Conference on Cyber Security and Social Sites, 10th June, 2014.
- Inaugurated CREATION-2014, at BGPS’s Hi-Tech Institute of Technology, Aurangabad, Department of Electronics and Telecommunication.
- Coordinator, 12th Outreach Satellite Based Distance Learning Programme on “**Microwave (SAR) Remote Sensing for Natural Resources**”, Sponsored by National Natural Resources Management System (NNRMS) Organized by Indian Institute of Remote Sensing, Indian Space Research Organization, Department of Space, Govt. of India, Dehradun, during February 03 – March 29, 2014.
- **Coordinator, PET-2014, Dr. B. A. M. University, Aurangabad.**
- Coordinator, 11th Outreach Satellite Based Distance Learning Programme on “**Basics of RS, GIS & GNSS**”, Sponsored by National Natural Resources Management System (NNRMS) Organized by Indian Institute of Remote Sensing, Indian Space Research Organization, Department of Space, Govt. of India, Dehradun, from 5th August, 2013 to 4th November, 2013.
- Chief Guest and Keynote Speaker , Workshop on Image Processing using MATLAB 2012, by Ajanta Prakashan and Maulana Azad College Aurangabad, 24 February 2013
- 16 February 2013, University-Industry Innovation Summit 2013, NMU, BAMU, CIMA, Rotary Club
- 16th January 2013, Vice-Chancellor’s Subject Expert, Selection Committee, Post of Lecturer, Principal/Director, and Librarian, Rastramata Jijau Charitable Sanstha’s, Chhatrapati Sambhaji College of Computer Science, N-7 Cidco, Aurangabad
- 2nd February 2013, Vice-Chancellor Nominee, University Expert of Governing Body, B. G. P. S. Trust’s, College of

Hi-Tech Institute of Technology, Bajaj Nagar Valuj, Aurangabad.

- 7th February 2013, Affiliation committee meeting, Khultabad.
- 5th February 2013, Meeting at Marathwada Development Board, Aurangabad
- 2nd February 2013, Member, Vice-Chancellor Nominee, Ad-hoc board in Vocational Degree Courses
- 20th – 25th January 2013, HYPERSPECTRA-2013, Workshop on Hyper-spectral Remote Sensing research at IIT Mumbai
- 17th -18th January 2013, Attended Panel Discussion, National Science Plan for HSRS Research, at Vadodara.
- 29 December 2012, Evaluation of Thesis, Visvesaraya Technological University, Belgaum.
- 29 December 2012, Interview of Professor Selection Committee Member, Vice-Chancellors Subject Expert Jawaharlal Nehru Engineering College, Aurangabad.
- 28 December 2012, Attended BOS Meeting, Sant Gadge Baba Amravati University, Amravati
- Member, Special Subject Subcommittee for Information and Technology Marathwada Development Board, Aurangabad, 12 Dec 2012
- 15 December 2012, Examiner for PhD Viva Voce Examination of Mr. K. N. Ramamohan Babu, at Dr. M. G. R. Educational and Research Institute University, Maduravoyal, Chennai
- **10 December 2012, Attended the meeting with Anita Rajan, Office of the advisor to prime minister National Council on Skill Development, Govt. of India and Collector, Aurangabad**
- Examiner, PhD Viva-Voce Examination at KS Rangasamy College of Technology, Tiruchengode, Tamilnadu on 26 November 2012.
- Member, Senate Committee Meeting, October 2012
- Member, QAC's (Quality Assurance Committee) internal peer team for Department of Computer Science, Shivaji University, Kolhapur, 7 September 2012.
- Coordinator, Mobile Science Exhibition, Nehru Science Centre, National Council of Science Museums, Ministry of Culture, Govt. Of India on 22-23 August 2012 at Dr. B. A. M. University, Aurangabad
- Visit to Government Institute of Forensic Science, Aurangabad for affiliation of B. Sc. and M. Sc. (Forensic Science) 10/7/2012
- Act as a Judge (jury member) of State Level Inter University Research Festival AVISHKAR-2012.13-15 Jan 2012
- Nominated for Indian Computer Emergency Response Team(CERT-In), Department of Electronics and Information Technology, Ministry of Communications & Information Technology, Government of India, 2012
- **Member, Panel Discussion, Maharashtra-Alberta(Canada) Roundtable, Shastri Indo-Canadian Institute, Mumbai, 17 November 2011**
- **Broadcasted Lecture on “Mobile Evolution and Communication” 5/5/2011 on Akashwani Radio Center, Aurangabad**
- Nomination As A Senate Member of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad Under Section 25 (2) (U) Of The Maharashtra University Act 1994 By The Hon'ble Vice- Chancellor Of This University.16-August-2011
- Examiner, Maharashtra State Eligibility Test, SET Meeting-1-3 March 2011, University of Pune
- Act as an Observer for SET Examination, Department of Technology, Shivaji University, Kolhapur, 2011
- Member, Maharashtra State Eligibility Test, SET Meeting-2010, University of Pune
- Attended First IEEE GRSS India Meet at Jodhpur, Rajasthan. December 2010
- Act as a jury member of State Level Inter University Research Festival AVISHKAR-2009
- Chairman, Setter, PET-2012, Dr. B. A. M. University, Aurangabad
- Member, Committee, Project Genesis and Industry Academia Partnership 2012-13
- Member of the summer and Winter Holiday's Time-Table Creation Committee for year 2012-2013
- Teacher Incharge, Avishkar 2007, Inter University Festival, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, 15-17 Feb. 2007
- Secretary Incharge, Committee for Monitoring of UGC-Infonet Center,16 November 2006
- Incharge, UGC Infonet Project, 12 October 2006
- Act as an Observer for SET Examination, Yashwant Mahavidyalaya, Nanded,2006
- Nominated for Ministry of Youth Affairs and Sports Organization, 18 Oct 2005
- Completed the Pilot refresher course in IT at Goa in 10-30 Sept-2003
- Expert, CFS Scheme for inspection of Authorised Training Centers & Examinations, CEDTI, Aurangabad,1999
- Member, Ad-hoc Board in Information Technology, V. N. S. G. University, Surat, Gujarat
- President, Affiliation Committee, Maqsd Bahu-uddeshiy Sevabhavi Sanstha, Dr. Abdul Kalam Computer Science

College, Neknoor, Dist. Beed

- President, Affiliation Committee, Keshavraoji Sevabhavi Sanstha, Apex IT College, Majalgaon, Dist Beed
- President, Govt. Institute of Forensic Science, Aurangabad Affiliation.
- Member, Jury, Competition for Science Communicator, Aurangabad Chapter, Indian Science Congress Association, Kolkata.
- Central Seminar on “Maharashtra Meta University and New Education”, MKCL
- Member of UGC Committee, to evaluate the performance and academic attainments for the purpose of extension of autonomous status of Government College of Engineering
- Member, Committee, appointment of Computer Supervisor, YCMOU
- Chairman, M. Tech. Computer Science and Engineering, Dr. B. A. M. University Aurangabad
- Member, Committee on 12th Five year plan of University
- Attended EMC² “Cloud Meets Big Data” Exhibition at Mumbai
- Working As A President Of The Committee For Computerization System For Result Declaration And Mark Memo Generation For All Departments Of University And of Sub-Centre
- Nomination as a Member of Purchase Committee of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad under section 75(3) (U) (ii) of the Maharashtra University Act 1994 by the Hon’ble Vice- Chancellor of this University
- Elevation to Senior Member of Institute of Electrical and Electronics Engineers (IEEE) NJ USA
- Chairman, Ad-hoc Board in B.Sc. Networking & Multimedia
- **Member, Technical Committee Forensic and Computer Science, Higher & Technical Education Govt. of Maharashtra**
- Chairman, M.Sc. Examination Paper Setting Committee
- University Representative Member, Local Governing Body, Savitribai Phule Women’s Engineering College, Aurangabad
- Member, Self Support Courses Committee under University Fund
- Vice-Chancellor Nominee Expert for the selection of Director of Marathwada Shikshan Prasarak Mandal, Aurangabad
- Visit to Tuljapur for affiliation of Late Manikrao (Dada) Patil Computer Science College, Tuljapur
- Visit to Dr. G. Y. Pathrikar College of Computer Science, MGM Campus, Aurangabad for affiliation of courses
- Vice-Chancellor Nominee Subject Expert for the post of Professor at G. S. Mandal’s MIT College, Aurangabad
- Vice-Chancellor Nominee Subject Expert for the post of Programmers at Dr. B. A. M. University, Aurangabad
- Act as a coordinator to conduct various Refresher and Orientation courses in the field of computer science
- Act as Session Chair, in the National and International Conferences
- Delivered Lectures in Orientation and Refresher Course in the various Universities as a Resource person
- In the Capacity of Chairman, worked on the various LIC Committees for Affiliation of the College level Courses time to time
- Act as a Member, on BOS (Board of Studies) in the subject of Computer Science at SRT Marathwada University, Nanded, YCMOU Nashik, Gulbarga University, Gulbarga and Amravati University on Ad-hoc BOS of, Dr. B. A. M University, A ‘bad
- Worked and working as a Chairman of Board of Examiners for various graduate and postgraduate level courses in the university
- Act as Vice-chancellor Subject Expert Nominee for the selection of lectures/readers in subject domain time to time
- Act as a key note speaker and chair of technical session in national level conferences and workshops
- Give the talk on various burning issues of computer science on AIR Akashwani Aurangabad
- Acts as Technical Member at various Government committees like Setu-Suvidha Aurangabad, Land and water management in Aurangabad Collector Jurisdiction.
- Completed the Advance Networking and V-SAT training Program at New Delhi organized by UGC and ERNET New Delhi.
- Former Hon. Secretary IETE Aurangabad Sub-Center
- Former Chairman, IETE Aurangabad Center
- Appointed as a Chairman, Ad-hoc Board in B.Sc. Networking & Multimedia
- Appointed as a University Representative on the Governing Body of MGM’s Jawaharlal Nehru Engineering College, Aurangabad
- Appointed as a University Representative on the Governing Body of BGPS’s Rajashri Shahu Institute of

