


## Faculty Profile

<b>Name of Faculty</b>	Dr. P. A. VIJAYA	
<b>Department</b>	Electronics and Communication Engineering	
<b>Qualification</b>	B.E., M.E., Ph.D.	
<b>Designation</b>	Professor & Head	
<b>Area of specialization</b>	Pattern Recognition and Image Processing, Embedded System Design and Operating System.	
<b>Date of Joining BNMIT</b>	1-2-2013	
<b>Nature of Association (Regular/Contractual/Adjunct)</b>	Regular	
<b>e-mail</b>	<a href="mailto:hodece@bnmit.in">hodece@bnmit.in</a> , <a href="mailto:pavmkv@gmail.com">pavmkv@gmail.com</a>	
<b>No. of years of Experience</b>	Total = 32 years (Teaching, Research and Administration)	

### Academic Qualifications

- **Ph.D. (2005)**, Indian Institute of Science, Bangalore, India.
- **M.E. (1991)**, Indian Institute of Science, Bangalore, India.
- **B.E.in Electronics & Communication(1985)**,MCE, Hassan, UOM, India.

#### Other Degrees:

- **MBA in Information Technology(2016)**, SMUDE, Bangalore Center, India.
- **PGDCA (1987)**, MCE, Hassan, UOM, India.

### Working Experience Details

- Professor & HOD, Dept. of ECE, BNMIT, Bangalore, India, (23-1-2016 – Till date).
- Professor, Dept. of ECE, BNMIT, Bangalore, India, (1-2-2013 to 22-1-2016).
- Professor & HOD, Dept. of ECE, MCE, Hassan, India, (1-4-2011 to 31-1-2013).
- Professor, Dept. of ECE, MCE, Hassan, India, (17-12-2005 to 31-3-2011).
- Asst. Professor, Dept. of ECE, MCE, Hassan, India, (6-4-1993 to 16-12-2005).
- Lecturer (Regular), Dept. of ECE, MCE, Hassan, India, (18-6-1986 to 5-4-1993).
- Lecturer (Contractual), Dept. of ECE, MCE, Hassan, India, (1-1-1986 to 17-6-1986).

### Subjects taught

Microprocessors, Microcontrollers, Basic Electronics, Pattern Recognition, Image Processing, Logic Design, Operating Systems, Advanced Computer Architecture, Embedded System Design, Real Time Operating System, VLSI Design, Network Protocol Design, Computer Networks and Advanced Embedded System.

## Research Experience Details:

### Ph.D:

Thesis Title: “Efficient Hierarchical Clustering Techniques for Pattern Classification”.

This research work was done under the guidance of Dr. M. Narasimha Murty and Dr. D. K. Subramanian at IISc. Bangalore. In this research work, efficient hierarchical clustering techniques were designed for large data sets for increasing the classification accuracy and reducing the testing time for different types of patterns. Algorithms were designed using C language and also MATLAB. Different soft computing techniques such as neural networks, support vector machine, decision tree, K-means etc. were studied and used in the research work. Algorithms designed were used on character recognition data sets, protein sequence data sets and biometric data sets. Based on the research work done during Ph.D programme, papers were published in 4 reputed international journals and 6 international conferences.

### Research Supervision:

Sl. No.	Student Name with Affiliation	Degree Registered	Title of Research Topic	Status	Research Centre and University
1.	Mrs. M.C Padma, PESCE, Mandya	Ph.D (4MC06PEN04)	Novel Techniques for Script Identification in Multilingual Documents	Awarded in 2011	Dept of ECE, MCE, Hassan, VTU, Belgaum
2.	Mrs. Sheela S V, BMSCE, B'lore	Ph.D (4MC06PEN02)	Efficient and Novel Techniques for Eye Gaze Tracking and Recognition	Awarded in 2013	Dept of ECE, MCE, Hassan, VTU, Belgaum
3.	Mr. Shivakumar G., MCE, Hassan	Ph.D (4MC06PEN03)	Analysis of Emotions by Facial Expression Recognition and Physiological Parameters Using Artificial Neural Network	Awarded in 2015	Dept of ECE, MCE, Hassan, VTU, Belgaum
4.	Mr. Manjunath K.C, Chitradurga	M.Sc(Engg) (4MC12MEN01)	Computer Vision Based Industrial Automation Using Neuro Fuzzy Algorithms	Awarded in 2017	Dept of ECE, MCE, Hassan, VTU, Belgaum
5.	Mrs. Chaitra N, Dept of ECE, BNMIT, Bangalore	Ph.D (1BG13PEN02)	Recognition of Autistic Individuals Using Pattern Analysis Techniques on Brain Imaging Data	Comprehensive Viva Exam completed	Dept of ECE, BNMIT, Bangalore, VTU, Belgaum
6.	Mrs. Priya R Sankpal, Dept of ECE, BNMIT, Bangalore	Ph.D (1BG13PEN04)	Encryption of Nested Watermarked images for secured transmission	Awaiting Comprehensive Viva Exam	Dept of ECE, BNMIT, Bangalore, VTU, Belgaum
7.	Mrs. Ashwini S Savanth, Dept of ECE, BNMIT, Bangalore	Ph.D (1BG15PEJ01)	Pattern Classification and image processing techniques on brain fMRI data for the analysis of meditation effects	Course work completed	Dept of ECE, BNMIT, Bangalore, VTU, Belgaum
8.	Mrs. Keerti Kulkarni, Dept of ECE, BNMIT, Bangalore	Ph.D (1BG17PEA05)	Analysis of Land Use and Land Cover Change Using Remotely Sensed Images	Course work completed	Dept of ECE, BNMIT, Bangalore, VTU, Belgaum
9.	Mrs. Roopa K Swamy, Dept of ECE, SJBIT, Bangalore	Ph.D (1BG17PEA04)	A Configurable Hardware Scheduler for Energy Efficient Mixed Criticality System	Course work to be completed	Dept of ECE, BNMIT, Bangalore, VTU, Belgaum
10.	Mr. M. Sreenath, Dept of ECE, SAU, Tirupathi	Ph.D (1BG17PEA01)	Amalgamate scheduling algorithms for real time tasks and effective utilization of multiprocessors using MBATS	Course work to be completed	Dept of ECE, BNMIT, Bangalore, VTU, Belgaum

### **Academic Positions and other Responsibilities (University Level):**

1. BOS Member (EC/TE), VTU, Belgaum, 2016-2019.
2. BOE Chairman (EC/TE), VTU, Belgaum, 2014-2015.
3. BOE Member (EC/TE), VTU, Belgaum, 2010-11, 2012-13
4. AC Member, PESCE, Mandya, 2017 - till date.
5. BOS Member, Dept. of TCE, RVCE, Bangalore, 2016 - till date.
6. BOS Member, Dept. of EI, Dr. AIT, Bangalore, 2016 - till date
7. Member, Local Inquiry Committee, VTU, Belgaum, 2013 to 2018.
8. Member, Ph.D. synopsis scrutiny committee, VTU, 2016 – till date.
9. Deputy Chief Superintendent (External) at BIT, Bangalore, 15 days during June-July 2014 for the conduction of examinations of VTU, Belgaum.

