

BIO DATA
OF
DR. M. RAVISHANKAR



Dr. M RAVI SHANKAR

PRINCIPAL

DAYANANDA SAGAR ACADEMY OF TECHNOLOGY & MANAGEMENT

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principalsatm@gmail.com

1. EDUCATIONAL QUALIFICATION

Degree	Specialization	Year
Ph.D	Doctor of Philosophy in Computer Science (Department of Studies in Computer Science, University of Mysore, Mysore.)	2006
M.Tech	Master of Technology in Industrial Electronics (Sri Jayachamarajendra College of Engineering, University of Mysore, Mysore.)	1999
B.E	Bachelor of Engineering in Electrical & Electronics Engineering (Adichunchanagiri Institute of Technology, Chikmagalur, Kuvempu University)	1997

2. WORKING EXPERIENCE

- Currently working as **Principal**, Dayananda Sagar Academy of Technology & Management, Bangalore from 8th October 2021 till date.
- 30th October 2014 to 7th October 2021 worked as **Principal**, Vidya Vikas Institute of Engineering & Technology, Mysuru.
- 12th July 2007 to 29th October 2014, worked as a **Professor & Head**, Department of Information Science & Engineering, Dayananda Sagar College of Engineering, Bangalore.

- 9th September 2004 to 3rd July 2007, worked as a **Professor & Head**, Department of Electronics & Communication Engineering, Acharya Institute of Technology, Bangalore.
- 5th November 1998 to 1st September 2004, Worked as **Assistant Professor & Head**, Department of Electronics & Communication Engineering, Vidya Vikas Institute of Engineering and Technology, Mysore.

3. PROFESSIONAL AFFILIATION

- Indian Society of Technical Education - Life Member MISTE
- Computer Society of India (CSI)
- International Association of Engineers (IAENG)

4. PROGRESS CHRONOLOGY

The major career period may be divided as:

1. **Pre-Ph.D Period** - 1999 to 2001

Major Contributions:

Industrial Consultancy, Assistance in ISTE Programmes, Initiation into Speech Processing and Image Processing.

2. **Ph.D. Period** - 2001 to 2006

Exposure to Speech Recognition, MATLAB.

3. **Post-Ph.D. Period** - 2006 to date

Participation in research projects, motivation of UG & PG students into areas of Research, efforts for tie-ups for Research & Development. Guiding Research Scholars towards Ph.D under Visvesvaraya Technological University, Belgaum

5. RESEARCH INTEREST

Speech Processing, Digital Image Processing & Computer Vision, VLSI in Image Processing.

6. COURSES TAUGHT

Undergraduate

- Network Analysis
- Control Systems
- Speech Processing
- Digital Image Processing
- Operation Research & Industrial Management

Post Graduate

- Digital Image Processing & Computer Vision
- Real Time & Embedded Systems
- Embedded Computing Systems

7. PROJECTS GUIDED

Guided about 80 UG and PG in the areas of Speech Processing, Image Processing, Computer Vision, Pattern Recognition, Industrial Electronics, Power Electronics. Several of these projects resulted in papers presented at National Conferences.

8. RESEARCH AND DEVELOPMENT

8.1 INVESTIGATIONS IN THE FORM OF UG & PG PROJECTS

- a. Speech recognition – In the process of formulating undergraduate and research problems
- b. Biometrics Investigations in Finger Print Recognition, Face Recognition, Voice Recognition, Iris Recognition and Palm geometry, Medical Image Processing.
- c. Optical Character Recognition (OCR) for Kannada Language has been successfully implemented and also being experimented on other South Indian Languages.

8.2 INVESTIGATIONS IN THE FORM OF RESEARCH PROJECTS

Investigations are being carried out in the design of Signal Processing applications in Speech Recognition using VLSI approaches on FPGA.

8.3 REVIEWER OF INTERNATIONAL JOURNALS

Reviewer of International Journals including IEEE Transactions on Emerging Topics in Computational Intelligence.

8.4 ACADEMIC RESEARCH LEADING TO PH.D.

Five candidates are currently registered for Research under Visvesvaraya Technological University, Belgaum.

CANDIDATE	TITLE OF RESEARCH	STATUS
PH.D		
1.	Efficient VLSI Architecture for Image Enhancement Techniques	Awarded
2.	An Attempt towards Development and Analysis of Automatic Face Recognition System	Awarded
3.	An Attempt towards of Automation of Video Surveillance System for Detecting and Tracking of Moving Objects	Awarded
4.	Enhancement Techniques for Improving Image Quality to diagnose Breast Cancer	Awarded
5.	Development of Image Processing Algorithms for Detection and Classification of Lung Nodules for Staging of Lung Cancer	Awarded
6.	An Approach towards Text Extraction from Video using Pattern Recognition Methods	Awarded
7.	Early Detection of Breast Cancer	Awarded
8.	Early Detection of Breast Cancer from MRM Images	Awarded
9.	An Efficient Approach for early detection of breast cancer and classifying its Stages using Mammogram Image with the aid of Optimization Algorithms	In Progress
10.	Novel Approaches for Early Detection and Segmentation of Brain Tumor	In Progress

9. ENTREPRENEURSHIP & INNOVATION - NEW AGE INCUBATION NETWORK (NAIN)

Department of IT, BT, Government of Karnataka has started “New Age Incubation Network (NAIN)”, to encourage Entrepreneurship and Innovation it is proposed to establish incubation centers in ICT sector in association with selected engineering colleges at district headquarters.”