Management, Aurangabad

- Working as a coordinator of School of Computational and Physical Sciences in Dr. B. A. M. University, Aurangabad for development of Model College with innovative vocational job oriented courses and credit based school system
- Act as Subject Examiner for RRC at SNDT Women's University, Mumbai.
- Act as external examiner for Research Recognition Committee (RRC) at Sant Gadge Baba Amravati University, Amravati.
- Act as Subject Expert for Research Recognition Committee (RRC) at Rashtrasant Tukadoji Maharaj Nagpur University
- Delivered an Expert talk at Sri Padmavathi Mahila University (Women's University) School of Engineering & Technology (SET), Tirupati, Andhara Pradesh
- Inaugurated IETE Student Forum (ISF) at MIT College of Engineering, Aurangabad.
- Member, Implementation of School System in University Departments(School of Computational Sciences)

Particulars of Seminars/Conferences/symposia/workshop participated/Attended

Sr.No.	Name of the Seminar/ Conference /Symposia Workshop, etc.	Name of the Sponsoring Agency	Place and Date
A: International Conference:			
1.	Energy Materials Nanotechnology (EMN) Environment and Materials Meeting & Conference (Invited Talk)	EMN Environment and Materials Meeting.	October 2 to 6, 2017, Orlando ,USA
2.	ISPRS TC VIII International Symposium on Operational Remote Sensing Applications: Opportunities, Progress and Challenges (Session Chair)	NRSC,DRDO, DST	09 – 12 December 2014, Hyderabad, India
3.	Member, Technical Committee, IACSIT 7 th International Conference on Computer and Electrical Engineering (ICCEE 2014)	International Association of Computer Science & Information Technology (IACSIT), Singapore	Geneva, Switzerland October 8-9, 2014.
4.	Member, Publicity Co-chair, ISCOMI 2014 at International Conference on Soft Computing & Machine Intelligence	South Asia Institute of Science and Engineering (SAISE)	26-27 September 2014 New Delhi
5.	Member, Technical Committee, The Science and Information Conference 2014	The Science and Information Organization, New York, USA Supported by Springer, IEEE	August 27-29, 2014 London, UK
6.	Member, Technical Committee, IACSIT 6 th International Conference on Computer and Electrical Engineering (ICCEE 2013) (Chaired one Session)	International Association of Computer Science & Information Technology (IACSIT), Singapore	12-13 October, 2013 Paris, France
7.	The Science and Information Conference 2013	The Science and Information Organization, New York, USA Supported by Springer, IEEE	7-9 October, 2013 London, UK
8.	International Conference on Recent Advances in Engineering and Technology (ICRAET 2012)	Association of Scholars and Professional	29 -30 April 2012
9.	International Conference on Current Trends and Challenges in Management, Engineering, Computer Application and Technology	Choice Institute of Management Studies & Research , Pune	23– 25 March, 2012
10.	International Conference On Microwaves Antenna, Propagation & Remote Sensing ICMARS–2010 delivered an Invitee Talk	INTERNATIONAL CENTRE FOR RADIO SCIENCE (ICRS), IEEE-GRSS, (URSI) IEEE MTTS, India, IEEE AES/COM/LEO, India IEEE ED-India, ATMS-India, CEERI Pilani, IEEE GRSS, USA.	14 – 17 December 2010
11.	International Symposium on Signal	IEEE, University of	27-30 Aug 2006,

	Processing and Information Technology, (Chaired one Technical Session)	British Columbia, and University of Victoria, Canada	Vancouver, Canada
12.	International Conference on Systemic, Cybernetics and Informatics (ICSCI-2006)	Pentagram Research Center, Hyderabad	4-8 Jan 2006, Hyderabad India
13.	GSPx 2005 The Pervasive Signal Processing Conference	Global Technologies Inc. MA, USA	24-27 Oct, 2005, Santa Clara Conventional Center, CA, USA
14.	“International Conference on Visual Computing,”	IFIP, CSI, NCST, Mumbai	23-26 February, 1999, GOA India.
15.	SAARC Conference on “ Extending the use of Multilingual and Multimedia Information Technology”	C-DAC, Pune.	1-4 September, 1998, Pune, India.
B: National Conference:			
16.	National Conference on “Science and Technology for Indigenous Development in India”, BIOBLOOMS- 2015 [Invited Speaker]	Organized by The Indian Science Congress Association Bangalore Chapter, Indian Society of Life Sciences, Departments of Life Science, College of Arts, Science and Commerce	5 - 7 October 2015
17.	National Conference on Applications of Remote Sensing & Geographical Information System In Geographical Research (Patron)	Department of Geography, Dr. BAMU	7-8 March 2015
18.	Invited Talk in 102 Indian Science Congress Association (ISCA-2015), University of Mumbai (Chaired One session, Jury Member)	Indian Science Congress, ISRO, DRDO, UGC, etc	3-7 Jan 2015
19.	Key Note Speaker National Conference On Recent Trends In Knowledge Management (NCRTKM-2014)	IT Division, School of Engineering, Cochin University, Cochin (CUSAT) and CSI Division III	7-8 February, 2014
20.	Key Note Speaker and Guest of Honor at National Conference on Recent Advances in Electronics and Computer Science (NCRAECS-2014)	Science College, Nagpur	23-24 January, 2014
21.	Invited Talk in 100 th Indian Science Congress Association (ISCA-2013), Calcutta University, Kolkata, (Chaired One session, Jury Member)	Indian Science Congress, ISRO, DRDO, UGC, etc	3-7 January 2013
22.	Invited Talk in 2 nd National Conference on Recent Trends in Computer Science & Applications and Computational Mathematics 2013 RTCSACM at Pune, India	ICCS, Pune	20-21 December 2013
23.	Invited Talk in 99 th Indian Science Congress Association (ISCA-2012), KIIT University, (Chaired One session, Jury Member)	Indian Science Congress, ISRO, DRDO, UGC, etc	3-7 January 2012
24.	Invited Talk in 98 th Indian Science Congress Association (ISCA-2011),	Indian Science Congress, ISRO, DRDO, UGC, etc	3-7 January 2011 Chennai, India

	(Chaired One session)		
25.	National Conference on Emerging Trends and Applications in Computer Science (NCETACS - 2010)	Department of Computer Science, St. Anthony's College, Shillong, Meghalaya - 793001	09-10 April 2010
26.	National Conference on Recent Trends in Computer Application(NCRTCA-2010)	Deptt. Of Management Science, Dr. B. A. M. University, Aurangabad.	17-18 February ,2010
27.	National Seminar on Recent Trands in Image Processing & Pattern Recognition	Karnataka Arts, Science and Commerce College, Bidar	15 -16 February 2010
28.	Challenges and Opportunities in Information Technology and Bioinformatics(NCCOITBT-09) (Invitee Talk)	Swami Vivekanand Mahavidyalaya, Udgir	27-28 February 2009
29.	National Conf. And workshop on Virtual Instruments, Embedded Systems and Robotics	Sensor Technology Pvt. Limited and Embedded University, Gwalior India	1-5 March, 2004, Gwalior India
30.	National Conference On Recent Trends In Information Communication Technology And Applications (Chaired Two session)	U.G.C. AND Loksevak Madukarrao Chaudhari Amrut Mahotsav Committee Jalgaon	10- 11 Oct 2002 NM, University, JALGAON
31.	The Role of E-commerce in Industries and Trade	UGC Sponsored and Devgiri College Aurangabad conducted	10-11 March, 2002
32.	Microwave Measurements and Techniques	CSIR, DST, ISRO and Dr. BAMU, A' bad.	2-3 March, 2001 A,bad
33.	XX Annual Conference of Indian Society for comparative animal Philosophy and symposium on Environment and Human Health	Dept. of Environmental Sci., Dr. BAMU,& IRDERH, Ahmednager	28 -30 January, 1999
34.	Intel Developers' conference'98	Intel Technology Centre, Bengalore	22 May 1998, Pune
C: International Workshop:			
35.	“International Workshop on Technological Development in Indian Languages	ISI, CVPR Unit Kolkata	22-24 Jan. 2003
36.	International Workshop on “Document Analysis, Speech and Natural Language Processing”	Indian Statistical Institutes, Kolkatta	23-24 December 1999, Calcutta, India
D: National Workshop/Seminar/ symposia:			
37.	Resource Person , Two Days national Level Seminar on Quality Sustenance and Quality Enhancement By IQAC at Institute Level	National Assessment and Accreditation Council (NAAC), Banglore & Dr. G. Y. Pathrikar College of Computer Science & Information Technology, Aurangabad	Internal Quality Assurance Cel(IQAC), MGM, Dr. G. Y. Pathrikar College of Computer Science & Information Technology, Aurangabad, 31 January to 1 February 2017
38.	Training-cum-Workshop on "Imaging Spectroscopy and Applications"	Department of Science & Technology, Government of India	ICAR-Indian Agricultural Research Institute, New Delhi during December 20-24,2016

