



Dr. E. Srinivasan
B.E., M.E., Ph.D., MISTE
PROFESSOR

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| Name | DR.E.SRINIVASAN | | |
| Designation | Professor | | |
| Date of joining | 08 May 1987 | | |
| Department | Electronics and Communication Engineering | | |
| Qualifications | UG: B.E. | PG: M.E. | PhD in Signal Processing |
| Experience in years | Teaching: 29 years | Industry: Nil | Research: 16 Years |

Administrative Experience:

- Head of the Department, Department of Electronics and Communication Engineering during (Sep 2009 – Sep 2012)
- Chairperson, Board of Studies (ECE), Pondicherry University till Sept. 2012
- Coordinator, QEEE (Quality Enhancement in Engineering Education) for Pondicherry Engineering College
- Steered the TEQIP Activities for the department until Sept.2012.

Academic Experience:

- Supervised more than twenty M.Tech dissertation works
- Currently, supervising three Ph.D scholars
- Currently acting as Doctoral Committee member for Anna University and Pondicherry University
- **Curriculum Development:** Led the Board of Studies (ECE) as its Chairperson during 2011 in revising/ formulating the curriculum and syllabus for M.Tech (ECE) and M.Tech (WC) programmes offered by the Pondicherry University under CBCS and non- CBCS.

Significant Contributions:

- Research Publications in International/National Journals/Conferences : 37
- Highly appreciated for proposing a New Class of Midpoint Type Nonlinear Filters for multiple noise removal from image signals, submitted as part of my Ph.D dissertation
- Our research publications on order-statistic filtering techniques and handwritten character recognition systems have received the attention of researchers in the respective areas
- Reviewer, AMSE Journal of Signal Processing, France
- Established a state-of-the-art process control laboratory
- Enabled the establishment of the Freescale Semiconductor India sponsored Embedded Systems Laboratory under a Letter of Understanding (LoU)
- Organized four-day hands-training programme on Embedded Systems in collaboration with M/s Freescale Semiconductor India for Engineering College Teachers.
- Successfully completed two MODROB projects in 1980s and 1990s and currently one MODROB project is under progress.
- Served as Conference Chair for the First AICTE Sponsored National Conference on Green ICT held during 5th and 6th July 2013.
- Enabled the effective functioning of eight laboratories of the department
- Coordinated several Faculty Development Programs, Student Workshops and Seminars
- Delivered a host of domain based expert presentations/lectures/talks in various FDPs, STTPs, Conferences, Workshops and Seminars
- Immensely passionate about developing the department facilities towards providing a competitive learning environment for the students and scholars

PUBLICATIONS

Journals

1. E.Srinivasan and D.Ebenezer, "A New Class of Midpoint Type Nonlinear Filters for Eliminating Short- and Long- Tailed Noise in Images", IETE Journal of Research, Vol.47, No.5, pp.211-215, September-October 2001.
2. E.Srinivasan and D.Ebenezer, "New Nonlinear Filtering Strategies for Eliminating Medium and Long Tailed Noise in Images with Edge Preservation Properties", IETE Journal of Education, vol.46, No.1, pp.3-11, January-March 2005.
3. E.Srinivasan and D.Ebenezer, "New Nonlinear Filtering Strategies for Eliminating Short and Long Tailed Noise in Images with Edge Preservation Properties", International Journal of Signal Processing, Vol.4, No.3, pp.175-181, 2007.
4. A.Muthuramalingam, S.Himavathi and E.Srinivasan, "Neural Network Implementation Using FPGA: Issues and Application", International Journal of Information Technology, Vol.4, No.2, pp.86-92, 2007.
5. E.Srinivasan and D.Ebenezer, "A Technique for Improving the Performance of Median Smoothers at the Corners Characterized by Low Order Polynomials", International Journal of Electronics, Circuits and Systems, Vol.1, No.3, pp.189-196, 2007.
6. J.Vikram, E.Srinivasan, M.Aparna and R.Hariharan, "Quantum Engineering – A Review", AMSE Journal of Signal Processing, France, 2007.
7. J.Pradeep, E.Srinivasan and S.Himavathi, " Diagonal Feature Extraction Based Handwritten Character System Using Neural Network", International Journal of Computer Applications, Vol. 8, No. 9, October 2010, pp. 17 – 22.
8. J.Pradeep, E.Srinivasan and S.Himavathi, "Neural Network Based Recognition System Integrating Feature Extraction and Classification for English Handwritten Characters", International Journal of Engineering, Vol. 25, No. 2, May 2012, pp. 95 – 101.
9. J. Pradeep, E. Srinivasan and S. Himavathi. "Hybrid Features and Novel Training Strategy for Performance Enhancement of Neural Network based Handwritten English Characters Recognition System", *Wulfenia Journal*, vol. 19, Issue. 11, pp.287-311, November 2012, ISSN: 1561-882X (SCI).