The program is designed to give preference to students, research scholars and alumni of the chosen colleges to share their ideas to solve chosen problems which are local centric and to validate, refine and nurture the ideas.

Funding Amount: 1 Crore 20 Lakhs

Principal Investigator: Dr. M Ravishankar

10. RESEARCH PUBLICATIONS

10.1 JOURNALS

- 1) Generation of Pitman Shorthand Language Characters from Spoken English Language: An Approach based on Mel Frequency Cepstral Coefficients and Vector Quantization Techniques. Journal of Computer Society of India, Vol 35, Issue No2 April – June 2005.
- 2) A Linear Predictive Coefficient based Algorithmic approach for the generation of Pitman Shorthand Language symbols for Consonants and Vowels, Journal of Analysis and Computation, Vol No 2 Issue No1 May 2006.
- 3) Hidden Markov Model- based approach for generation of Pitman Shorthand Language Symbols for Consonants and vowels from Spoken English, Journal of Sadhana, Vol No 31, Part 3, June 2006.
- 4) High Speed Block Convolution using Ancient Vedic Mathematics, Journal of IEEE Computer Society of India.
- 5) Automated Detection and Recognition of Face in a Crowded Scene, International Journal of Computer and Network Security, Vol 2, No 6, June 2010, pp 65-70.
- 6) Single Moving Object Recognition – SiMoR, International Journal of Intelligent Systems, Page -, ISSN (Online) 2191-026X, ISSN (Print) 0334-1860, Feb 2011.

- 7) An Efficient VLSI Architecture for Adaptive Rank Order Filter for Image Noise Removal, "International Journal of Information & Electronics Engineering", Vol. 1, No. 1, July 2011.
- 8) An Adaptive edge preserved denoising and contrast enhancement for early detection of carcinoma, Journal of Carcinogenesis.
- 9) "Optimized Histogram Based Contrast Limited Enhancement for Mammogram Images", International Journal on Information Technology, JIT Vol. 3, Issue 1, March 2013.
- 10) "Automated Segmentation of Lung Regions using Morphological Operators in CT Scan", International Journal of Scientific and Engineering Research (IJSER), Volume 4, Issue 9, 2013.
- 11) "A New Log Gabor approach for text detection from video. International Journal of Signal Processing Systems, 2:1, June 2014.
- 12) "A New Log gabor approach for text detection from video". International Journal of Signal Processing Systems, 2:1, June 2014.
- 13) "A New Log Gabor Approach for Text Detection from Video." JMPT 5.2 (2014): 43-53.
- 14) "An Effective Edge and Texture based approach towards Curved Videotext Detection and Extraction, The International Journal of System Dynamics Applications (IJSDA), 2015.
- 15) "A Survey on Classifying the Stages of Malignancy in Breast Cancer using Mammogram Images" has been presented in International Conference on Engineering, Science, Management and Advances in Research Technology (ICESMART), T. John Institute of Technology, Bangalore. The paper would be published in International Journal of Engineering Research and Technology (IJERT), 2015.
- 16) "An Effective Edge and Texture Based Approach towards Curved Videotext Detection and Extraction." International Journal of System Dynamics Applications (IJSDA) 4.3 (2015): 1-29.
- 17) "Detection of Breast Masses in Digital Mammograms using SVM" IJCTA International Science Press 8(3), pp 899-906, 2015.
- 18) A Survey on Classifying the Stages of Malignancy in Breast Cancer using Mammogram Images" in International Journal of Engineering, Research and Technology, ISSN: 2278-0181, Volume 3, Issue. 19, ICESMART-2015.

- 19) "A Framework for Curved Videotext Detection and Extraction" Vol. 6 - Issue 1 (January - 2016), International Journal of Engineering Research and Applications (IJERA), ISSN: 2248-9622.
- 20) "A Combinational approach towards Multi oriented Videotext Detection and Recognition", International Journal of Scientific and Engineering Research(IJSER)
- 21) "A Novel Approach Towards Detection and Identification of Stages of Breast Cancer" in Advanced Computing, Networking and Informatics, Smart Innovation, Systems and Technologies 43, DOI 10.1007/978-81-322-2538-6 26, Springer India 2016.
- 22) "Novel MCFC Algorithm for Detection of ROI and Calculation of Energy value in Multiple Scale and Orientation for Early Detection of Stages of Breast Cancer" has been accepted for publication in International Journal of Biomedical Engineering and Technology, Inderscience (in press).
- 23) "Improvement in detection accuracy of digital mammogram using point transform and data mining technique" ICTACT Journal on Image and Video Processing, Vol 09, Issue 05, August 2018.