39.	Key Note Speaker National Workshop on Research Methodology	MIT College, Aurangabad	13-14 March 2015
40.	Resource Person , Workshop on Examination Reforms	Association of Indian Universities(AIU) & Yashwantrao Chavan Maharashtra Open University, Nashik	22-24 June 2015
41.	Keynote Speaker, Workshop on Image Processing using MATLAB 2012	Ajanta Prakashan and Maulana Azad College, Aurangabad	24 February 2013
42.	Invitee Talk , National Workshop on Hyperspectral Remote Sensing and Applications	M.S. University,Badora	17-18 Jan 2013
43.	Invitee Talk: Workshop on Introduction to Remote Sensing	Jawaharlal Nehru Engineering College, Aurangabad	7-11 July 2014
44.	Perspective of Patients and Practitioners on Mental Healing Practices in Aurangabad(Resource Person)	Rular South Asian History Network, Aurangabad History Society	December 20-21, 2014, Khuldabad-Padegaon, Aurangabad
45.	IIRS USER INTERACTION MEET	Indian Institute of Remote Sensing, Indian Space Research Organisation, Dept. of Space, Govt. of India	February 20-21, 2014, Dehradun.
46.	Talk in Refresher Course Computational Science	Sant Gadge Baba Amravati University, Amravati	30-10-2012
47.	Workshop on National Vocational Education Qualification framework	AICTE and Government of India.	5 March 2012
48.	Workshop on The Maharashtra Public University Act 2011 Draft	S. B. E. S. College of Science, Aurangabad	14 February 2012
49.	Workshop on All India Survey of Higher Education (AISHE)	Library, Dr. B. A. M. University, AUrangbad.	13-14 November 2011
50.	Chief Guest of inauguration Ceremony of Student Council	Savitribai Phule Women's Engineering College, Aurangabad	15 Oct 2010
51.	National Workshop on Data Warehousing & Data Mining(NWDWDM-2010)	Deptt. Of CS & IT, Dr. B. A. M. University, Aurangabad.	25-27 February 2010
52.	Two Days National Workshop on Pattern Recognition & Image Processing, PR&IP: A Multidisciplinary Research Perspective (Invitee Speaker)	Khaja Banda Nawaz College of Engineering,Gulbarga	15-16 May 2006
53.	Workshop on Advanced Web-Based Computing	UGC, Delhi, and N M University, Jalgaon	9-10 February, 2002, Aurangabad
54.	The National Academy of Sciences, India, Sixty-Sixth Annual Session	National Academy of Science, India Allahabad	31 Oct. -2 Nov., 1996, Aurangabad
55.	National Workshop on High Temp. Superconductivity.	Dr. BAMU, A'bad	21-23 February, 1991, A'bad
E: State Workshop/Seminar/ symposia:			
56.	Chief Guest of Pinnacle'10 a State level IT event at Jalgaon.	G H Raison Institute of Information Technology, Jalgaon.	29 September, 2010
57.	Workshop on Ph. D. program	University of Pune, Pune, IBMR, and Hiduja College Mumbai	14-15 January 2005, Pune University, Pune
58.	Workshop on Parallel Computing:	C-DAC, Pune	3-6 June 2002

	Optimizing performance of Parallel program (PCOPP-2002)		
59.	e-commerce	IETE, CSI (Aurangabad)	1-3 February 2001, A'bad
60.	Higher Education in New Millennium Prospects and Problems	Dr. Babasaheb Ambedkar Marathwada University, Teachers' Association (BAMUTA Aurangabad)	27 May 2000, Aurangabad
61.	Workshop on Intellectual property rights-Patents Awareness	TIFAC, New Delhi	23 June 2000, Aurangabad
62.	IT Literacy: Challenges before Education system	NMU, Jalgaon & Govt. of Maharashtra	11 march,1999, NMU, Jalgaon
63.	XI Convocation of Indian Association Physics Teachers	IAPT and Dr. BAMU, A'bad	12 th -14 th December,1996,A,bad

Contribution: Dr. K V Kale

Academic Contribution

Contribution for the University and other Institutions

- Act as a RUSA coordinator for formatting the RUSA Proposals at State level and University Level R & D Projects
- Nomination as a Senate Member of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad under section 25(2) (U) of the Maharashtra University Act 1994 by the Hon'ble Vice-Chancellor of this University.
- Develop the course curriculum for PG and UG course in Information Technology and Computer Science (2002-01) in the Capacity of the Chairman of the Committee
- Act as a team manager and jury member of State Level Inter University Research Festival AVISHKAR-(2007-08 and 2009 respectively).
- Perform the role to provide the academic services to the SRT University Nanded (MS), YCMO University Nasik (MS), and Dr. B. A. M. University Aurangabad (MS) as a BOS Member and Faculty to SGB Amravati University Amravati (MS)
- Act as a technical member and expert on committees of various universities like Selection Committee, Affiliation Committee, Technical Committee
- Help to develop the University Computerization
- Given the keynote address, invited talks, seminars and technical lectures in various National-International Conferences, Refresher Course and Orientation Course
- In the capacity of Chief Guest inaugurated various technical symposium (Jalgaon , Aurangabad, Amravati)
- Work as an EC member, Hony. Secretary and Sub Centre Chairman of IETE Aurangabad and taken the sincere efforts to upgrade this sub Centre into the full fledge centre and presently working as a Chairman of the IETE Aurangabad Centre to provide the voluntary services for the society and Nation
- Presently working as a Chairman, for Ad-hoc Board in B.Sc. Networking & Multimedia, Chairman of Paper Setting Committee of M.Sc. Computer Science and act as an Observer and Member of SET Setting and evaluation Committee
- ***Research Contribution***

The research work performed during the last 14 years in the department in the field of Image Processing, Biometrics, Bio-Informatics, & Software Engineering found to be new and challenging. It has started with studying and analyzing the different aspects and prospective to solve the real world problems and gives

appropriate findings.

- **Medical Imaging:**

The basic objective of the medical imaging research work was to provide the optimum solution in terms of quality medical images, for perfect diagnosis. The research work carried out by collecting the medical image databases from the local medical institutes and processed these images using the Image Processing techniques with optimum H/W & S/W cost in comparison to existing medical imaging system available in market.

While handling medical image enhancement short comings found in the process of early detection of the breast cancer, in screening mammogram can be reduced by newly developed image enhancement algorithm using heterogeneous approach (i.e. Morphology, FFT etc.) which found helpful in computerized analysis and detection of cancers missed by radiologists. Similar approach has been studied to analyze ultrasonic images. About 10 articles in International conferences/Journal have been published. This work may extend to generate the critical databases of the various types of medical images for various types of disease diagnosis.

- **Biometrics:**

In an increasingly digital technology world, among the main innovation prospects and framework of future communication systems, design of database access integral services, e-commerce, remote control of terminals and devices being the result of global services derived from last generation. Some features stand out from such future services like authentication in human machine interacting to deal with security and identification problems, that's why the use of biometric based technology get developed. This is new and emerging technology due to its high degree of maturity and reliability.

Fingerprint The performance of fingerprint recognition system is depends on the quality of input fingerprint image, so huge efforts are required to improving the quality of fingerprint image. In this work the composite algorithm, a novel SWT based Composite methods has been proposed for the Fingerprint Image enhancement. Also compared the performance of before and after of applying these algorithm by extracting features in terms of sensitivity and specificity. This result also reflects the average sensitivity that was 89% and 95% before and after post processing respectively. Similarly, for specificity, we got high specificity after pre-processing i.e. 89% as compare to before i.e. 78%.