### **Academic Positions and Other Responsibilities (Institute Level / Department Level):**

- 1 **Program Coordinator**, NBA, Dept. of ECE, BNMIT (2016- till date).
- 2 **NAAC** - Chief Co-ordinator for Criterion 1 (2016-2017).
- 3 **Member**, Anti-Ragging Committee, BNMIT (2018 - till date).
- 4 **Chief Editor** for the Dept. News Letter – Electronica (2016 – till date).
- 5 **PG Co-ordinator**, Dept of ECE, BNMIT, 2014-16
- 6 **Convener**, FDP on ARM Cortex, 2015-16
- 7 **Chief Exam Coordinator**, BNMIT, 2014-15.
- 8 **Tutorial Sessions Co-ordinator**, International Conference – VCASAN, July 2013, Dept. of ECE, BNMIT, Bangalore.

### **Experimental/ Computational/ Any other Skills:**

- Software skills in Assembly language, Embedded C, MATLAB and JAVA Programming. Operating Systems– Windows and Linux.
- Interfacing of external hardware devices to controllers/processors.

### **Awards/ Achievements/Recognitions:**

- Merit Scholarship, GoK, from 1979 to 1985.
- 8<sup>th</sup> Rank in B.E. (ECE), UOM, 1985.
- Biography published in Who's who in Science and Engineering - 2005, Who's who in the world-2006 and Who's who in Asia – 2006.
- Best Project Guide, 2011-12
- Appreciation Letters Received from BNMIT Management for scoring more than 90% in Staff Appraisal for the academic years 2013-14, 2014-15 and 2015-16.

### **Professional Memberships:**

- Life Member, Indian Society for Technical Education – LM 1791
- IEEE, Membership Number – 90497912
- IACSIT, Senior Member, Membership. No. 80331655
- Life Member, Karnataka Rajya Vijnana Parishath (KRVP)

### **Workshops /Seminars Organized:**

**(Total = 16, from the academic year 1990. Details from 2013 are provided below.)**

1. Program Chair, International Conference on Emerging Trends in Engineering and Technology (ICET-2014), Pai Vista Hotel, Bangalore, 18-5-2014.
2. Convener, FDP on Electronic Trends in Communication, Dept. of ECE, BNMIT, Bangalore, 19<sup>th</sup>-24<sup>th</sup>Jan 2015.
3. President and Program Chair, International Conference on Emerging Trends in Engineering and Technology (ICET-2015), Pai Vista Hotel, Bangalore, 21-6-2015.
4. Convener, FDP on ARM Cortex M3, Dept. of ECE, BNMIT, Bangalore, 8<sup>th</sup>-14<sup>th</sup>Jan 2016.
5. President and Program Chair, International Conference on Emerging Trends in Engineering and Technology (ICET-2016), Pai Vista Hotel, Bangalore, 8<sup>th</sup> May 2016.
6. Organizing Chair, FDP on Computer Networks and Wireless Communication, BNMIT, Bangalore, 11<sup>th</sup>-16<sup>th</sup> July 2016
7. Organizing Chair, FDP on Physical Design Challenges in DSM Node VLSI Systems, BNMIT, Bangalore, 16<sup>th</sup>-21<sup>st</sup> Jan 2017
8. Organizing Chair, FDP on MSP430 Microcontroller and its Applications, BNMIT, Bangalore, 31<sup>st</sup> July to 5<sup>th</sup> Aug 2017.

### **Research Publications:**

**Total Number of Paper Publications = 112 (from the academic year 1986)**

- International Journals - 53
- National Journals - 02
- International Conferences- 47
- National Conferences/ Workshops/Symposium – 10

**As on 11-8-2018, Information from Google Scholar:**

**Citation Index for Publications = 506, h-index = 13 and i10-index = 16**

### **I. International Journals:**

1. P. A. Vijaya, M. N. Murty and D. K. Subramanian, “Leaders-Subleaders: An efficient hierarchical clustering algorithm for large data sets”, Pattern Recognition Letters (Elsevier Journal), Vol 25, Issue 4, pages 503-511, Mar 2004.
2. P. A. Vijaya, M. N. Murty and D. K. Subramanian, “An efficient hierarchical clustering algorithm for protein sequences”, IJCSA (International Journal of Computer Science and Applications), Vol 1, Issue 2, pages 61-75, Nov 2004.