10.2 INTERNATIONAL CONFERENCES

- 1) Generation of Pitman Shorthand Language Symbols for Consonant-Vowel (CV) from Spoken English Language: An approach based on Linear Predictive Coefficients. Proc of ICSCI-2004, International Conference on Systemics, Cybernetics, Informatics, Hyderabad.
- 2) Linear Predictive Coefficient based approach for generation of Pitman Shorthand Language Characters from Spoken English Language, International Conference on Speech Processing, New Delhi.
- 3) High Speed FPGA Implementation of FIR Lattice Structures, International Conference on Cognition and Recognition-2008, PES College of Engineering, Mandya.
- 4) Image Compression using Neural Network, International Conference on Cognition and Recognition-2008, PES College of Engineering, Mandya.
- 5) Content Based Image Retrieval using Query based Methods, International Conference on Content based Image Retrieval, PES Institute of Technology, Bangalore, 16th July to 18th July 2008, pp 27-29.

- 6) Degraded Character Recognition based on gradient Pattern, International Conference on Digital Image Processing, Singapore 26th to 28th February 2010.
- 7) Single Moving Object Detection and Tracking based on GMM, 2010 International Conference on Artificial Intelligence and Pattern Recognition (AIPR-10), Orlando, FL, USA, July 12-14, 2010, PP 83-88.
- 8) Recognition of Machine Printed Broken Characters based on Gradient Pattern and its Spatial Relationship, 3rd IEEE ICCSIT 2010, Chengdu, China, July 9-11, 2010.
- 9) Automatic Seamless Image Mosaicing: An Approach based on Quad Tree Technique, World Congress on Engineering 2010 (WCE-2010), London, UK, 30th June to 2nd July 2010.
- 10) Color Image Enhancement using Multiscale Retinex with Modified Color Restoration Technique, Emerging Applications for Information Technology (EAIT2011), February 2011, Kolkata, India.
- 11) A Novel FPGA Implementation of Adaptive Rank Order Filter for Image Noise Removal, International Conference on Signal Acquisition and Processing (ICSAP2011), February 2011, Singapore.
- 12) Adaptive Color Image Enhancement based on Geometric Mean Filter: International Conference on Communication, Computing and Security (ICCCS2011), February 2011, NIT, Rourkela, India.
- 13) Automatic detection and tracking of moving objects in complex environments for video surveillance applications, 3rd International Conference on Electronics Computer Technology - ICECT 2011, April 2011, Kanyakumari, India.
- 14) Face Detection in color Images using skin color model algorithm based on skin color information, 3rd International Conference on Electronics Computer Technology - ICECT 2011, April 2011, Kanyakumari, India.
- 15) A Novel FPGA Implementation of Adaptive Color Image Enhancement based on HSV Color Space, International Conference on Electronics Computer Technology (ICECT 2011), Kanyakumari, India, 8 - 10 April, 2011, pp. 162-169.
- 16) Thought Translation System A Brain Computer Interfacing Application to Elicit the Needs of Physically Locked -in Patients, International Conference on Innovative Science & Engineering Technology, Rajkot, India, 8th to 9th April 2011.
- 17) A Novel Reconfigurable Architecture for Enhancing Color Image Based on Adaptive Saturation Feedback, in Springer "International Conference on

Advanced Information and Mobile Communication (AIM 2011)", pp. 162-169, Nagpur, Maharashtra, India, April 21-22, 2011.

- 18) IAS Intelligent attendance System at Conference on "Evolutionary Trends in Information Technology" CETIT-2011 held at VTU from 20th to 22nd May 2011.
- 19) Scale Weight Selection for Feature Extraction Using Complex Wavelets: A Framework, International Conference on Image Information Processing, Jaypee University of Information Technology, Wagnaghat, Shimla, Himachal Pradesh, Nov 2011.
- 20) An Efficient Metric for Evaluating the Quality of the Color Image Enhancement, Indian International Conference on Artificial Intelligence (IICAI2011)", SIT, Tumkur, India, 14-16 Dec, 2011.
- 21) Mammographic Image Enhancement using Modified Mathematical Morphology and Bi-orthogonal Wavelet, ITME - 2011, International Symposium, December 2011, China.
- 22) "Automatic Face Detection and Recognition in a Crowded Scenario" International Conference on Data Engineering and Communication Systems, RNSIT, Vol. 2, Page No.247-251, December 2011.
- 23) A particle swarm optimization method for tuning the parameters of Multiscale Retinex based color image enhancement, Proceedings: ACM International Conference on Advances in Computing, Communications and Informatics (ICACCI-2012), Page No: 721-727, 2012.
- 24) "LoG-DEM: Log Gabor Filter and Dominant Eigen Map Approaches for Moving Object Detection and Tracking", ISDA 2012, 12th International Conference on Intelligent Systems Design and Applications, Kochi, India, Nov 2012.
- 25) "ISSR: Intensity Slicing and Spatial Resolution Approaches for Moving Object Detection and Tracking under Litter Background", ICAC3, 3rd International Conference on Advances in Computing, Communication and Control 2013, Mumbai, India, January 2013.
- 26) Design of Novel Algorithm and Architecture for Gaussian Based Color Image Enhancement System for Real Time Applications, ICAC3, 3rd International Conference on Advances in Computing, Communication and Control 2013, Mumbai, India, January 2013.
- 27) "Ten-LoPP: Tensor Locality Preserving Projections Approach for Moving Object Detection and Tracking", IC2IT 2013, 9th International Conference on Computing and Information Technology, Bangkok, May 9-10, 2013.