International/ National Conferences

10. S.Himavathi and E.Srinivasan (1997), 'Computer Simulation Package/Aids- A Boon to Future Engineering Education', ISTE National Seminar on Restructuring of Technical Education System for better Efficiency and Effectiveness. Dec 5-6, 1997, Viyayawada, pp. 63-67.
11. R.Nakkeeran and E.Srinivasan, "Implementation of optical fiber coupler as a switch", Proc. of the International Conference on Networks, CSI, Bangalore, India, pp. 42 - 49, 1998
12. E.Srinivasan and G.Kamatchi Soundaram, "Design and Implementation of digital tracer", Proc. of National Systems Conference on Technology, Education and Environment for sustainable growth, Calicut, India, pp. 221-224, 1998
13. E.Srinivasan, R.Selvam and D.Ebenezer, "A Nonlinear Variable Cut-Off Highpass Filter Algorithm for VLSI Implementation", Proc. Int. Conf. on Information, Communication and Signal Processing, (ICICS'99), NTU, Singapore, 3E2.4#099.pdf.
14. E.Srinivasan and D.Ebenezer, "New Nonlinear Filtering Strategies for Eliminating Medium- and Long-Tailed noise in Images with Edge Preservation Properties", Proc. The Third International Symposium on Wireless Personal Multimedia Communications (WPMC'00), Vol.2, Bangkok, Thailand, pp.740-745.
15. E.Srinivasan and D.Ebenezer, "Midpoint Type Nonlinear Filters for Eliminating Uniform, and Impulse Noise in Images", Proc. The Third International Symposium on Wireless Personal Multimedia Communications (WPMC'00), Vol.2, Bangkok, Thailand, pp.735-739.
16. E.Srinivasan and D.Ebenezer, "New Nonlinear Filtering Strategies for Eliminating Short- and Long-Tailed noise in Images with Edge Preservation Properties", Proc. First International Conference on Mechatronics (ICOM'01), IIU, Malaysia, Vol.2, pp.382-392.
17. E.Srinivasan and D.Ebenezer, "New Nonlinear Filtering Techniques for Eliminating Uniform and Impulsive Noise in Signals with Edge Preservation Properties", Proc. Asia-Pacific Telecom-2000 (APT-2000), Vellore, India, pp.44-49.
18. E.Srinivasan and D.Ebenezer, "A Nonlinear Recursive Smoother for Image Filtering", Proc. Asia-Pacific Telecom-2000 (APT-2000), Vellore, India, pp.50-53.