3. P. A. Vijaya, M. N. Murty and D. K. Subramanian, "Efficient bottom-up hybrid hierarchical clustering techniques for Protein sequence classification", *Journal of Pattern Recognition, Special Issue on Bioinformatics*, Editors: S. Mitra and W. Pedrycz, Vol 39, pages 2344-2355, 2006.
4. P. A. Vijaya, M. N. Murty and D. K. Subramanian, "Efficient Median Based Clustering and Classification Techniques for Protein Sequences", *Pattern Analysis and Applications (Springer Journal)*, Vol 9, pages 243-255, 2006.
5. M.C.Padma and P.A.Vijaya, "Language Identification of Kannada, Hindi and English Text Words through Visual Discriminating Features", *International Journal of Computational Intelligence Systems (IJCIS)*, ISSN (print): 1875-6891/ ISSN (on-line): 1875-6883, Editor-in-Chief: Prof. Da Ruan, Atlantis Press, Volume 1, Issue 2, pp. 116-126, May 2008.
6. G. Shivakumar and P. A. Vijaya, "Face Recognition Using Back Propagation Artificial Neural Network", *International Journal on Computer Engineering and Information Technology*, Vol 7, Issue no. 12 , pp. 10-18, Aug 2009
7. M.C.Padma and P.A.Vijaya, "Identification of Telugu, Devanagari and English Scripts Using Discriminating Features", *International Journal of Computer Science and Information Technology (IJCSIT)*, ISSN:0975-3826(online), 0975-4660 (Print), Academy and Industry Research Collaboration Center (AIRCC), Vol. 1, Number 2, pp.64-78, November 2009.
8. M.C.Padma and P.A.Vijaya, "A Fuzzy Rule Based Model for Automatic Script Identification from a Tri-lingual Document", *International Journal of Computing and Applications (IJCA)*, serial Publications, Vol. 4, No.2, , pp. 151-162, December 2009.
9. M.C.Padma and P.A.Vijaya, "Entropy Based Texture Features Useful for Automatic Script Identification", *International Journal of Computer Science and Engineering (IJCSE)*, Engineering Journal Publishers, Vol. 02, No.02, pp.115-120, Jan 2010.
10. M.C.Padma and P.A.Vijaya, "Script Identification of Text Words from a TriLingual Document", *International Journal of Image Processing (IJIP)*, ISSN (Online): 1985 – 2304, CSC Press, Computer Science Journals, Editor-in-Chief: Prof. Yu-Chen, Volume 4, Issue 1, pp. 35-52, March, 2010.
11. M.C.Padma and P.A.Vijaya, "Wavelet Packet Based Texture Features for Automatic Script Identification", *International Journal of Image Processing (IJIP)*, ISSN (Online): 1985 – 2304, CSC Press, Computer Science Journals, Editor-in-Chief: Prof. Yu-Chen, Volume 4, Issue 1, pp. 53 - 65, March 2010.
12. M.C.Padma and P.A.Vijaya, "Word Level Identification of Kannada, Hindi and English Scripts from a Trilingual Document", *International Journal of Computational Vision and Robotics*, ISSN (Online): 1752-914X, ISSN (Print): 1752-9131, Editor-in-Chief: Prof. Srikanta Patnaik, Inderscience Publishers, Volume 1, Number 2, pp. 218-235, 2010.
13. Sheela S V and P A Vijaya, "Iris Recognition Methods-Survey", *International Journal of Computer Applications*, Vol. 3, No. 5, pp. 19-25, June 2010.
14. Sheela S V and P A Vijaya, "Moment Based Approach for Iris Recognition", *International Journal of Computational Science*, Vol. 4, No. 3, pp. 253-263, June 2010.
15. G. Shivakumar and P.A. Vijaya, "Face Recognition System using Back-propagation Artificial Neural Network", *International Journal of Computer Engineering and Information Technology*, Vol. 7, No. 12, pp. 10-18, 2009.
16. G. Shivakumar and P.A. Vijaya, "Face Recognition using Geometric Attributes", *International Journal of Computational Intelligence and Research*, Vol. 6, No. 03, pp. 373-383, 2010.
17. G. Shivakumar and P.A. Vijaya, "Analysis of Human Emotions Using Galvanic Skin Response and Finger Tip Temperature", *International Journal of Synthetic Emotions*, Vol. 2, Issue 1, pp. 15-25, July 2011.

18. M.C.Padma and P.A.Vijaya, "Script Identification from Trilingual Documents Using ProfileBased Features", International Journal of Computer Science and Applications, © Techno Mathematics ResearchFoundation, Vol. 7 No. 4, pp. 16 – 33, 2010
19. M.C.Padma and P.A.Vijaya, "Script Identification of Text Words from a Trilingual Document ", Journal of Advances in Engineering Science, Editor in Chief : Dr. Dhananjay Kumar Singh, Section C(3), pp. 47-56, January - June 2010.
20. Sheela S V and P A Vijaya, "Appearance Based Method for Eye Gaze Tracking", Journal of Computer Science, Vol. 7, No. 8, pp. 1194-1203, July 2011
21. Sheela S V and P A Vijaya, "Mapping Functions in Gaze Tracking", International Journal of Computer Applications, Vol. 26, No. 11, pp. 47-54, July 2011
22. Sheela S V and P A Vijaya, "Iris Recognition Based on Wavelets", International Journal of Computer Applications, Vol. 26, No. 3, pp. 36-42, July 2011
23. Ms.Shyamala Bai, Dr.M.V.Satyanarayana, Dr. P.A. Vijaya, "Variable size block encryption using dynamic-key mechanism(VBEDM)", International journal of computer applications(0975-8887), Volume 27, No. 7, page.no. 27-30, August 2011.
24. G. Shivakumar and P.A. Vijaya, "Emotion Recognition Using Finger Tip Temperature: First Step towards an Automatic System", International Journal of Computer and Electrical Engineering (Elsevier), Vol. 4, No. 3, 252-255, June 2012.
25. P.A. Vijaya and G. Shivakumar, "An Improved Artificial Neural Network Based Emotion Classification System for Expressive Facial Images", International Journal of Computer Information Systems, Vol. 6, Issue 4, pp. 48-57, 2012.
26. P. A. Vijaya and G. Shivakumar, "Galvanic Skin Response: A Physiological Sensor System for Affective Computing,"International Journal of Machine Learning and Computing (Elsevier) vol. 3, no. 1, pp. 31-34, 2013.
27. Harshita K.M. and P.A.Vijaya, "Secure Data Hiding Algorithm Using Encrypted Secret Message", International Journal of Science and Research Publications, Vol. 2, Issue 6, pp.1-4, 2012.
28. Chetan B.V. and P.A.Vijaya, "A Robust Side Invariant Technique of Indian Paper Currency Recognition", International Journal of Engineering Research and Technology", Vol. 1, Issue 3, pp. 1-7, 2012.
29. Manjunath K. C., H.S. Mohana, P. A. Vijaya, "Machine Vision Based Non-Magnetic Object Detection and Removal on Moving Conveyors in Steel Industry Through Differential Techniques", International Journal of Computer Vision and Image Processing, Vol 2, No. 3, pp, 66-77, July-Sept 2012.
30. Nandish G.S., P. A. Vijaya, M.V. Satyanarayana, "An Image Encryption Using Bit Level Permutation and Dependent Diffusion", International Journal of Computer Science and Mobile Computing, Vol 2, Issue 5, pp. 146 – 155, May 2013.
31. Kiran P, H. S. Mohana and P.A. Vijaya, " Tracking Eye State and Fatigue Detection", International journal of Research in Information Technology, Vol 1, Issue 5, pp. 139 – 148, May 2013.
32. Nandish G.S., P. A. Vijaya, M.V. Satyanarayana, "Image Encryption Using Bit-Level Sub Image Blocks Confusion and Circular Diffusion", International Journal of Advanced Research in Computer Science and Software Engineering, Vol 3, Issue 5, pp. 185 – 193, May 2013.
33. Kiran P, H. S. Mohana and P.A. Vijaya, "Human Machine Interface Based on Eye Wink Detection", International Journal of Informatics and Communication Technology, Vol2, No. 2, pp. 116-123, July 2013.
34. Shreevyas H.M, P. A. Vijaya, M. K. Venkatesha, "An Integrated approach for Rural IT Education with Effective RemoteManagement", International Journal of Computer Engineering (IJCE), Vol 1, Issue 1, Aug 2013.
35. Preetham S. and P. A. Vijaya, "Microcontroller based Tongue Drive System for Physically Challenged People", International Journal on Artificial Intelligence and Mechatronics (IJAIM), Volume 2, Issue 2, Sept 2013.