- 28) "Speckle Noise Reduction in Breast Ultrasound Images for Segmentation of Region Of Interest (ROI) Using Discrete Wavelets", Proceedings of 2013 International Symposium on IT in Medicine & Education (ITME 2013) Xining during July 19-21, 2013 (Accepted).
- 29) "Image Enhancement for Detection of Diagnostic Signs in Mammograms using Bi-Orthogonal Wavelets", IPCV'13: The 17th International Conference on Image Processing, Computer Vision, & Pattern Recognition, July 22-25, 2013, Las Vegas, USA(Accepted).
- 30) "Natural Color Image Enhancement based on Modified Multiscale Retinex Algorithm and Performance Evaluation using Wavelet Energy", Second International Symposium on Intelligent Informatics (ISI'13), 23 - 24 August 2013, SJCE, Mysore, India (Accepted).
- 31) "Multiple Moving Object Recognitions in video based on Log Gabor-PCA Approach", Second International Symposium on Intelligent Informatics (ISI'13), 23 - 24 August 2013, SJCE, Mysore, India (Accepted).
- 32) "Design and FPGA Implementation of an 2D Gaussian Surround Function with Reduced On-Chip Memory Utilization", Second International Conference on Advances in Computing, Communications and Informatics (ICACCI-2013), 22 - 25 August 2013, SJCE, Mysore, India (Accepted).
- 33) "Multi-Oriented Video Text Detection and Extraction using DCT feature extraction and projection based rotation calculation", Second International Conference on Advances in Computing, Communications and Informatics (ICACCI-2013), 22 - 25 August 2013, SJCE, Mysore, India (Accepted).
- 34) "Finger Knuckle Print Recognition Based on Gabor feature and KPCA+LDA", International Conference on Emerging Trends in Communication, Control, Signal Processing and Computer Applications 2013, Bangalore.
- 35) "Abnormal Event Detection in a Crowded Scene", International Conference on Emerging Trends in Communication, Control, Signal Processing and Computer Applications 2013, Bangalore.
- 36) "An Effective Approach Towards Video Text Recognition", Springer Publication, International Symposium on Signal Processing and Intelligent Recognition Systems (SIRS- 2014), March 13-15, 2014 Technopark, Trivandrum, India.
- 37) "Curved Video Text Detection and Extraction : LU Decomposition and Maximal-H Transform based method ", International Conference on Frontiers of

Intelligent Computing: Theory and Applications(FICTA-2014),Springer AISC series, Bhuvaneshwar, Orissa.

- 38) “Automatic Segmentation of Lung Pleura Based on Curvature Analysis”, XIII International Conference on Bioinformatics, Computational Biology and Biomedical Engineering, Jan 30 2015, Dubai.
- 39) “Automatic Extraction of Lung Regions using Curve Analysis for the Detection of Lung Cancer in CT scan”, International Conference on Emerging Research in Computing, Information, Communication and Applications (ERCICA-15), Springer, August 2015.
- 40) “A Novel Approach Towards Detection and Identification of Stages of Breast Cancer” has been accepted for Third international Conference on Advanced Computing, Networking and Informatics(ICACNI’15), KIIT university, Orissa, India. The paper would be published in Smart Innovation, Systems and Technologies, Springer.
- 41) “Feature based Classification and Early Detection of Breast Cancer in mammogram Images” has been presented in the International Conference on Emerging trends in Engineering and Technology held at Bengaluru, India on 17th May 2015.
- 42) “Identification of Stages of Malignant Tumor in MRM Images using Level set Algorithm and Textural Analysis” has been presented in Third International Conference on Information System Design and Intelligent Applications organized by ANITS during Jan 8-9, 2016 at Vishakapatnam, India.
- 43) “Comparative Study of Four Novel Approaches Developed for Early Detection of Breast Cancer and its Stages” has been presented in International Conference on Inventive Computing and Informatics (ICICI 2017), organized by Springer Publication, International Symposium on Signal Processing and Intelligent Recognition Systems (SIRS- 2014), March 13-15, 2014 Technopark, Trivandrum, India. Ranganathan Engineering College (REC) on 23-24, November 2017 at Coimbatore, India. Paper published in IEEE Xplore.
- 44) “Four Novel Approaches for Detection of region of Interest in mammograms-A Comparative study” has been presented in International Conference on Intelligent Sustainable System (ICISS 2017) organized by SCAD Institute of

Technology on 7-8 December 2017 at Palladam, India. Paper published in IEEE Xplore.