Recently moved towards the Face Recognition and the hybrid biometrics (like Face & fingerprint, multiple fingerprints of different fingers etc)

- **Handwritten Recognition:**

Free style handwriting recognition is a difficult problem, not only because of the great amount of variants in handwriting, but also because of the overlapping and the interconnection of the neighboring character. In this work the development of an investigation of segmentation technique, structural based character classification. The box fitting method has been proposed and it gives 80% of recognition.

- **Bio Informatics:**

Computational simulation of experimental biology is another application for bioinformatics which is apply to refer to as 'in silico' testing. This perhaps an area, which will expand in prolific way, given a need to obtained a greater degree of predictability in animal and human clinical trials. Added to this, is interesting scope that in silico' testing provides to deal with the brewing hostility towards animal testing.

The sequence based searching and explorations of the biological databases (Plant viruses) are often saves a lot of time in the lab. Identifying homologous sequences provides bases for phylogenetic analysis and sequence pattern recognition. Software for prediction for ORF, genes, exon splice sites, promoter binding sites, repeat sequences, and tRNA gene helps molecular biologist make sense out of unmapped DNAs. Inadequate sequences and data are available on plant viruses, which need further expansion and revision. These sequence need to be characterized for their use in agri biotech and pharmaceuticals. Thus, data Intensive techniques such as high throughput screening and gene expression experiments demand methods to correlate large and diverse datasets. Genomic research requires analysis of large sequences and is heavily dependent upon bioinformatics computation where strict standards, requiring careful data selection for protein model building, followed by adequate testing and validation through bioinformatics tools required.

Bioinformatics research is very large database with complex queries and essential requirements for reliability, availability, and scalability of sequence analysis. Under this study around 1837 Plant virus databases has been studied as per the above mentioned aspect and published 7 articles in world class journals. The work may continue further for gene prediction and drug designing under this scenario.

- ***Software Engineering:***

In this work we had studied the various aspects of traditional and Object Oriented Software Engineering in view of S/W Reliability, various S/W Reliability model has been studied in view of trend analysis, Defect Density, exponential and Logarithmic Model Parameters. It is found that the existing S/W Reliability Models are used late in the implementation phase or operational phase which seems too late to be utilized for enhancing the reliability of the S/W. Since changes made to the S/W design after the product is almost complete requires around 20% to 80% of additional cost. With this motivation we had studied the existing OO Quality models, frameworks and metrics in the early design phase and predicted the reliability focus quality model for OO design through various case studies. The practical exploration to this model using various test cases shows that the R-square and adjusted R-square close to one & zero value of P shows the model validity. The reliability estimation shows that as the CMM level goes on increasing the reliability go on increasing also the team level increases the reliability increases. About 5 articles in International conferences/Journal have been published.

- ***Geospatial Technology***

Geospatial technology is increasingly applied in organizations today for its information-rich and highly visual interface that enables real-time business decisions. The rapid development of Geospatial technologies in recent years has made available new tools and capabilities to Extension services and clientele for management of spatial data. In particular, the evolution of geographic information systems (GIS), the global positioning system (GPS), and remote sensing (RS) technologies has enabled the collection and analysis of field data in ways that were not possible before the advent of the computer.

One of the most important applications of Geospatial Technologies is Agricultural, where we have done Crop area estimation, Crop type classification, Soil type classification and Agriculture Drought Severity Study by using Multispectral Satellite data of Aurangabad (MS), region. Land use / Land Cover Mapping of various region has been done from 2006 to till date using Multispectral Images of LISS-3, LISS-4, LandSAT-8 etc.; also these Temporal data sets were used to identify a change in LULC. Results have been used for Future planning and better land management for socio-economic development. From 2010 we were working on various SMART CITY Modules to make our city sustainable. For this purpose we have also designed and develop a GIS data base for various applications like Transport Network Analysis, Smart Public Transportation, Health Care information

System, Crime Mapping, Solid Waste Management and many more.

Our lab is also equipped with a FieldSpec-4 Spectro-radiometer and it is a Non-Imaging Hyperspectral Device used for data collection in both Laboratory as well as in-Situ (on field). By using this Hyperspectral device we have designed a Spectral library of Crop, soil, Plants etc. These data are used for Dyes Identification, Leaf Identification, Soil type classification, Mineral Identification etc. In this remarkable area we have produced 20 research articles in reputed journals.

Sponsored Major Research Projects

1. Development of Intelligent Biometric Technique in Fingerprint Recognition (Sponsored by University Grants Commission, Budget Rs.- 6.47 Lakh)

This project provides a comprehensive evaluation of fingerprint compression techniques using wavelet and wavelet packet, fingerprint image enhancement techniques, fingerprint image enhancement techniques using SWT, Fourier and spatial domain techniques and finally the feature extraction using mathematical morphology in terms of specificity and sensitivity to increase the robustness of the Automatic Fingerprint Recognition System (AFRS).

The main has been given to how compression ratio can increase by selecting appropriate threshold value. The compression ratio of noisy and noiseless fingerprint images are determined by considering number of zeros (NZ) and retained energy (RE) occurs after compression.

In this work in first phase we have applied Daubechies, Symlet and Coiflet transforms with different orders to fingerprint images of FVC2002 database. We determined NZ and RE at different orders from 1st to 5th level. If NZs are more, then compression ratio is also more. We found that to get highest compression ratio, the order and level must be high. We have compared these three transforms and their order as well as levels, and found that Coiflet is most suitable for fingerprint image compression, because it gives more NZs at 4th order with 5th level. Hence for fingerprint image compression Coiflet transform is most suitable.

In Second phase a novel SWT based Composite method has been used to deal with fingerprint image enhancement. The new approach adopts the de-noising by SWT.

The SWT based composite method provided better results on low contrast and noisy fingerprint images

Finally, we have introduced a method for removing superfluous information for genuine fingerprint feature extraction using mathematical morphological operation. This algorithm removes the spikes, spurs and dots very effectively and extracts a clear and reliable ridge map structure from input fingerprint image. We have also compared the performance of before and after of this morphological algorithm by extracting features in terms of sensitivity and specificity. This result also reflects the average sensitivity that was 89% and 95% before and after post processing respectively. Similarly, for specificity, we got high specificity after preprocessing i.e. 89% as compare to before i.e. 78%. About 28 articles in International conferences/Journal have been published.

2. Development of Multimodal Fingerprint Recognition System through Multiple Impressions and Matching Techniques (Sponsored by University Grants Commission, Budget Rs.- 8.96 Lakh)

Automatic pattern recognition system is essential to make a personal identification by determining the authenticity of specific psychological characteristic (fingerprint) possessed by the user to improve the system performance by considering performance evolution. At present so much work has been done in biometric (Unimodal) recognition system, but these systems have limitations in terms of noise in

sensed data, intra-class variations, distinctiveness, non-universality (Failure to accept), spoof attack etc. cause poor performance. To overcome these problems the use of multimodal is substitute and influential solution. In this proposed work our object is to develop intelligent biometric techniques by taking multiple impressions (snapshot) and multiple matching algorithms (pattern recognition techniques i.e. advanced matching techniques).

Fingerprint matching is basically divides in two categories i.e. Minutiae pattern matching and Structural matching. Recently, observed that taking minutiae types into consideration while matching can increase system's accuracy. Therefore, minutiae types should be considered when high-quality images are being used and minutiae extraction algorithm is reliable. As per our study and reported work, it is observed that, due to high distortion of fingerprint image the biometric automatic recognition does not show higher performance of recognition even though in the well matured recognition system. So, probable solution for this problem is to take multiple fingerprint images as an input of an individual (multiple fingerprints of different fingers) or can also possible for heterogeneous matching algorithms. For fingerprints point pattern matching, graph based matching, fuzzy graph model generally used. Further we can extend this study by using advanced pattern recognition techniques, Neural Network, and fuzzy logic.

3. UGC-SAP(II) DRS Phase I Programme Multimodal Biometrics (Sponsored by University Grants Commission, Budget Rs.- 62.05 Lakh+ Rs. 20.0 Lakh under BSR)

Objective: Development of Multimodal biometric system (using Face, Fingerprint, Palm print, Iris, and Signature) by considering the appropriate fusion level for the person's authentication or identification wherever it required also construction of the multimodal database system.

4. UGC-BSR One Time Research Grant (Rs. 7.0 Lakh under BSR) two times(2011-12, 2014-15)

Objective: Development of Robust Biometric System by considering recent problems and challenges in the biometrics technology through multimodal advance database designing and Neural Network & pattern recognition technique.

5. DST FIST 2013 (Rs. 120.0 Lakh)

Objective: Hyper Spectral Imaging and Non-Imaging data creation analysis and development of the spectral signatures libraries for the classification of vegetation crop, soil & minerals components through GIS applications.