36. Naveen S M, P. A. Vijaya, "Masked AES Algorithm for Storage Area Network", International Journal of Combined Research & Development (IJCRD), Volume: 2; Issue: 4; April-2014
37. Pradeep, P. A. Vijaya, "Comparative Analysis of FPGA Design of AES Core Architecture for External Memory Device", International Journal of Combined Research & Development (IJCRD), Volume: 2; Issue: 4; April-2014
38. Priya R. Sankpal and P. A. Vijaya, "A comparative study of object oriented steganographic techniques", International journal of recent innovation trends in computing and communication, Vol 2, Issue 10, pp. 3301-3306, Oct 2014
39. Mutthuraj K. S and P. A. Vijaya, "Design and Implementation of Rover Controller and Music Player Control Using Sixth Sense Technology", International Journal of Engineering Research and Technology (IJERT), ISSN: 2278-0181, Volume 4, Issue 5, May 2015.
40. Sathish D, P.A. Vijaya, Ramudu B, "Design and Implementation of CSR for DDR4 Memory Controller", International Journal of Electronics Communication and Computer Engineering (IJECCCE), Volume 6, Issue 3, pp:335-340, May-2015.
41. Manjunatha.K.C., Mohana.H.S., P. A. Vijaya, "Implementation of Computer Vision Based Industrial Fire Safety Automation by Using Neuro-Fuzzy Algorithms.", International Journal of Information Technology and Computer Science (IJITCS) ISSN: 2074-9007 (Print), ISSN: 2074-9015 (Online), Vol 4, pp. 14-27, Mar 2015.
42. Arpitha K H, Dr. P. A. Vijaya, "Design of Efficient Low Power Viterbi Decoder", International Journal of Research Studies in Electrical and Electronics Engineering (IJRSEEE), Volume 2, Issue 2, PP 1-7, ISSN: 2454-9460, May 2016
43. Deepa Srinivasa, Dr. P. A. Vijaya, "Comparative Performance Analysis of Speech Enhancement Methods", International Journal of Innovative Research in Electronics and Communications (IJIREC) Volume 3, Issue 2, PP 15-23, ISSN: 2349-4042, May 2016.
44. Sarah Iram, Dr. P. A. Vijaya, "Implementation of Window Listing optimization and Korean Smart Speller for In-Vehicle Infotainment", IOSR Journal of Computer Engineering (IOSR-JCE) e-ISSN: 2278-0661 and p-ISSN: 2278-8727, Volume 18, Issue 3, Ver. III, May-June 2016.
45. Darshan B, Chetan Kumar B O, Dr. P. A. Vijaya, "Assistive Technology for Physically challenged and intellectually disabled people", IJIREC, Volume 3, Issue 2, PP 24-34 ISSN 2349-4042 (Print) & ISSN 2349-4050 (Online), May-June 2016.
46. Priya R. Sankpal and Dr. P. A. Vijaya, "Robust Image Encryption Technique using Fusion of Chaotic maps", International Journal of Innovative Research in Science, Engg and Technology, Vol 5, Issue 6, June 2016, ISSN(Online): 2319-8753, ISSN(Print): 2347-6710
47. Chaitra N, P. A. Vijaya, "Pattern Classification of Autistic Individuals using Brain Imaging Data: A Review", International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE), Volume 6, Issue 6, pp 114-119, June 2016.
48. Bindhu G B, Dr. P. A. Vijaya, "Aggregation of Bandwidth with 4G Backhaul", International Research Journal of Engineering and Technology (IRJET), Volume 4, Issue 5, May 2017.
49. Keerthi G Reddy, Dr. P. A. Vijaya, Suhasini S, "ECG Signal Characterization and Correlation to Heart Abnormalities", Volume, Issue 5, May 2017.
50. Ashwini S. Savanth, Dr.P.A. Vijaya, "Artificial Neural Networks for fMRI Data Analysis: A Survey", International Journal of Engineering Trends and Technology (IJETT), V49(8), pp. 487-494, July 2017
51. M. Sreenath, Dr.P.A. Vijaya "Performance Evaluation of Embedded Systems Using Scheduling Algorithms", International Journal of Scientific Research in Computer Science & Information Technology, Volume 3, Issue 1, Pages 85-89, Feb 2018, ISSN: 2456-3307

52. Chaitra N, Dr. P. A. Vijaya, "Machine Learning Based Comparison of Pearson's and Partial Correlation Measures to Quantify Functional Connectivity in the Human Brain", International Journal of Neuroscience and Behavioral Science Volume 6, No 3, pp. 23 – 30, June 2018, ISSN: 2333-2689 (Online)
53. Divyashree K. J, Dr. P. A. Vijaya, Nithin Awasthi, "Design & Implementation of smart mirror as a personal assistant using Raspberry Pi", International Research Journal of Engineering & Technology, Vol.05, Issue4, ISSN:2395-0056, Impact factor-6.17, April 2018,

## **II. National Journals**

1. B. Vadeesha, U. N Sinha, P. A Vijaya, K.A Krishnamurthy, "C Parellelizing Preprocessor for Flosolver MK-3", IE Journal, Vol. 79, pages 13-17, Dec 1998.
2. M.K Venkatesha, K.A Krishnamurthy, P.A Vijaya, "Inversion Transformation for the Finite Element Solution of Three Dimensional Exterior Field Problems", IETE Journal of Research, Vol. 46, pages 57-62, Jan-April 2000,.