10.3 NATIONAL CONFERENCES

- 1) Generation of Pitman Shorthand Language Symbol for Grammalogues, Diphthongs and Punctuations from spoken English Language Text: An Approach based on Mel Frequency Cepstral Coefficients and Vector Quantization, *Recent Trends in Information Communication Technology and Applications - Proc of RTICTA-2002*, Department of Computer Science, North Maharashtra University, Jalgaon.
- 2) Generation of Pitman Shorthand Symbols for Consonants and Vowels from Spoken English Language Text: An approach based on Discrete Wavelet Transform and Dynamic Time Warping Techniques. *Proc of NCDAR*, Mandya, July 2003.
- 3) Generation of Pitman Shorthand Language Symbol for Consonants and Vowels from Spoken English Language Text: An Approach based on Mel Frequency Cepstral Coefficients and Vector Quantization. *Proc of NWMISC-2003*, Chennai.
- 4) Segmentation of Spoken English Word to its Consonants and Vowels to generate Pitman Shorthand Language Symbol: A Wavelet Transform and Symbolic Data Approach. *Proc of CSI-2003*, New Delhi.
- 5) Generation of Pitman Shorthand Language Symbol for Diphthongs Grammalogues and Punctuation from Spoken English Language Text: An Approach based on Discrete Wavelet Transform and Dynamic Time Warping Technique. *Proc of WITSA-2003*, Jamia Milia Islamia University, New Delhi, March 2003.
- 6) A Comparative Study of Mel Frequency Cepstral Coefficients (MFCC) and Discrete Wavelet Transform (DWT) Techniques for generation of Pitman Shorthand Language Symbols from Spoken English Language Text. *Proc of NACIPAN-2004*, National Engineering College, Kovillpatti, June 2004.
- 7) Generation of Pitman Shorthand Characters from Spoken English Language Text: An approach based on Discrete Wavelet Transform and Dynamic Time Warping Techniques, *Proc of WCVGIP-2004*, Madhav Institute of Technology and Science, Gwalior (M.P).

- 8) Generation of Pitman Shorthand Language Symbol for Grammalogues, Diphthongs and Punctuations from spoken English Language Text: An approach based on Linear Predictive Coefficients.IT-2004 Proc of National Conference on Information Technology, 2004, DAV College, Amritsar (Punjab).
- 9) Secure Data Hiding using Color Level Modification Stegenographic technique, National Conference on Recent Trends in Electronics and Communication, S J B Institute of Technology, Bangalore, 4th May 2007.
- 10) Classification of EEG Signals using Different Feature Extraction Techniques to Aid the Communication Facilities for Physically Locked-in Patients at “National Conference on Recent Trends in Computing Technology” [RTCT-2011] held at R.V. College of Engineering, on 29th & 30th April 2011.
- 11) Sensor Based Bomb Diffusion using Robot at “National Conference on Computers, Communication and Controls-11” [N4C-11] held at R.V. College of Engineering on 29th and 30th of April 2011.
- 12) Wireless Robotic Object displacer at “National Conference on Recent Trends in Computing Technology [RTCT-2011]” held at R.V. College of Engineering, on 29th & 30th April 2011.
- 13) Automatic Segmentation of Lung Regions Based on Active Contour and Morphological Operators”, National Conference on Advances in Computing Technology (NCCT 2015), April 2015.

11. CADENCE DESIGN CONTEST 2005 - 2006

As a Project Advisor motivated group of UG students to participate in Cadence Design Contest. The proposal was accepted and used smart temperature sensor at the front end, senses temperature with ± 0.1 accuracy. The project implementation titled “**Smart Temperature Sensor using CMOS Technology**” has ranked in the **top10** on All-India Level among 300 entries including IIT’s and IISc according to the communication from Cadence Design Systems (I) Pvt. Ltd.



12. MOTOROLA SCHOLAR PROGRAM - 07

Motivated a group of UG students to participate in the Motorola Scholar Program as a Project Supervisor sponsored by Motorola Foundation and conducted by the Foundation for Advancement of Education and Research (f a e r) held at Chennai on 6th June 2007. The Project Proposal “Smart Phones- An Advanced Approach” was accepted and has been successfully completed. The main objective of the Proposed Project is to provide better security for Mobiles.

13. HONEYWELL PROJECT CONTEST- 08

As Project supervisor, motivated MTech Student Mr Pralhad G Kulkarni for the project titled “**eMatrix Engineering Central Enabler**” and has received Spot Award for Outstanding contribution in building a highly user friendly and quick Search named **eZee Search** for Transportation Systems. eZee Search saves around 10 mins each time user searches in PDM.