6. UGC-SAP(II) DRS Phase II Programme Multimodal Biometrics (Sponsored by University Grants Commission, Budget Rs.- 77.75 Lakh)

Objective: Development of Multimodal biometric system (using 3D Face, Ear, EEG,ECG, Big Data) by considering the appropriate fusion level for the person's authentication or identification wherever it required also construction of the multimodal database.

7. DST Major Research Project entitled, "Design and Development of Hyperspectral Data Analysis Tools and Algorithms for end member Identification" [32.70/- Lakhs]

Objective: Design and Development of tools and techniques for Hyperspectral data analysis. The end member would be benefited for the best decision making.

8. Media Lab Asia, Ministry of Communications and Information Technology, Govt. of India, "Vishvesvaraya PhD Scheme for Electronics and IT"[55.06 Lakhs]

Objective: Electronic System Design and Manufacturing(ESDM) and IT/ IT Enabled Services(ITES) sector.

9. Rashtriya Uchchar Shiksha Abhiyan (RUSA), RR-Interval Measurement for Heart Rate Variability (HRV) Analysis, [15 Lakhs] Year 2016

Objective: This work aims to focus on Heart Rate Variability (HRV) Analysis for innovative biometrics and pre assessment of Heart related disease. The outcome of the work is directly converted into pilot product form and then converted into the real market product.

10. University Infrastructural Grants for various Department Under Rashtriya Uchchar Shiksha

Abhiyan (RUSA), 2016 [20 Crore]

Objective: The initiative has been taken to develop the advance multidisciplinary research in the domain of Geospatial Technology, Sensor Technology and Bar Coding Technology through which a Big Data Analysis and Advanced Sensor Development work has been carried out. Along with this the creation of state-of-art research laboratory for all stakeholders.

11. DST National Network Project on “Big Data Analytics – HSRS Data (BDA-HSRS) of Rs. 20 Crore”, our research Project entitled, “Design and Development of Hyper Spectral Data Analysis Tools and Algorithms for End Member Identification”, 2016, [32.96/- Lakhs].

Objective: This is the National project having one of the main objectives is to create national resources databases using Hyper Spectral and Multi Spectral Remotely sensed data. This big task has been divided into 37 different components on different sub areas at various IIT's and top level institutes to integrate the multiple sub domain of this Big Data Analytic under one roof. Furthermore after creation of data new algorithms and methods is going to discover and study in different domain. My contribution in this project is to identify the End Member Analysis of Hyper Spectral and Multi Spectral Data system. The outcome of this work would significantly contribute for automatic Hyper Spectral Data Classification and miniaturization of the complexity of the problem of un-mixing pixel. It will further found beneficial to high end decision making and supporting system based on the big data analytics of the domain.

List of Ph.D. Students Successfully Guided

No.	Name of Candidate	Research Topic	Status
1.	Dr. Manza Ramesh R	Studies on various aspects of Image Data Compression in Image Processing	Awarded (Dec2006)
2.	Dr. Chitra Atole	Software Reliability for Enhancing the reliability of software product: in Object Oriented Approach.	Awarded (Dec2006)
3.	Dr. Prapti Deshmukh	Image enhancement in Digital Image Processing and its Application.	Awarded (Dec2006)
4.	Dr. Gaikwad Ashok	Studies on various aspects of Segmentation in Image Processing	Awarded (January 2007)
5.	Dr. V. M. Thakare	Artificial Intelligence Techniques related to Trajectory of Robot arms	Awarded (May 2007)
6.	Dr. Seema Kawthekar	Study of Different aspects in Image analysis and understanding in Image processing.	Awarded (Sept.2007)
7.	Dr. C. Namrata	Word recognition under Document Image Processing	Awarded (May 2008)
8.	Dr. Vikas Humbe	Feature Extraction of Fingerprint Image Using Enhancement Techniques	Awarded (May 2008)
9.	Dr. Sagar Jambhorkar	Development of Fingerprint Image Segmentation Technique	Awarded (Sept. 2008)
10.	Dr. Mukta Dhopeswarker	Reliability: Analysis and Testing for quality software products.	Awarded (March 2009)
11.	Dr. Viren Gomase	Proteomics system architecture of plant virus and Bioinformatics based drug designing	Awarded (March 2009)
12.	Dr. S. S. Gornale	Development of Noisy Image compression technique using Multiwavelet Approach	Awarded (July 2009)
13.	Dr. Mahendra P. Dhore	Document Analysis: Text based Approach	Awarded (Feb 2011)
14.	Dr. Ganesh Magar	Synthetic Aperture Radar (SAR) Image Compression: Multiwavelet Approach	Awarded (Dec 2010)
15.	Dr. Sonali Kulkarni	Word Feature extraction in English to Marathi Translation Process	Awarded (October 2014)
16.	Dr. Avinash Kadam	Development of Microarray Image Analysis Technique: An Image Processing Segmentation Approach	Awarded (Nov 2010)
17.	Dr. Arjun Mane	Development of human face recognition technique for digital rights management based on Principal Component Analysis (PCA)	Awarded (Nov 2010)
18.	Dr. Punam Thakare	A Standard Approach To Form A Framework For Image Segmentation	Awarded (July 2011)
19.	Dr. Mamta Baheti	Development of Gujarati Handwritten Character Recognition	Awarded (Dec 2012)
20.	Dr. Premal B. Nirpal	Development of Software testing techniques for software reliability enhancement through genetic approach.	Awarded (Feb 2012)
21.	Dr. Kavita A. Khobragade	Iris Image Features Extraction: A Multi-wavelet Approach	Awarded (March 2015)
22.	Dr. Mukti E. Jadhav	Sputum Image Analysis for Diagnosis of Pulmonary Tuberculosis	Awarded (Feb 2013)
23.	Dr. Vijaya B. Musande	Development of Feature Extraction Technique for Remote Sensing Images: A Multi-wavelet Approach	Awarded (May 2012)
24.	Dr. Vidya V. Shengule	Study and Development of Restoration Technique for Remote Sensing Images	Awarded (March 2015)
25.	Dr. Najran N H Al_Dawla	Steganography Enhancement for Combining Text and Image through Image Processing Techniques	Awarded (October 2014)
26.	Dr. S. V. Chavan	Handwritten Character Recognition within Document Processing : An Artificial Neural Network Approach	Awarded (October 2014)
27.	Dr. Y. S. Rode	Development of Iris, Face and Palmprint based Multimodal Biometric System: A Neural Network Approach	Awarded (March 2015)
28.	Dr. M. M. Kazi	Face, Fingerprint and Signature Based Multimodal Biometrics System: A Score Level and Decision Level Fusion Approach	Awarded (April 2015)
29.	Mr. S. B. Dabhade	Hyperspectral Face Image Analysis for Human Authentication	Submitted

30.	Mr. Saleh MUSAED AHMED Al Subari	Development of a Knowledge Base Model of Hyperspectral Image Data Using Feature Extraction and Classification Techniques for GIS Applications	Working-Discontinued
31.	Dr. Nazneen A. Shaikh	Heart Rate Variability (HRV) Based Multimodal Biometric System for Human Authentication and Identification	Awarded (Dec. 2016)
32.	Mr. Nagsen S. Bansod	Fusion of Speech and EEG Modalities in Multimodal Biometrics System for Human Authentication	Submitted
33.	Mr. Rajesh K. Dhumal	Classification of Crop Types Using Spatial And Spectral Features From Remote Sensing Data	Submitted
34.	Mr. Ajay Nagne	Land Use Classification of Urban Areas from Hyperspectral Data Based on Spectral and Spatial Feature Extraction	Submitted
35.	Mr. Amol Vibhute	Spatial & Spectral Feature Extraction For Soil Type Classification From Hyperspectral Remote Sensing Data	Submitted
36.	Mr. Hanumant R. Gite	Dimensionality Reduction for Remote Sensing Data Using Advance Linear Approach Working	Working
37.	Mr. Amarsinh B. Varpe	Identification of Plant Species Using Non Imaging Hyperspectral Spectroradiometer.	Working
38.	Mr. Sumegh S. Tharewal	Multimodal Biometric Human Recognition System using 3D Face and 3D Ear	Working
39.	Mrs. Parminder Kaur Birdi	Spatial Data Mining of Multisource Data for Agriculture Usage	Working
40.	Ms. Rupali Ramkrishna Surase	Design and Development of Spectral Signature of Crops using Hyper Spectral Data Analysis Techniques	Working
41.	Mr. Mahesh Madhavrao Solankar	Hyperspectral Data Analysis for End Member Extraction Using Machine and Deep Learning Approach	Working
42.	Sandip Gaikwad	Remote Sensing and GIS	Working
43.	Sandip Thorat	Multimodal biometrics	Working