## **III. International Conference Proceedings**

1. R. Navali, U. N Sinha, P., A Vijaya, K.A Krishnamurthy, "A Parallel DBMS for Flosolver – MK3", In Proceedings of 5<sup>th</sup> International Conference on Advanced Computing, Chennai, India, pp. 70-74, Dec. 15-17, 1997.
2. P. A. Vijaya, M. N. Murty and D. K. Subramanian, "An Efficient Incremental Protein Sequence Clustering Algorithm", In Proceedings of IEEE TENCON (International Conference on Convergent Technologies), Asia-Pacific, Bangalore, India, Vol 1, pp. 409-413, October 2003.
3. P. A. Vijaya, M. N. Murty and D. K. Subramanian, "An Efficient Incremental Clustering Algorithm for Large Data Sets", In Proceedings of 2<sup>nd</sup> ICAAI International Conference on Applied Artificial Intelligence), Kolhapur, India, pp. 79-85, December 2003.
4. P. A. Vijaya, M. N. Murty and D. K. Subramanian, "Supervised K-medians Algorithm for Prototype Selection for Protein Sequence Classification", In proceedings of ICAPR (International Conference on Advanced Pattern Recognition), ISI, Kolkata, India, pp. 129-132, December 2003.
5. P. A. Vijaya, M. N. Murty and D. K. Subramanian, "An Efficient Technique for Protein Sequence Clustering and Classification", In Proceedings of 17<sup>th</sup> IEEE ICPR (International Conference on Pattern Recognition), Cambridge, UK, Vol 2, pp. 447-450, August 2004.
6. P. A. Vijaya, M. N. Murty and D. K. Subramanian, "An Efficient Hybrid Hierarchical Clustering (HHAC) Algorithm for Partitioning Large Data Sets", In Proceedings (LNCS Springer-Verlog) of First International Conference on Pattern Recognition and Machine Intelligence (PReMI), ISI, Kolkata, India, Vol 3776, pp. 583-588, Editors: S. K. Pal, S. Bandyopadhyay, S. Biswas, December 2005.
7. P. A. Vijaya, M. N. Murty and D. K. Subramanian, "Analysis of Leader based Clustering Algorithms for Pattern Classification", In Proceedings (ISBN) of 2<sup>nd</sup> Indian International Conference on Artificial Intelligence (IICAI), Pune, India, pp. 2072-2091, Editor: Bhanu Prasad, December 2005.
8. Kashiraya Biradar, P. A. Vijaya and K.S. Anil, "Programmable System on Chip (PSOC) for an Embedded System Design", In Proceedings of International Conference on Embedded Systems and Mobile Communication (ICEMC2-2007), PESIT, Bangalore, India, Abstract of the tutorial presented in the tutorial session is in page-12, 2-5 Aug 2007.
9. G. Shivakumar and P. A. Vijaya, "Face Recognition Techniques: A Systematic Survey", In Proceedings of IEEE sponsored International Conference on Computer,



- Communication, Control and Instrumentation (3CI-07), RVCE, Bangalore, India, pp. 83-87, 21<sup>st</sup>-23<sup>rd</sup> Nov. 2007
10. M C Padma and P A Vijaya, "Identification and separation of text words of Kannada, Telugu, Tamil, Hindi, English languages through visual discriminating features: Analysis of machine printed multilingual documents", In Proceedings of IEEE sponsored International conference on Advances in Computer Vision and Information Technology (ACVIT-2007), Aurangabad, India, pp1283-1291, 28<sup>th</sup> -30<sup>th</sup> Nov. 2007.
  11. G. Shivakumar, P A Vijaya and R. S. Anand, "Artificial Neural Network Based Cumulative Scoring Pattern Method for ECG Analysis", In Proceedings of IEEE sponsored International conference on Advances in Computer Vision and Information Technology (ACVIT-2007), Aurangabad, India, pp 451-457, 28<sup>th</sup> -30<sup>th</sup> Nov. 2007.
  12. M C Padma and P A Vijaya, "Visual feature extraction method for identification of South Indian languages", In Proceedings of 3<sup>rd</sup> Indian International Conference on Artificial Intelligence (IICAI-07), Pune, India, pp 2047-2059, 17<sup>th</sup> -19<sup>th</sup> Dec. 2007.
  13. Sheela S V, P A Vijaya, "Iris Recognition Methods – A Review", In Proceedings of International Conference on Systemics, cybernetics and Informatics (ICSCI-2008), Hyderabad, India, pp. 539-541, , 2<sup>nd</sup> -5<sup>th</sup> Jan 2008.
  14. M C Padma and P A Vijaya, "Towards Script Identification of Indian Documents : A Simple Approach based on Projections ", In Proceedings of 2<sup>nd</sup> International Conference on Cognition and Recognition (ICCR-08), PESCE, Mandya, India, pp 46-50, 10<sup>th</sup> -12<sup>th</sup> April. 2008.
  15. M C Padma and P A Vijaya, "Script Identification: Experimentation on Indian Multi-script Documents", In Proceedings of 2<sup>nd</sup> International Conference on Information Processing (ICIP-08), UVCE, Bangalore, India, pp 32-38, 8<sup>th</sup> -10<sup>th</sup> Aug 2008.
  16. M.C.Padma and P.A.Vijaya, "Use of Top and Bottom Profile Features for Language Identification of Kannada, Hindi and English Documents", In Proc. of International Conference on Systemics, Cybernetic and Informatics (ICSCI-2009), organized by Pentagram Research Publications, Hyderabad, pp.121-124, 7<sup>th</sup> -10<sup>th</sup> Jan 2009.
  17. M.C.Padma, P.A.Vijaya and P.Nagabhushan, "Language Identification from an Indian Multilingual Document Using Profile Features", in proc. of IEEE International Conference on Computer and Automation Engineering (ICCAE 2009), organized by International Association on Computer Science and Information Technology (IACSIT), Bangkok, Thailand, pp.332-335, 978-0-7695-3569-2/09© 2009 IEEE, 8<sup>th</sup> – 10<sup>th</sup> March 2009.
  18. P.A.Vijaya and M.C.Padma, "Text Line Identification from a Multilingual Document", in proc. of IEEE International Conference on Digital Image Processing (ICDIP-2009), organized by International Association on Computer Science and Information Technology (IACSIT), Mar 7-10, 2009, Bangkok, Thailand, pp.302-305, 978-0-7695-3565-4/09© 2009 IEEE.
  19. M.C.Padma and P.A.Vijaya, "Monothetic Separation of Kannada, Malayalam, Tamil and Telugu Text Lines from a Multi Script Document", in proc. of International Conference on Signal and Image Processing (ICSIP-2009), Mysore, pp.418-424, 12<sup>th</sup> - 14<sup>th</sup> August 2009.
  20. M.C.Padma and P.A.Vijaya, "Monothetic Separation of Telugu, Hindi and English Text Lines from a Multi Script Document", In Proc. Of IEEE International Conference on Systems, Man and Cybernetics, (IEEE SMC-2009), pp. 4870-4875, San Antonio, Texas, USA, 16<sup>th</sup> - 19<sup>th</sup> October 2009.
  21. M.C.Padma and P.A.Vijaya, "Monothetic Separation of Kannada, Hindi and English Text Lines from a Multi Script Document", In Proc. of 4<sup>th</sup> Indian International Conference on Artificial Intelligence (IICAI-09), Tumkur, ISBN: 978-0-9727412-7-9, pp.2259-2275, 16<sup>th</sup> -18<sup>th</sup> December 2009.
  22. M. C. Padma and P.A.Vijaya, "Monothetic Separation of Tamil, Hindi and English Text Lines from a Multi Script Document", In Proc. of International conference on Advances in Computer Vision and Information Technology (ACVIT-2009), sponsored by IEEE