14. KSHITIJ 2009 – ROBOTIX COMPETITION

VENUE –IIT KHARAGPUR

EVENT NAME- 12 DOORS DOWN

As a Project Supervisor motivated group of students to participate in the Robotix Competition. The team of Information Science & Engineering, Dayananda Sagar College of Engineering has ranked in top 3 on All India level among 180 entries. The Problem Statement is “the man lost in the dungeons ... the rescue commando... together they search their way out...” and the Students made one autonomous and one manual robot such that the manual bot guides the autonomous bot out of a square grid of cells, covering a specified number of checkpoints, and reach the end point.

15. SUN CODE FOR FREEDOM CONTEST – UNIVERSITY PROGRAM

As a Project Supervisor Motivated group of UG Students to participate in the Sun Code for Freedom Contest. The Contest was organized by SUN Microsystems, a



front runner in supporting free and open source software and one of the largest contributors to this movement. The Project implementation titled “ Bluetooth Scatternet” has secured Third Prize on All India level among 500 accepted projects including IIT’s according to the website of SUN CODE FOR FREEDOM CONTEST.

16. SPARK THE RISE – MAHENDRA RISE

As a Project Supervisor Motivated couple of UG Students to participate in the “Spark the Rise Contest” Organized by Mahendra Rise. The Students have been successfully selected on the second round of voting by the Tycoon MAHENDRA SPARK THE RISE. It has been a long journey from 5000 projects across the country to top 300 by the jury and is the only Engineering College in Bangalore City to reach this destination. It is the platform to propel Innovation, Entrepreneurship and positive change in India.

17. IBM CENTRE OF EXCELLENCE

Had Setup IBM Centre of Excellence and worked as a **SPOC** (Single Point of Contact) for the Department of Information Science & Engineering, Dayananda Sagar College of Engineering with the aim of providing world- class skills to students on IBM Technologies.

18. UNISYS INNOVATION LAB

Had set up Unisys Innovation Lab (UIL) and working as SPOC (Single Point of Contact) Through this initiative, Technology Industry brought closer to students and have empowered research-oriented minds across the country to play a more active role in shaping tomorrow’s technologies. UIL offers students across the country the unique opportunity to work on Unisys technologies and resources to bring to life innovative ideas and concepts.

19. DST FUNDED PROJECTS

- Mr. Gaurav Sinha and Mr. Basuraj Agrawal have been awarded 1 Lakh Rupees towards their Project “**TRACKLAPS**” by Ministry of Science & Technology, Department of Science & Technology Bhavan, Mehrauli Road, New Delhi.
Mentor: Dr. M. Ravishankar, Professor & Head, Information Science & Engineering, Dayananda Sagar College of Engineering.
- Mr. Shreyas and Miss Sahana have been awarded 1 Lakh Rupees towards their Project “**e-CAR**” by Ministry of Science & Technology, Department of Science & Technology Bhavan, Mehrauli Road, New Delhi.
Mentor: Dr. M. Ravishankar, Professor & Head, Information Science & Engineering, Dayananda Sagar College of Engineering.
- Mr. Avinash, Mr. Sudiptha Saha and Miss Anusha have been awarded 1 Lakh Rupees towards their Project “**AMBULANCE TRACKING SYSTEM**” by Ministry of Science & Technology, Department of Science & Technology Bhavan, Mehrauli Road, New Delhi.
Mentor: Dr. M. Ravishankar, Professor & Head, Information Science & Engineering, Dayananda Sagar College of Engineering.

20. ADMINISTRATIVE ASSISTANCE

1. As a Principal, Co-ordinated process of National Board of Accreditation (NBA), 2020 for Five Departments.
2. As a Principal, coordinated process of National Assessment Accreditation Council (NAAC), 2019.
3. Coordinated the 2007 Accreditation Process of the Department of Information Science & Engineering, Dayananda Sagar College of Engineering and prepared accreditation reports and presentation material- Resulted in Department is accredited for 3 years.
4. Worked as Chief Superintendent for Theory and Practical Exams of Visvesvaraya Technological University in Dayananda Sagar College of Engineering.

5. Assisted the administration in preparing the documentation for Accreditation by NBA during 2006.
6. Served as Dean (Academics) for one year in Acharya Institute of Technology, Bangalore.
7. Coordinated the conduction of Crash Courses in C/C++ for students of the various departments in the college.
8. Substantially assisted the Principal of Acharya Institute of Technology, Bangalore in organizing the AICTE Sponsored Staff Development Programme on Recent Trends in Pedagogy held in January 2006.