List of M. Phil. Students Successfully Guided

No.	Name of Candidate	Topic	Status
1	Mr. Yogesh S. Rode	Fingerprint recognition using Gabor filter: A multi impression approach	Awarded (Sept 2010)
2	Mr. Siddharth Dabhade	Human Face Recognition using Principal Component Analysis and LDA Techniques	Awarded (June 2012)
3	Mr. Rajesh K. Dhumal	Classification of Crops from remotely sensed image using fuzzy classification approach	Awarded (Oct 2013)
4	Ms. Apurva Dhawale	Multimodal Biometric System Design Using Fingerprint, Palmprint & Iris Traits For Human Identification	Awarded (June 2015)
5	Ms. Swapnali Garud	Multimodal Biometric System Design Using Fingerprint, Palmprint & hand geometry Traits For Human Identification	Awarded (October 2014)
6	Mr. Sandip Thorat	Crop Acreage Estimation Using Knowledge Classifier Approach	Awarded (June 2015)
7	Ms. Rupali Surase	An Empirical Analysis of Land Cover Identification, Change Detection and Multiple Crop Classification Using IRS P6 LISS-III Temporal Dataset	Awarded (June 2015)
8	Mr. Sandeep V. Gaikwad	Agricultural Drought Severity Analysis Using Landsat 8 Data of Vaijapur Tehsil	Awarded (April 2016)
9	Ms. Ratnamala M. Selukar	Multiple crops identification using support vector machine	Working-Discontinued
10	Mr. Amol Chitte	Multi-biometrics	Working-Discontinued
11	Mr. Prasad Mule	Geo-Spatial Technology	Working-Discontinued
12	Mr. Suvarnsing Bhale	A Multimodal Biometrics System for Face, Ear and Signature using Rank Level Fusion	Working
13	Ankushe Komal Prakash	Marathi Speech Analysis by(MR) Disabled Persons	Working
14	Maher Santosh	Real Time Monitoring and Analysis and Hearth Rate Variability	Working

	Kashiram	(HRV) through sensor	
15	Dapke Pratibha Purushottam	A comparative assessment between object-based and pixel-based Classification approaches of Different Classification technique for LULC mapping using LISS-III imagery	Working
16	Bhagure Manisha Jagannath	Remote Sensing	Working
17	Uttkarsha Ghodke	Multimodal Biometrics	Working

List of M. Tech. Students Successfully Guided

Sl.	Name of Candidate	Topic	Status
1	Mr. Ansari Shahebaz Meraj	Crime Mapping of Aurangabad City Using RS & GIS	Awarded (March 2015)
2	Ms. Bagade Kiran Dinesh	Classification of Green Portion From The Aurangabad Map	Awarded (March 2015)
3	Ms. Bhosle Supriya Ashok	Scale Invariant and Deformation Tolerant Partial Shape Matching	Awarded (March 2015)
4	Mr. Choutmal Pankaj Pachiram	A Multimodal Biometric System Using Finger Print And Face as Traits	Awarded (March 2015)
5	Mr. Devkar Rajesh Subhashrao	Change Detection In Satellite Images Based on Image Fusion And Fuzzy Clustering	Awarded (March 2015)
6	Ms. Dabhade Amrapali Chhaganrao	GIS Based Health Care Information System For Aurangabad City	Awarded (September 2015)
7	Ms. Gaikwad Dipali Baliram	LBS for Providing Healthcare Facility on Accident Spots In Aurangabad City	Awarded (September 2015)
8	Mr. Swapnil R. Rajput	Cross Platform Smart Phone Emergency Reporting Application in Urban areas Using GIS Location Based and Google Web Services	Awarded (May 2016)
9	Sumedh D Kashid	Solid Waste Management : Allocation and relocation of waste bins by using Remote Sensing and GIS	Awarded (May 2016)
10	Dhananjay Nalawade	Smart Public Transport for Aurangabad City Using Geographic Information Sytem	Awarded (July 2016)
11	Hitesh Raut	Waste Food Management Using GIS Environment	Awarded (July 2016)
12	Mohamed Sohel	Citizen complaint System for Urban Maintenance using GIS	Working
13	Umesh Raut	GIS Contribution for Identification of Accident Balck Spot of Aurangabad City	Awarded (July 2016)
14	Vikas Bhausaheb Gore	System for Hyperspectral Data Analysis, Visualization using PLS	Awarded (Dec 2016)
15	Rasika Tukaram Kalyane	System for Hyperspectral Data Analysis, Visualization using PCA	Awarded (Dec 2016)
16	Chatse Mayuri Bhiwa	System for Hyperspectral Data Analysis , Visualization using K-means	Awarded (Dec 2016)
17	Sudhir Khobragade	School Mapping of Aurangabad City using GIS	Working
18	Digambar Ghayal	Application of GIS & RS in road monitoring	Working
19	Mr. Auti Vilas Manikrao	Satellite Image Resolution Enhancement	Working
20	Mr. Darunte Maheshkumar	Impact Assessment of Water Scarcity on Nathasagar Reservoir	Working
21	Ingale Sarita Anantrao	Shadow Detection And Removal in VHR Images	Working
22	Kunal Bhagwanrao Dahale	Location-based Food from Home (FFH) Service System Mobile App for Delivering Food Parcels Made by Homemakers/Local Chefs	Working
23	Shahu Baviskar	Aurangabad City Water Utility Management through Web Portal	Working

List of Publications

Journals, International and National Conferences

A. International Journal

1. K. V. Kale, Chitra S. Atole, "Software Reliability Model Review: In light of Software development process", Software engineering Institute (SEI) CMM <http://seir.sei.cmu.edu/2005>
2. K. V. Kale, VikasHumbe, S. S. Gornale, Ramesh Manza "Mathematical Morphology Approach for Genuine Fingerprint Feature Extraction", in International Journal on Computer Science and Security (IJCSS), Vol. 1, Issue 2, PP. 53-59, 2007, ISSN - 1985-1553, [24 Citations](**Impact Factor = 7.306**)
3. K.V.Kale ,S.S.Gornale, R.R.Manza, VikasHumbe "Performance Analysis of Biorthogonal Wavelet Filters for Lossy Fingerprint Image Compression" International Journal of Imaging Science And Engineering (IJISE) vol_001 January 2007, ISSN 1934-9955, [17 Citations] (**Impact Factor: 1.024**)
4. K.V.Kale , S. S. Gornale, Vikas T Humbe, R. R. Manza, "Fingerprint Image Compression using Retain Energy and Number of Zeros through Wavelet Packet (WP)", International Journal on Computer Science and Security (IJCSS), Vol. 1, Issue 2, PP. 35-42, 2007, ISSN - 1985-1553 [10 Citations](**Impact Factor = 7.306**)
5. Gomase V.S., Aga A.S., Kale K.V. and Chikhale N.J ,“Prediction of MHC Class binding peptide of coat protein from Sugarcane mosaic virus”, International Journal of Pharmacology and Biological Sciences, 2007, 1(3), 51-58. [132], Print ISSN-0973-6803, (**Impact Factor = 5.121**)
6. V.S.Gomase and K.V.Kale “In silico prediction of epitopes: a new approach for fragment based viral peptide vaccines” Int. J. of Applied Computing, 1(1), 39-46, 2008, ISSN : 0974-6277 [29 Citations]
7. V.S.Gomase and K.V.Kale, “Approach of proteomics system architecture in plant virus’s database” Int. J. of Applied Computing, 1(1), 33-38, 2008, ISSN : 0974-6277 [28 Citations]
8. V.S.Gomase and K.V.Kale “Phylogenetic study of DNA-binding motifs of cytochrome-c Vigna radiate”. Int. J. of Information Retrieval, 2008, 1(2), 21-25, ISSN : 0974-6285
9. V.S.Gomase and K.V.Kale “SVM based prediction of MHC class nonamers from t1 particle of Brome mosaic virus”. Int. J. of Applied Computing, 2008, 1(2), 29-33,ISSN : 0974-6277
10. V.S.Gomase and K.V.Kale “Application of computational algorithms for prediction of TAP and MHC binders of neurotoxin (Alpha-toxin BeM10) from Mesobuthuseupeus”. Int. J. of Applied Computing, 2008, 1(2), 35-43, ISSN : 0974-6277
11. V.S.Gomase and K.V.Kale “Structural and Functional Analysis of Catalytically Active Tobacco Etch Virus Protease”. Int. J. of Biotechnology Research, 2008, 1(2), 97-114, ISSN 2328-3505 (**Impact Factor = 0.7658**)
12. V.S.Gomase and K.V.Kale “Phylogenetic analysis of coat proteins from potyviridae family“ Int. J. of Biotechnology Research, 2008, 1(2), 121-125, ISSN 2328-3505 (**Impact Factor = 0.7658**)
13. V.S.Gomase and K.V.Kale “Prediction of MHC, TAP Peptide binders for fragment based peptide vaccines from Foot and mouth disease virus-O-strain.” Int. J. of Bioinformatics, 2008, 1(2), 95-113, ISSN : 0975-3087 (Print) E-ISSN : 0975-9115 (Online) (**Impact Factor = 4.326**)
14. V.S.Gomase, J.P.Tandale, S.A.Patil, K.V.Kale, “Automatic modeling of protein 3d structure RNA-directed RNA polymerase” Int. J. of Biotechnology Research, 2008, 1(1), 17-35, ISSN 2328-3505 (**Impact Factor = 0.7658**)
15. V.S.Gomase and K.V.Kale, “Bioinformatics based sequence analysis of Nucleoplasmin like viral coat protein”, Int. J. of Information Retrieval, 2008, 1(1), 11-15, ISSN : 0974-6285 [19 Citations]
16. Kadam A.B., Manza R.R. and Kale K.V. "Microarray Spot Detection Using Flat Structuring Periodic Line And Specific Distance Shaped Morphology", Bioinfo. Publications, International Journal of Machine Intelligence, Issue 2, 2009, ISSN : 0975-2927 (Print) E-ISSN : 0975-9166 (Online), [**ICV-7.09**]
17. S. Tagore, V. S. Gomase and K. V.Kale “Biological pathways and their modeling.” International Journal of Computer Research, Volume 17 Issue 3, Article 1 2009, ISSN: 1535-6698
18. S. Tagore, V. S.Gomase and K. V. Kale Kale “Supervised learning approaches in pathway modeling”. International Journal of Computer Research, Volume 17 Issue 3, Article 2, 2009, ISSN: 1535-6698
19. S. Tagore, V. S. Gomase and K. V. Kale. “Shortest path algorithms in pathway analysis.” International Journal of Computer Research, Volume 17 Issue 3, Article 3, 2009, ISSN: 1535-6698
20. S. Tagore, V. S.Gomase and K. V. Kale “Clustering algorithms in pathway modeling.” International Journal of Computer Research, Volume 17 Issue 3, Article 4, 2009, ISSN: 1535-6698