- Mumbai Section, IK International Publishing House Pvt. Ltd., Aurangabad, pp. 519-527, 16<sup>th</sup> - 19<sup>th</sup> December 2009.
23. S. V. Sheela, P. A. Vijaya, "Iris Authentication using Continuous Dynamic Programming", The 2<sup>nd</sup> International Conference on Image and Signal Processing, Tianjin,, Indexed by EI, ISTP, IEEEExplore, at press, 2009.
  24. K.R.Radhika, S.V.Sheela, M.K.Venkatesha and P.A.Vijaya, "Authentication based on Kinematic Characteristics", Malaysian Joint Conference on Artificial Intelligence, Vol. 1, pp. 176-183, Malaysia, STAKE series, ISBN: 978-983-42877-2-3, 2009.
  25. S.V.Sheela, K.R.Radhika, M.K.Venkatesha and P.A.Vijaya, "Multimodal Authentication based on Continuous Dynamic Programming", International Conference on Signal and Image Processing, VVCE, Mysore, pp. 521-525, 2009.
  26. P.A. Vijaya and G. Shivakumar, "Galvanic skin response: A Physiological sensor system for affective computing", IEEE 3<sup>rd</sup> International conference on machine learning and computing (ICMLC 2011), Singapore, pp. 13 – 17, Feb 2011
  27. G. Shivakumar and P.A. Vijaya "Emotion recognition using finger tip temperature: First step towards an automatic system" IEEE 3<sup>rd</sup> International Conference on Signal Acquisition and Processing (ICSAP 2011), Singapore, pp.1 – 5, Feb 2011
  28. G. Shivakumar and P.A. Vijaya, "Human Emotion Recognition from Facial Images Using Feed Forward Neural Network with Batch Back Propagation Algorithm", International Conference on Data Engineering and Communication Systems-2011 (ICDECS 2011) held at Bangalore from 29 - 30, pp. 98-104, December 2011.
  29. Ms. Jyotirani , Dr. P.A. Vijaya, Mr. V. Siddalingappa. "Enhanced Face Tracking And Recognition Using Neural Network For Color Images", International Conferences On Communication, Computation, Management And Nano Technology, P.No.32, 2011.
  30. Mr. Srikanth H.T, Dr. P.A. Vijaya, "Modified reputation management protocol for dynamic network conditions"International Conferences On Communication, Computation, Management And Nano Technology, Bidar, P.No.39, 2011
  31. Ms. Rashmi J.C, Dr. P.A. Vijaya, "Traffic aware routing in wireless sensor networks", International Conferences On data engineering and communication systems, Bangalore P.No.293-298. 2011
  32. Mr. Mahesh Biradar, Dr. P.A. Vijaya, Mr. V. Siddalingappa, "Image Recognition Based On Decamouflaging Of Picture Using Image Analysis", International conference on electronic and communication engineering ECE-2011, Bangalore P.No 208-212, 2011
  33. Mr. Martin Joel Rathnam, Dr. P.A. Vijaya, "Efficient Scheduling Techniques for performance enhancement in networks", International Conferences On Computer Communication and signal processing, Tamilnadu P.No. 51-53, 2011
  34. Ms. Pallavi M., Dr. P.A. Vijaya, "Face, Gender and age recognition from facial features using artificial neural networks", International Conferences On data engineering and communication systems, P.No.256-262, 2011
  35. Mr. Siddarth Pai, Dr. P.A. Vijaya, "A secure Image based steganographic model using integer wavelet transform", International Conferences On data engineering and communication systems, Bangalore P.No.287-291, 2011.
  36. Mamatha S.V, P.A. Vijaya and Karthik Y.M., "A Nst motion detection for video surveillance system " International Joint Conference on Emerging Intelligent Sustainable Technologies (EISTCON- 2012), pp.134-140, Bangalore, 3-4 May 2012.
  37. Chetan B.V and P.A. Vijaya, "A robust method of Image Based Coin Recognition", International Conference on Advances in Computing (ICAdC-2012), pp.911-918, held at MSRIT, Bangalore, 4 – 6 July 2012.
  38. Sunil Kumar K.M and P.A. Vijaya, "Wavelet based Image Denoising using Block Thresholding Technique", International Conference on Current Trends in Engineering and Management Emerging Intelligent Sustainable Technologies (ICCTEM-2012), pp.187-192, held at VVCE, Mysore, 12 – 14 July 2012.
  39. P.A. Vijaya, "Electronics and Digital Computing Techniques for Images and Image Processing", Springer journal, LNEE 258, containing the Proceedings of VCASAN-

- 2013, 17-19 July 2013 held at BNMIT, Bangalore, DOI: 10.1007/978-81-322-1524-0\_8, Chapter 8, pages 37-45, Springer India, 2013
40. G. Shivakumar and P.A. Vijaya, "An Improved Artificial Neural Network Based Emotion Classification System for Expressive Facial Images", Springer journal, LNEE 258, containing the Proceedings of VCASAN-2013, 17-19 July 2013, held at BNMIT, Bangalore, DOI: 10.1007/978-81-322-1524-0\_8, Chapter 31, pages 243-253, Springer India, 2013
  41. M. V. Sireesha, P. A. Vijaya and Chellamma K., "A Survey on Gaze Estimation Techniques" Springer journal, LNEE 258, containing the Proceedings of VCASAN-2013, 17-19 July 2013 held at BNMIT, Bangalore, DOI: 10.1007/978-81-322-1524-0\_8, Chapter 31, pages 351-361, Springer India, 2013
  42. Srigoori M. V, Shreevyas H.M and P. A. Vijaya, "A Low Cost Networking Approach with a Remote Centralized Control of Rural IT Education", CCUBE-2013, RNSIT, Bangalore, 27-28 Dec 2013.
  43. Sahana K.A and P.A. Vijaya, "An Embedded Web Server for Industrial Automation", Springer journal, LNEE 248 Containing Selected papers from ICERCT-2012 held at PESCE, Mandya, DOI: 10.1007/978-81-322-1157-0\_70, pages 685-693, Springer India, 2014
  44. Priya R Sankpal, P. A. Vijaya, "Image Encryption Using Chaos- A survey", ICSIP-2013, IEEE Explore, 8<sup>th</sup>– 10<sup>th</sup> Jan 2014, BNMIT, Bangalore.
  45. K.C Manjunatha, H.S Mohana, P.A. Vijaya, "Implementation of Computer Vision Based Industrial Automation by Using Neuro-Fuzzy Algorithms", IEEE International Conference on Intelligent and Autonomous Systems (ICIAS2015), MCE, Hassan, India, 7-8 Nov 2015.
  46. Chaitra N, P. A. Vijaya, "Comparing Univalent and Bivalent Brain Functional Connectivity Measures Using Machine Learning", was accepted and presented at ICSCN – 2017, organized by MIT, Anna University, Chennai on March 16-18, 2017. The proceedings of this conference is in IEEE Xplore.
  47. Keerti Kulkarni, Dr. P. A. Vijaya, "A Comparative Study of Land Classification Using Remotely Sensed Data, ICCMC-2017, Pages 36-41, 17<sup>th</sup> -18<sup>th</sup> July 2017.