21. UNIVERSITY ASSIGNMENTS & BOARD MEMBERSHIPS

21.1 VISVESVARAYA TECHNOLOGICAL UNIVERSITY ASSIGNMENTS & BOARD MEMBERSHIP

1. Member of Local Inspection Committee (LIC) – VTU.
2. Chairman, Board of Examiner in CSE/ISE Board 2016-17
3. Member of Board of Examiner in CSE/ISE Board 2013-14.
4. Member of Board of Examiner in CSE/ISE Board (Co-opted)- 2012-13.
5. Chief Coordinator, VTU Valuation Centre, VTU Regional Office, 2015.
6. Chief Coordinator, VTU Valuation Centre, VTU Regional Office, 2016
7. Co-ordinator and Deputy Chief Superintendent – VTU Ph.D Course work Valuation at DSCE, Bangalore.
8. Chief Co-ordinator – VTU Valuation Centre, Dayanada Sagar College of Engineering, Bangalore, 2014

21.2 UNIVERSITY OF MYSORE ASSIGNMENTS & BOARD

MEMBERSHIPS

1. Member of Board of Examiner in MS (Tech) Programme, University of Mysore, Mysore.



21.3 KARNATAKA STATE OPEN UNIVERSITY BOARD

MEMBERSHIPS

1. Member of Board of Examiner in Information Technology Programme, Karnataka State Open University, Manasagangotri, Mysore.

21.4 AUTONOMOUS INSTITUTE BOARD MEMBERSHIPS

1. Member of Board of Examiner in CSE/ISE Board, Siddaganga Institute of Technology, Tumkur.
2. Member of Board of Studies in ISE Board, Dr. Ambedkar Institute of Technology, Bangalore.

22. RECENT CONFERENCES & WORKSHOPS ATTENDED

22.1 PARTICIPATED

1. *Workshop on Finalization of UG Syllabus of VTU, 26th February, 2000 at MCE, Hassan.*
2. *Workshop for Finalization for Basic Electronics Syllabus on 11th June, 2002 at BMS College of Engineering, Bangalore.*
3. *ISTE-AICTE Short-Term course on “Document Analysis and Recognition” (NCDAR- 2002) organized by PESCE, Mandya, Karnataka from 15th July to 27th July 2002.*
4. *National Conference on Recent Trends in Information and Communication Technology organized by Department of Computer Science, North Maharashtra University, Jalgaon held during 10th October to 11th October 2002.*
5. *National Workshop on IT Services and Applications organized by Centre for Information Technology & Department of Computer Science, Jamia Millia Islamia (A Central University), New Delhi held during 27th February to 28th February 2003.*



6. *National Conference on Document Analysis and Recognition (NCDAR 2003)* organized by PESCE Mandya, from 11th July to 12th July 2003
7. *National Workshop on Road to Ph.D (NWRP-03)* organized by RMK Engineering College , Kavaraipettai, Tamil Nadu on 8th August 2003.
8. *National Workshop on “Machine Intelligence using Soft Computing (NWMISC-03)”* organized by RMK Engineering College, Kavaraipettai, TamilNadu on 9th August 2003.
9. *International Conference IPSCON-2003* held at Mysore Medical College, Mysore, Karnataka, India from Dec 17th to Dec 19th 2003.
10. *56th Annual National Conference of Indian Psychiatric Society (ANCIPS-2004)* from 8th January 2004 to 11th January 2004, organized by J S S Medical College & Hospital, Mysore.
11. *Workshop on “Windows Embedded Hands-on-Lab”* organized by Microsoft Corporation (India) Pvt.Ltd on 18th March 2004.
12. *International Conference on “Cognition and Recognition”(COGREC-2008)*from April 10th 2008 to 12th April 2008, organized by Department of Information Science & Engineering PES College of Engineering, Mandya.
13. *Workshop on “ Empowered Leadership Program- Train the Trainers”* from 1st December to 3rd December 2008, organized by Centre for Innovation & Leadership , Dayananda Sagar Institutions, Bangalore.
14. *Workshop on “Multi core Faculty Training Program”* from 10th to 11th December 2008 organized by INTEL, Bangalore.
15. *Two day National Conference on “Leveraging Innovation for Knowledge Economy”* from 19th December to 20th December 2009 organized by National Research Development Corporation(NRDC) at JN Tata Auditorium, Bangalore.
16. *International Conference on Digital Image Processing -2010 (ICDIP-10)* held at Singapore from 26th February 2010 to 28th February 2010.

22.2 ORGANIZED

1. National Level Workshop on Advanced VLSI Technology organized from 15th May 2006 to 19th May 2006 as a **Chief Co-ordinator**
2. Two day State Level Paper Presentation (Technocracy -06) organized from 6th November to 7th November 2006 as **Chief Co-ordinator**
3. AICTE Sponsored Staff development Programme on VLSI System Design for DSP Applications from 17th January 2007 to 31st January 2007 as **Co-ordinator.**
4. *Short Term Course* on Field Programmable Gate Array (FPGA) from 4th September to 7th October 2006 as **Chief Co-ordinator.**
5. Two day National Workshop on **Image Processing and Computer Vision** organized from 16th October to 17th October 2008 as **Coordinator.**
6. Three day National Conference on **Information Technology Trends in Engineering Applications** from 19th March to 21st March 2009 as **Session Chief Convener.**
7. AICTE Sponsored **“National Workshop on Image Processing and Computer Vision”** from 2/6/2010 to 4/6/2010 as **Coordinator.**
8. Seminar on **“Software Product Development and Testing”** on 31st October 2012 as **General Chair.**

23. LECTURES, PANEL DISCUSSIONS, SESSION CHAIR & INVITED TALKS WITH MULTIMEDIA PRESENTATIONS

1. Invited Panelist for the panel *“Innovative Talent Search”* held at GSS Institute of Technology for Women, Mysore on 22nd April 2006.
2. *Embedded Systems* during Refresher Course in Information Technology organized by Academic Staff College, Mysore on 24th February 2007.