21. S. Tagore, V. S.Gomase and K. V. Kale “Pathway Modeling: New Face of Graphical Probabilistic Analysis” International Journal of Computer Research, Volume 17 Issue 3, Article 5, 2009, ISSN: 1535-6698
22. S. Tagore, V. S.Gomase and K. V. Kale. “Inductive logic programming in pathway analysis.” International Journal of Computer Research, Volume 17 Issue 3, Article 6, 2009, ISSN: 1535-6698
23. S. S. Gornale, VikasHumbe, Ganesh Magar, Ramesh Manza, K.V. Kale “Application of Multi-Resolution Techniques for Medical Image Compression” International Journal of Imaging Science and Engineering Volume 3 No.4 Oct-2009, ISSN 1934-9955, TIFR Signal Processing Society (**Impact Factor: 1.024**)
24. M.P. Dhore, Dr. V.M. Thakare, Dr. K.V. Kale. “Text Document Page Segmentation Algorithms: A Review”, International Journal of Computer Applications in Engineering, Technology and Sciences (IJ-CA-ETS) ISSN: 0974-3596 | Volume 2 Issue 1 | OCT ‘09 – MARCH ’10 pp.27-33 (**Impact Factor: 0.537**)
25. Kale K.V Gornale S.S, Humbe V., Manza R., “Fingerprint image de-noising using multi-resolution analysis (MRA) through stationary wavelet transform (SWT) method”, International Journal on Knowledge Engineering, ISSN: 2382-6185, Vol. 1, Issue 1, 2010, PP-05-14 [6 Citations]
26. Arjun V. Mane, R. R. Manza And K. V. Kale, “The Role of Similarity Measures in Face Recognition”, International Journal of Computer Science and Application IJCSA-2010,Vol. 1, ISSN 0972-9038 [3 Citations]
27. Arjun V. MANE Student Member, IEEE, Ramesh R. MANZA and Karbhari V KALE, Member, IEEE “Human Face Recognition Using Superior Principal Component Analysis (SPCA)”, International Journal of Computer Theory and Engineering, IJCTE Vol 2, No 5,October,2010, DOI: 10.7763/IJCTE.2010.V2.225, ISSN: 1793-8201
28. A. B. Kadam, R. R. Manza And K. V. Kale, “Novel Approach For Microarray Segmentation Using Two Shaped Flat Structuring Periodic Line And Specific Distance Shaped Morphology”, International Journal of Computers, Information Technology and Engineering, Volume 4 • Number 2 • December 2010 • pp. 87-96, ISSN : 0973-743X
29. G. M. Magar, S. S. Gornale, V. T. Humbe, R. R. Manza, Dr. K. V. Kale, “Exploiting Multiwavelets for Lossy Compression in SAR Imaging”, International Journal of Computer Applications and Business Intelligence (IJCABI), ISSN 0975-0945X, Volume: 01, Issue: 04, October – December 2010 issue, pp: 31-40
30. M.P. Dhore, Dr. V.M. Thakare, Dr. K.V. Kale. “Evaluation Of Geometric Layout Analysis Techniques For Document Image Analysis”, International Journal of Computer Applications. (IJCA) ISSN: 0975-8887 | Volume 1 No. 25 | 2010 pp.110-114(**Impact Factor = 0.752**)
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32. Premal B. Nirpal, K. V. Kale “A Brief Overview Of Software Testing Metrics” International Journal of Computer Science & Engineering (IJCSE), Vol. 3 No. 1 PP 204-211, Jan 2011, ISSN : 0975-3397 [10 Citations](**Impact Factor = 2.162**)[**citation 18**]
33. Premal B. Nirpal, K. V. Kale, “Comparison of Software Test Data for Automatic Path Coverage Using Genetic Algorithm”, International Journal of Computer Science & Engineering Technology (IJCSET), Vol. 1 No.1 PP 12-16, Feb 2011, ISSN:2229-3345 [16 Citation]
34. Mukti Jadhav, K. V. Kale, “Analysis of ZN-Stained Sputum Smear Enhanced Images for Identification of Mycobacterium Tuberculosis Bacilli Cells”, IJCA, Vol. 23 No. 5, pp. 10-16, June 2011, ISSN: 075-8887[2 Citation](**Impact Factor = 0.752**)
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36. Mamta Maloo, K. V. Kale, “Support Vector Machine Based Gujarati Numeral Recognition”, International Journal of Computer Science & Engineering (IJCSE), Vol. 3 No. 7, pp.2595-2600, July 2011, ISSN: 0975-3397. [19 Citation](**Impact Factor = 2.162**)
37. Mamta Maloo, K. V. Kale, “Gujarati Script Recognition: A Review”, International Journal of Computer Science Issues (IJCSI), Vol. 8 Issue 4 No. 1, pp.480-489, July 2011, ISSN: 1694-0814. [16 Citation](**Impact Factor = 0.242**)
38. M. J. Baheti, A. V. Mane, M. S. Hannan, K. V. Kale, “Comparison of PCA and SVM for a west Indian Script- Gujarati”, CIIT Journal of Digital Image Processing, Vol. 3. No. 11, July 2011, pp. 709-715,