#### **IV. National Conference Proceedings**

1. P.A Vijaya, K.A Krishnamurthy, M.K Venkatesha, "Design of Network Management System For Local Area Network", In the Proc. of ISTE National Seminar on Computer Networking (NET FEAST 92) , pp. 13-14, 17-18 Jan. 1992.
2. P.A Vijaya and D.K Subramanian, "New Affinity Group Based Dynamic Transaction Migration Algorithms For Distributed Banking Transaction System", In the Proc. of ISTE National Seminar on Computer Networking (NET FEAST 92) ,17-18 Jan. 1992, pp. 18-20.
3. P.A Vijaya, K.A Krishnamurthy, M.K Venkatesha, & M.S Raviprakash, "Microprocessor based energy meter", National Workshop on Electronic Energy Meters – pros and cons", Malnad College of Engineering, Hassan, India, pp. 43-49, 29<sup>th</sup> May 1999.
4. P. A. Vijaya, M. N. Murty and D. K. Subramanian, "An Efficient Incremental Clustering Algorithm for Prototype Selection for Pattern Classification for Large Data Sets", In Proc. of 2<sup>nd</sup> National Conference on Document Analysis and Recognition, PESCE, Mandya, India, pp. 79-85. 2<sup>nd</sup> – 3<sup>rd</sup> Aug 2003
5. P. A. Vijaya, M. N. Murty and D. K. Subramanian, "Efficient Hierarchical Clustering Algorithms for for Large Data Sets", In Proceedings of Doctoral Research Symposium, Amrita VV, Coimbatore, India, pp. 10-14, Dec. 2004.
6. G. Shivakumar, H.S. Mohana and P.A. Vijaya, "Moisture Measurement in Food Grains Using PIC 16F877 microcontroller", In National symposium on Instrumentation held at Institute of Technology & Management, Department of Electronics & Instrumentation, ITM

- Universe, Gwalior, organized by Instrument Society of India, IISc, Bangalore, 12th to 15th October 2006, pp 126-129.
7. G. Shivakumar, H.S. Mohana and P.A. Vijaya, "Human Blood Glucose Measurement Using PIC 16F877 microcontroller", In national symposium on Instrumentation held at Institute of Technology & Management, Department of Electronics & Instrumentation, ITM Universe, Gwalior, organized by Instrument Society of India, IISc, Bangalore, pp 148-150, 12<sup>th</sup> – 15<sup>th</sup> October 2006.
  8. M.C.Padma and P.A. Vijaya, "Word-wise Separation of Kannada, Hindi and English Text Words and Hindu Arabic Numerals through Visual Features", in proc. Of the Fifth National Conference on Advanced Image Processing and Networking (NACIPAN-09), Tamilnadu, pp.6-12, 6<sup>th</sup> and 7<sup>th</sup>, March 2009.
  9. M.C.Padma and P.A. Vijaya, "Applicability of Fuzzy Membership Function for Document Script Recognition", in proc. Of National Conference on Image Processing, Computer Vision and Pattern Recognition (NCIPV '09), 24<sup>th</sup> and 25<sup>th</sup>, August 2009, Mandya.
  10. Ramalingesha Pyati and P.A.Vijaya, "Multiple Object Recognition", published at National Conference on Image Processing, Computer Vision and Pattern Recognition (NCIPV '09) held during 24<sup>th</sup> and 25<sup>th</sup> August 2009, organized by PES College of Engineering, Mandya.

### **BOOK CHAPTERS**

1. G. Shivakumar and P.A. Vijaya, "Chapter 8: Investigation of Individual Emotions with GSR and FTT by employing LabVIEW" Book Title: Synthesizing Human Emotion in Intelligent Systems and Robotics Editor: Dr. Jordi Vallverdú, Publisher: IGI Global, USA, Copyright © 2014.
2. Manjunath K. C, H.S. Mohana, P. A. Vijaya, " Chapter 14: Computer Vision-Based Non-Magnetic Object Detection on Moving Conveyors in Steel Industry through Differential Techniques and Performance Evaluation" Book Title: Computer Vision and Image Processing in Intelligent Systems and Multimedia Technologies, DOI: **10.4018/978-1-4666-6030-4.ch014**, Copyright © 2014. 15 pages, IGI Global, USA

### **Invited Talks Delivered:**

**(Total = 18, from the academic year 1990. Details from 2013 are provided below.)**

1. Invited Talk on "Embedded systems in Mechatronics", Workshop on recent trends in Mechatronics, Dept. of ECE, MCE, Hassan, 30<sup>th</sup> May 2013.
2. Invited Talk on "Real Time Embedded Systems and RTOS", Organized for M.Tech Students and Research Scholars, Dept. of ECE, PESIT, Bangalore, 6-10-2013.
3. Invited Talk on "Biometrics for Personal Identification", during AICTE Sponsored Conference on Colloquium-Research on Soft Computing (CRSC-14), SVIT, Bangalore, 22-3-2014.
4. Invited Talk on "Management Information System", during International Conference on Electronics, Communication, Computer Science and Information Technology (ICECCSIT-2014), Pai Vista Hotel, Bangalore, 27-4-2014.
5. Invited Talk on "Research Methodology", during International Conference on Emerging Trends in Engineering and Technology (ICET-2015), Pai Vista Hotel, Bangalore, 5-7-2015.
6. Invited Talk on "Iris Recognition", during International Conference on Emerging Trends in Engineering and Technology (ICET-2016), Pai Vista Hotel, Bangalore, 8-5-2016.
7. Keynote talk on "Real Time Embedded Systems Applications", International Conference on Chip, Circuitry, Current, Coding, Combustion and Composites (I7C-2016), Sai Ram Engg College, Anekal Bangalore, 10-11-2016
8. Invited talk on "Students Support and Progression, Research, Innovation and Extension", FDP on Quality Indicator Framework for NAAC Process, GSSSIETW, Mysore, 24-7-2018.

