



Dr. S. Batmavady
B.Tech.,M.Tech., Ph.D.,MISTE
PROFESSOR

Name : **Dr.S.BATMAVADY**

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DoB: 14/08/1970

Designation: Professor

Department : ECE

Instituion: Pondicherry Engg. College

Educational profile: B.Tech., M.Tech., PhD., MISTE

Total teaching experience: 25 years

Publication details:

Journal Publications:

- [1]“Wavelet based Watermarking of Fused Image for Telemedicine Applications”, *International Journal on Recent Trends in Engineering and Technology*, vol.5, No:1, pp.70-73, March 2011.
- [2] “Fusion of A-IFS Histon and FCM for Color Image Segmentation”, *CiiT International Journal of Digital Image Processing*, Vol.2, No: 5, pp. 125-130,May 2010.
- [3]“ Neuro-Fuzzy based Enhanced Colour Video Fusion”, *International Journa on Recent Trends in Engineering and Technology*, vol.7, No:1, pp.22-27, July 2012.
- [4]“On the Realisation of XOR Neural Networks”, *International Engineering and Technology Journal of Advanced Computations*, vol.3, no:3, pp.102-105, 2009.
- [5]Region Based Image Fusion using Modified Contourlet Transform”, *CiiT International Journal of Digital Image Processing*, Vol.2, No: 14, pp. 888-892,September 2011
- [6]“Colour Image Fusion using an Improved Transform based Approach”, *International Journal of Information Technology and Engineering*, vol.3, pp.173-178, June 2012.(Extended conference paper)

[7]“Analysis of Fusion Technique using different Wavelet Transforms”, *CiiT International Journal of Digital Image Processing*, Vol.2, No: 8, pp. 236-243, August 2010.

[8]“Fusion of Multi-focus and Multi-exposure Colour Images using Curvelet Transform Technique”, *CiiT International Journal of Digital Image Processing*, Vol.5, No: 3, pp. 103-107, March 2013.

[9] “An Improved Approach for The Classification of Exudates from Fundus Image”, *International Journal of Research in Computer Engineering & Technology*, May 2016

[10] “ Non-Invasive Diagnosis of Eye Diseases using Image Segmentation and Neural Networks”, *International Journal of Advanced Research in Computer Engineering & Technology*, May 2014.

[11] “Secure Transmission of Medical Images Using Elliptic Curve Cryptography with Biometric Authentication”, *International Journal for Research in Applied Science, Engineering and Technology*, April 2018.

[12] “An Improved Approach for the Segmentation and Classification of Melanoma Tumours’, *International Journal for Research in Applied Science, Engineering and Technology*, April 2018.

Conference papers publications:

[1] “Colour Image Fusion using an Improved Transform based Approach”, *National Conference on Information Technology*, February 2012.

[2] “ Fuzzy C-means Clustering of Colour Images employing Colour Invariant Model”, *National Conference on Communication Technologies*, pp. 320-324, Mepco Schlenk Engg. College, Sivakasi, March 10-11, 2006.

[3] “ Fusion of Noisy Images in the Complex Wavelet Domain using Segmentation Approach”, *International Conference on Advances in Information Communication Technologies and VLSI Design*, August 2010.

[4] “ Performance Analysis of Colour Image Fusion using Improved Transform Techniques”, *International Conference on Process automation Control and Computing*, July 2011

[5] “ Performance Analysis of complex Wavelet Transforms”, *National Conference on Signal Processing Communications and VLSI Design*, Anna University , Coimbatore, May 2010.

[6] “Robotic Writing of Characters using Parametric Equations”, *National Conference on Advanced Communication Technologies*, vol.1, pp. 2.47-2.50, AcTech, Karaikudi, March 2007.

[7] “Segmentation Recognition and Synthesis of Tamil Characters for Robotic Writing”, *International Conference on Computational Intelligence and Multimedia Applications*, vol.2, pp. 394-398, December 2007.

[8] “ Multi-modal Biometric System for Authentication using Fingerprint and Iris”, *International Conference on Recent Trends in Computer Science* ,Anna University, Chennai, July 2012.

[9] “An Improved Fuzzy Technique for Colour Image Segmentation”,*Fourth International Conference on Information Processing*, pp. 510-512, August 2010.

[10]“ Detection of CO₂ Gas Using FIR Filtering Tehniques”, *DRDO sponsored National Conference* , pp. 70 – 74, April 2013.

[11] “Detection of Cotton Leaf Disease using Image Processing”, *International conference on Artificial Intelligence and Evolutionary Computations in Engineering Systems*, April 2019.

Books Authored:

[1] Communication Theory, Charulatha Publications, Chennai

[2] Signals and Systems Anuradha Publications, Chennai

Courses attended:

1. Recent Trends in Diagnostic Maintenance
2. Recent Trends in Advanced Materials Science
3. Telecommunication in Bio-Medical Engineering
4. Compression Techniques for Multimedia Applications
5. Workshop on Wireless Communication
6. An Approach to 3G Wireless Systems
7. Networking to E-Seva and Online Hoarding
8. Information Security
9. Recent Trends in Nanotechnology and its Applications
10. Security in Wireless Heterogeneous Networks – Issues and Challenges
11. Recent Trends in Measurement and Automation
12. Recent Advances in Green Engineering
13. Design of Embedded Systems – Issues and challenges
14. Recent Trends in Cloud Security

15. Computational Intelligence to Power System Analysis, Control and Optimisation
16. Orientation Course for college and university teachers
17. Bio Signal Processing for Telemedicine Applications
18. Management Enhancement Capacity Programme
19. Recent Trends in Optimization Techniques and Applications
20. VLSI Design using NI Hardware and Software
21. Programme Educational Objectives and Programme Outcomes
22. Recent Trends in Nanotechnology and its Applications
23. Advances in Evolutionary Computing and Optimization Techniques
24. Internet of Everything: Gaining Greater Insights into an Emerging Digital Drive
25. Awareness of Women's Legal Rights
26. Appreciating Carnatic Music(NPTEL FDP-SWAYAM course)

Expert lectures delivered:

- 1) In SRM-ISTE sponsored STTP course at PEC
- 2) In TEQIP sponsored STTP course at PEC
- 3) “Digital Image Processing”,at Arunai Engg. College, Thiruvannamalai
- 4) “Signals and Systems”, Guest speaker, Sri Venkateswara College of Engg. and Technology, Ariyur

Area of specialization: Digital Image Processing

Membership with professional bodies: Life Member of ISTE

Courses/ Conferences/workshop/ seminars organized:

- 1) One week TEQIP sponsored course on "Applications of Image Processing Techniques in Next Generation Wireless Networks" from May 20th to May 24th 2013
- 2) One day workshop on VLSI Design using Virtual lab in 2013
- 3) Hands on training given on "Image Processing and its applications" at Chennai
- 4) Co-coordinated VSNL panel discussion on " Internet of Things"

Courses taught: Signals and Systems

Digital Image Processing
Electronic Devices and Circuits
Communication Engineering
Information Theory and Coding
Basic Electronics
Digital Signal Processing
Antennas and Wave Propagation
Electronic Circuit Design

BoS membership details: BoS member of UG/PG curriculum of Pondicherry University

Reviewer of books/journal etc: Reviewer of Conference papers