- Print: ISSN 0974 – 9691 & Online: ISSN 0974 – 9586(**Impact Factor =0.652**) [3 Citation]
39. Arjun V Mane, Yogesh S Rode and K V Kale, “Novel Multiple Impression based Multimodal Fingerprint Recognition System”, International Journal of Computer Applications 27(8):26-31, August 2011. Published by Foundation of Computer Science, New York, USA, ISSN: 0975 – 8887, [5 Citation] (**Impact Factor = 0.752**)
 40. Magar G.M., Gornale S.S and Kale K.V. ,“Multi Wavelet Transformation for SAR Image Coding: Performance Evaluation for Lossy Compression”, Journal of Signal and Image Processing, Vol. 2, Issue 1, August 2011, pp-26-35, ISSN: 0976-8882 & E-ISSN: 0976-8890, (ICV) : 6.94
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 42. Dhore M. P, Thakare V. M, Kale K. V., “A Novel Morphological Technique For Segmentation Of Document Images In NIST Database”, International Journal of Machine Intelligence, 2011, Volume 3, Issue 5, pp. 172-180, ISSN : 0975-2927 (Print) E-ISSN : 0975-9166 (Online), (ICV) : 7.09 [1 Citation]
 43. Baheti M.J., Kale K.V., Jadhav M.E., “Comparison of Classifiers for Gujarati Numeral Recognition”, International Journal Of Machine Intelligence, 2011, Volume 3, Issue 3, pp. 160-163, ISSN : 0975-2927 (Print) E-ISSN : 0975-9166 (Online), (ICV) : 7.09 [17 Citation]
 44. Dhore M.P. , Thakare V.M. , Kale K.V., “Morphological Segmentation In Document Image Analysis For Text Document Images”, International Journal of Computational Intelligence Techniques ,Vol. 2, Issue 2, 2011, PP-35-43,(October 12, 2011) ISSN: 0976–0466 & E-ISSN: 0976–0474, (ICV) : 6.84
 45. C Namrata Mahender, KV Kale, “Structured based Feature Extraction of Handwritten Marathi word”, 2011, International Journal of Computer Applications, Volume 16, Issue 6, pp. 42-47 [6 Citation] (**Impact Factor = 0.752**)
 46. M. M. Kazi, Y. S. Rode, S. B. Dabhade, N. N. H. Al-Dawla, K. V. Kale, R. R. Manza, A. V. Mane, “Multimodal Biometric System Using Face And Signature: A Score Level Fusion Approach”, 2012, Advances in Computational Research, Volume4, Issue1, pp. 99-103, ISSN: 0975-3273 & E-ISSN: 0975-9085, (ICV) : 7.00 [7 Citation]
 47. Vijaya Musande, Anil Kumar, Karbhari Kale, “Cotton Crop Discrimination Using Fuzzy Classification Approach”, Journal of the Indian Society of Remote Sensing, December 2012, Volume 40, Issue 4, pp 589–597 (Springer: doi:10.1007/s12524-012-0201-z), ISSN: 0255-660X (print version), ISSN: 0974-3006 (electronic version),Impact Factor 0.676 [12 Citations]
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 50. Somnath Waghmare, Virendra Gomase, Ramrao Chavan and Kale K.V., “Prediction of Major Histo compatibility Complex Binding Peptides and Epitopes from Fatty-Acid-Binding Protein of the Human Blood Fluke Schistosoma Japonicum”, Metabolomics 2012, 2: 113, ISSN: 2153-0769, Impact Factor 1.67*
 51. SomnathWaghmare, VirendraGomase, Jaywant Dhole, RamraoChavan and Kale K.V. “Immunoproteomics Approach for Development of Synthetic Peptide Vaccine from Thioredoxin Glutathione Reductase”, Metabolomics 2012, f2: 111, ISSN: 2153-0769, Impact Factor 1.67*
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 54. M. M. Kazi, Y. S. Rode, S. B. Dabhade, N. N. H. Al-Dawla, K. V. Kale, R. R. Manza, A. V. Mane, “Image Retrieval and Interested Image Detection for thought processing using EEG Signals”, UACEE International Journal of Computer Science and its Applications (IJCSIA) - Volume 2: Issue 2, pp. 41-45 [ISSN 2250 - 3765] [3 Citations]

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57. M. J. Baheti, K. V. Kale, "Comparison Of SVM And Fuzzy Classifier For An Indian Script", *ICTACT Journal on Soft Computing*, January 2012, Volume 2, Issue 2 pp 265-269. ISSN Number (Print) 0976-6561, ISSN Number (Online) 2229-6956
58. Kavita Khobragade, K. V. Kale, "An Iris Localization Algorithm: A Review", *International Conference on Current Trends and Challenges in Management, Engineering, Computer Applications and Technology, (ICCTCMecat-2012)*, 23-25 March 2012, Organized by Deogiri College of Engineering and Management Sciences, Aurangabad, (MS), 431005, India. Published in *International Journal of Advances in Management, Technology & Engineering Sciences*, Volume 1, Issue 6 (IX), March 2012, pp. 194-197 ISSN: 2249-7455.
59. M. J. Baheti, K. V. Kale, "Gujarati Numeral Recognition :Affine Invariant Moments Approach", *Special Issue of International Journal of electronics, Communication & Soft Computing Science & Engineering*, ISSN: 2277-9477, Mar 2012, pp. 140-146. [3 Citations] **(Impact Factor = 4.526)**
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61. Santosh Gaikwad, BhartiGawali and K V Kale, "Accent Recognition for Indian English using Acoustic Feature Approach", *International Journal of Computer Applications* 63(7):25-32, February 2013. Published by Foundation of Computer Science, New York, USA. ISSN: 0975-8887 [4 Citations] **(Impact Factor = 0.752)**
62. Mukti Jadhav, Prachi P Janrao and K V Kale, "Acid Fast Stain Sputum Smear Images Data Set for Diagnosis of Tuberculosis", *IJCA Proceedings on International Conference and Workshop on Emerging Trends in Technology 2013 ICWET (1):8-13*, April 2013. Published by Foundation of Computer Science, New York, USA. **(Impact Factor = 0.752)**
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64. Virendra S. Gomase, Nikhilkumar R. Chitlange, Smruti S. Changbhale and Karbhari V. Kale. (2013) Prediction of Brugiamalayi Antigenic Peptides: Candidates for Synthetic Vaccine Design Against Lymphatic Filariasis, *Protein & Peptide Letters*, 20(8), 864 – 887. DOI: 10.2174/0929866511320080004 [Impact factor (Thomson - ISI) : 1.942] , ISSN: 1875-5305 (Online) ISSN: 0929-8665 (Print) [5 Citations]
65. Rajesh K. Dhumal, Yogesh D. Rajendra, K. V. Kale, S. C. Mehrotra, "Classification of Crops from remotely sensed Images: An Overview", *International Journal of Engineering Research and Applications (IJERA)* ISSN: 2248-9622, www.ijera.com, Vol. 3, No. 3, June 2013, pp. 758-761 [12 Citation] **(Impact Factor = 1.69)**
66. S. B. Kulkarni, P. D. Deshmukh, M. M. Kazi, K. V. Kale, "Linguistic To Socio-And-Psyco Linguistic Aspects In English-To-Marathi Language Translation", *International Journal of Research in Computer Applications And Robotics*, 2013; 1(9):197-205, ISSN: 2320-7345, **(Impact Factor = 5.012)**
67. K. V. Kale, S. V. Chavan, M. M. Kazi and Y. S. Rode, "Handwritten and Printed Devanagari Compound using Multiclass SVM Classifier with Orthogonal moment Feature", *International Journal of Computer Applications* 71(24):31-37, June 2013. Published by Foundation of Computer Science, New York, USA. [1 Citation] **(Impact Factor = 0.752)**
68. Rajesh K.Dhumal, YogeshRajendra, VidyaShengule, K.V.Kale, "Classification of Crops from Remotely Sensed Images Using Fuzzy Classification Approach", *International Journal of Advanced Research in Computer Science and Software Engineering* 3(7), July 2013, ISSN: 2277 128X, **(Impact Factor = 2.5)**
69. Vidya V. Shengule, Rajesh K. Dhumal and K.V. Kale, "Georeferencing of Remote Sensing Images through Map to Image Transformation", *CiiT International Journal of Digital Image Processing* Print: ISSN 0974 – 9691 & Online: ISSN 0974 – 9586, July 2013, DOI: DIP072013003 **(Impact Factor**

=0.652)

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71. Karbhari V. Kale, Yogesh Rode, Majharoddin M. Kazi, Shrinivas Chavan, Siddharth Dabhade, and Prapti Deshmukh, "Multimodal Biometric System Using Finger Knuckle and Nail: A Neural Network Approach", International Journal of Electrical Energy, Vol. 1, No. 4, pp. 222-227, December 2013. doi: 10.12720/ijoe.1.4.222-227[1 Citation], ISSN: 2301-3656
72. S. B. Kulkarni, P. D. Deshmukh, M. M. Kazi and K. V. Kale, "Linguistic Divergence Patterns in English to Marathi Translation", International Journal of Computer Applications 87(4):21-26, February 2014. Published by Foundation of Computer Science, New York, USA. DOI: 10.5120/15197-3579 **(Impact Factor = 0.752)**
73. Kavita Khobragade, K. V. Kale, "A New Technique for Fast and Accurate Iris Localization", International Journal of Innovations in Engineering and Technology (IJJET), ISSN: 2319-1058, Volume 3 Issue 3, February 2014, pp. 25-32 **(Impact Factor = 0.672)**
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75. Kavita Khobragade, Dr. K.V. Kale, "Iridodialysis: Open Challenges and Issues in Iris Recognition", Elsevier Science and Technology Publication and Proceeding of International Conference on Recent Trends in Engineering Sciences (ICRTES-2014), 15-16 March 2014, pp- 142-145, Organized by Spvryan International, Nashik, (MS), India[ISBN : 978-93-5107-223-2] , Published in Spvryan's International Journal of Engineering Sciences & Technology (SEST) ISSN : 2394-0905, Issue 5 Volume 2, PP.1-4
76. Narayan P. Bhosale, Ramesh R. Manza, Kale K. V., "Image Denoising based on Wavelet for Satellite Imagery: A review", International Journal of Modern Engineering Research (IJMER) - ISSN: 2249-6645, PP-63-68, Issue 4, April, 2014(IF:2.7).
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