### **Chairmanships at National/International Conference/Seminars:**

**(Total = 19, from the academic year 2001. Details from 2013 are provided below.)**

1. Chaired a technical session in the National Conference on Electronics and Communication, RNSIT, Bangalore, on 2<sup>nd</sup> May 2013.
2. Chaired a technical session in the National Conference on Controls and Instrumentation (NCCI- 2013), Dr. AIT, Bangalore, on 10<sup>th</sup> May 2013.
3. Chaired a technical session in the National Conference on Signal Processing, Communication and Networking, (NCSPCN-2013), Dept of ECE, SSIT, TUMKUR on 30-8-2013.
4. Chaired a technical session in the International Conference on Circuits, Control and Communication, (CCUBE- 2013), RNSIT, Bangalore on 27-12-2013.
5. Chaired a technical session in the International Conference on Signal and Image Processing, (ICSIP- 2014), BNMIT, Bangalore on 9-1-2014.
6. Chaired a technical session in the International Conference on Computer Science, Electronics, Communication Engineering, (ICCECE- 2014), Pai Viceroy Hotel, Bangalore on 27-4-2014.
7. Chaired a technical session in the International Conference on Engineering and Technology, (ICET- 2014), Pai Vista Hotel, Bangalore on 18<sup>th</sup> May 2014.
8. Chaired a technical session in the International Conference on Electronics and Computer Communication (ICECC- 2014), Pai Vista Hotel, Bangalore during June 2014.
9. Chaired a technical session in the International Conference on Electronics and Computer Communication (ICECC- 2015), Pai Vista Hotel, Bangalore on 18-5-2015.
10. Chaired a technical session in the International Conference on Engineering and Technology (ICET- 2016), Pai Vista Hotel, Bangalore on 4-7-2016.
11. Chaired a technical session in the ICFDA – 2017, Organized by Dept of Maths, BNMIT, Bangalore, 12<sup>th</sup> July 2017.
12. Chaired a technical session in the ICCIET – 2018, Organized by Dept of CSE, ISE & MCA, NMIT, Bangalore, 28<sup>th</sup> July 2018.

### **Participation in Training courses/Seminars/Workshop/Conferences**

**(Total = 55, from the academic year 1986. Details from 2013 are provided below.)**

1. International Conference – VCASAN, 17<sup>th</sup>-19<sup>th</sup> July 2013, Dept. of ECE, BNMIT, Bangalore.
2. International Conference – CCUBE-2013, RNSIT, Bangalore, 27<sup>th</sup>-28<sup>th</sup> Dec 2013.
3. One day seminar – Engineering and Science Summit, Organized by National Instruments, Bangalore, 16-4-2014.
4. FDP on Recent Technological Innovations in Optical Engineering, Under TEQIP II, MCE, Hassan, 14<sup>th</sup>-18<sup>th</sup> July 2014.
5. Training-cum-FDP on Cyber Security and Cyber laws conducted by NLSIU at BNMIT, Bangalore, 20-8-2014.
6. FDP on Electronic Communication and Trends, Dept. of ECE, BNMIT, Bangalore, 19<sup>th</sup> – 23<sup>rd</sup> Jan 2015.
7. One Day Workshop on CBCS, Organized by VTU for all Engineering College Teachers of Bangalore Region at BNMIT, Bangalore, July 2015.
8. One Day Workshop on NBA, Organized for all Engineering College Teachers of Bangalore Region at BMSCE, Bangalore, Aug 2015.
9. Workshop on Preparation for Accreditation by NBA, BNMIT, Bangalore, 3<sup>rd</sup> -5<sup>th</sup> Dec 2015.
10. FDP on ARM Cortex M3, Dept. of ECE, BNMIT, Bangalore, 8<sup>th</sup> – 14<sup>th</sup> Jan 2016.
11. International Conference on Engineering and Technology, Pai-Vista Hotel, Bangalore, 4<sup>th</sup> – 5<sup>th</sup> July 2016.
12. FDP on Computer and Wireless Networks, Dept. of ECE, BNMIT, Bangalore, 11<sup>th</sup>-16<sup>th</sup> July 2016.

13. Two Days workshop on Taxonomy and Course Outcomes, VTU RO, Bangalore, 9<sup>th</sup>-10<sup>th</sup> Jan 2017.
14. FDP on Physical Design Challenges in DSM Node VLSI Systems, Dept. of ECE, BNMIT, Bangalore, 16<sup>th</sup>-21<sup>st</sup> Jan 2017
15. One day Syllabus blow up workshop of finalization of CBCS Scheme & Syllabus, VTU RO, Bangalore, 6<sup>th</sup> July 2017.
16. FDP on MSP430 Microcontroller and its Applications, Dept. of ECE, BNMIT, Bangalore, 31<sup>st</sup> July 2017-5<sup>th</sup> Aug 2017.
17. One day workshop on AICTE Model Curriculum organized by VTUat BMSCE, Bangalore, 12-3-2018.
18. One day workshop on AICTE Model Curriculum for finalizing I year Courses in EC/TE Board for 2018-19, MSRIT, Bangalore, 14<sup>th</sup> May 2018.
19. One day workshop on AICTE Model Curriculum for finalizing M.Tech Scheme and Syllabus in EC/TE Board for 2018-19, BNMIT, Bangalore, 6<sup>th</sup> Aug 2018.

#### **Visits Abroad:**

1. Cambridge, UK: For presenting paper in IEEE ICPR, Aug 2004.
2. London, UK: For presenting Doctoral research work for BS students in King's College, Aug 2004.
3. Bangkok, Thailand: For presenting paper in IEEE ICDIP, March 2009.
4. Singapore: For presenting paper in IEEE ICMLC, Feb 2010.

#### **Personal Details:**

- **Date of Birth:** 18-07-1963
- **Gender:** Female
- **Marital Status:** Married. Two children (one son and one daughter)
- **Passport Number:** L9639660 (valid till 16-6-2024)

5<sup>th</sup> August 2019

**Dr. P. A. VIJAYA**