3. *Speech Recognition* with demo during ISTE-AICTE STTP on “*Cognition and Recognition*” conducted by Department of Computer Science, PES College of Engineering, Mandya on 16th March 2007.
4. Invited *Session Chair* at National Conference on Recent Trends in Electronics and Communication organized by Department of Electronics & Communication, S J B Institute of Technology on 4th May 2007.
5. Delivered lecture on “Fundamentals of Speech Recognition”, S J B Institute of Technology, Bangalore on 9th November 2007.
6. Invited *Session Chair* at National Conference on Recent Trends in Computer Science organized by Department of Computer Science & Engineering, S J B Institute of Technology on 26th March 2008.
7. Delivered a talk on “Speech Recognition in Artificial Intelligence” in STTP Programme on “The Role of Artificial Intelligence in Engineering Applications” organized by Adichunchanagiri Institute of Technology, Chikmagalur on 18th June 2008.
8. Delivered lecture on “Fundamentals of Digital Image Processing and Computer Vision”, S J B Institute of Technology, Bangalore on 25th September 2008.
9. Invited *Session Chair* at National Conference on Recent Trends in Computers, Communication & Information Technology (RTCCI-09) under ISTE, Dr.T.Thimmaiah Institute of Technology, KGF on 6th March 2009.
10. Invited *Session Chair* at National Conference on Recent Trends in Computer Science organized by Department of Electronics & Communication Engineering, S J B Institute of Technology on 4th April 2009.
11. Invited *Session Chair* at State Level Students Technical Symposium “Electronica-09” organized by Department of Electronics & Communication Engineering, Don Bosco Institute of Technology, Bangalore on 5th May 2009.
12. Invited Advisory Committee member for One day Technical Symposium on “Artificial Intelligence and Software Engineering (AISE-2009) organized by

- Department of Information Science & Engineering, New Horizon College of Engineering, Bangalore on 22nd May, 2009.
13. Invited Advisory Committee member for two day Workshop on “Embedded Computing Systems” organized by Computer Science & Engineering/Information Science & Engineering, Vivekananda Institute of Technology, Bangalore on 27th and 28th July 2009.
 14. Invited Advisory Committee member for One day Technical Symposium on “Artificial Intelligence and Software Engineering (AISE-2009) organized by Department of Information Science & Engineering, New Horizon College of Engineering, Bangalore on 9th October, 2009.
 15. Invited Session Chair for International Conference on Digital Image Processing (ICDIP-2010) held at Singapore from 26th February 2010 to 28th February 2010.
 16. Invited Session Chair at National Level Students Technical Symposium “REVAMP-2010” organized by Department of Electronics & Communication Engineering, Reva Institute of Technology, Bangalore from 25th March 2010 to 27th March 2010.
 17. Delivered Lecture on “Human Computer Interaction” at ISTE Sponsored Faculty Developed Programme on Research Methods in Computer Human Interaction for Management of Information Technology during 26th to 30th July 2010.
 18. Invited Session Chair at National Level Conference on Artificial Intelligence and Software Engineering (AISE-2010) on 29th October 2010 at New Horizon College of Engineering, Bangalore, India.
 19. Invited Session Chair at National Conference on Communication & Computing 2011, Acharya Institute of Technology, Bangalore.
 20. Invited Session Chair at State Level Technical Paper Presentation Contest 2012, Sapthagiri College of Engineering, Bangalore
 21. Invited Session Chair at National Conference at Acharya Institute of Technology, 2013

22. Invited Session Chair at National Conference on Emerging Trends in Engineering & Technology, May11, 2013, Sapthagiri College of Engineering.
23. National Conference on Recent Advances in Electronic and Communication Engineering (NCRAECE-2013) RNSIT, 3rd May, 2013.
24. National Conference on National Conference on Recent Trends in Electronics & Communication, SJBIT, 4th May 2013.
25. Delivered Lecture on “Outcome based Education”, to the Teaching Staff of Shaikh College of Engineering & Technology, Belagavi, 2018.
26. Delivered Lecture on “Outcome based Education”, to the Teaching Staff of GMIT Davangere, 2019.

PERSONAL DETAILS

Date of Birth : 30th DECEMBER 1974.

Father's Name : C.MUNICHOWDAPPA

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