19. E.Srinivasan and D.Ebenezer, "New Nonlinear Filter Structures for Eliminating Medium- and Long-Tailed Noise with Edge Preservation Properties", Proc. Sixth National Conference on Communications (NCC-2000), Indian Institute of Technology, New Delhi, India, pp.275-278.
20. E.Srinivasan and D.Ebenezer, "Robust Midpoint Filters", Proc. International Conference on Communications, Computers and Devices (ICCCD-2000), Indian Institute of Technology, Kharagpur, India, Vol.II, pp.599-602.
21. E.Srinivasan and D.Ebenezer, "A Method for Improving the Fine-Detail Preserving Characteristics of Median Smoothers", Proc. International Conference on Energy, Automation and Information Technology (EAIT-2001), Indian Institute of Technology, Kharagpur, India.
22. E.Srinivasan, Diana Panda and K.Sujatha, "An adaptive fuzzy system for image segmentation", Proc of National Seminar on Advances in computer communication networks, IIT Roorkee, India, pp. 137-144, Feb.2004.
23. V.Prithiviraj, E.Srinivasan, K.Dhandapany, B.Sriram, J.Sundar Singh and K.M.Sundaresan, "Chaos Applied to Multimedia Encryption", Proc. International Conference on Intelligent Systems 2005 (ICIS 2005), Kula Lumpur, Dec. 2005.
24. Vikram Jagannathan, R.Hariharan, Aparna Mahadevan and E.Srinivasan, "Simultaneous Color Image Compression and Encryption Using Number Theory", Proc. International Conference on Information Security (ICIS-2005), Pondicherry Engineering College, India, pp.1-5, Dec. 2005.
25. J.Vikram, M.Aparna, R.Hariharan, E.Srinivasan, "Number Theory Based Image Compression, Encryption and Application to Image Multiplexing", Proc. IEEE-International Conference on Signal Processing, Communications and Networking (IEEE-ICSCN 2007), Chennai, India, pp.59-64, Feb. 2007 (posted in IEEE xplore).
26. E.Srinivasan and R.Pushpavalli, "Multiple Thresholds Switching Median Filtering for Eliminating Impulse Noise in Images", International Conference on Modeling and Simulation (CITICOMS 2007), Coimbatore, India, August 2007.

27. R.Pushpavalli and E.Srinivasan, "Multiple Decision Based Switching Median Filtering for Eliminating Impulse Noise with Edge and Fine Detail Preservation Properties", International Conference on Modeling and Simulation (CITICOMS 2007), Coimbatore, India, August 2007.
28. H.Gangadhar and E.Srinivasan, "Performance Comparison of ROAD Statistic Based Nonlinear Filters for Image Denoising", IEEE Region 10 Colloquium and Third ICIIS, Kharagpur, India, Decemeber 2008.
29. H.Gangadhar and E.Srinivasan, " Performance Comparison of ROLD Statistic Based Nonlinear Filters For Image Denoising", Proceedings of the International Conference on Computing, Communication and Information Technology Applications, ISBN 978-81-909789-0-3, CCITA, January 21-23, 2010, India, pp.334-341.
30. R.Pushpavalli, E.Srinivasan and S.Himavathi, " A New Nonlinear Filtering Technique for Image Denoising", ACEEE International Conference on Advances in Recent Technologies in Communication and Computing, Kottayam, India, October 2010, pp. 1 - 4.
31. H.Gangadhar and E.Srinivasan, " PerformanceComparison of ROLD Statistic Based Nonlinear Filters For Image Denoising", Proceedings of the International Conference on Computing, Communication and Information Technology Applications, ISBN 978-81-909789-0-3, CCITA, January 21-23, 2010, India, pp.334-341.
32. J.Pradeep, E.Srinivasan and S.Himavathi, " Neural Network Based Handwritten Character Recognition System Without Feature Extraction", International Conference on Computer, Communication and Electrical Technology – ICC CET 2011, March 2011, pp. 40-44.
33. J.Pradeep, E.Srinivasan and S.Himavathi, " Diagonal Based Feature Extraction For Handwritten Character Recognition System Using Neural Network", 3rd International Conference on Electronics Computer Technology (ICECT 2011), 2011, pp. 364-368.
34. J. Pradeep, E. Srinivasan and S. Himavathi. "Performance Analysis of Hybrid Feature Extraction Technique for Recognizing English Handwritten Characters", *Proceedings of Second World Congress on Information and Communication Technologies*, vol. 2, pp.373-377, 02 November 2012,Trivandrum, India, Print ISBN: 978-1-4673-4804-1.

35. J.Pradeep, E. Srinivasan and S.Himavathi, "Hybrid Feature combinations for performance enhancement of Neural Network based English Handwritten Character Recognition System", *Proceedings of Elsevier International Conference on Emerging Trends in Electrical, Communication and Information Technologies*, vol. 1, pp.14-20, 21st to 23rd December 2012, Anantapur, Andhra Pradesh, India, Print ISBN: 978-81-312-3411-2.
36. J.Pradeep, E.Srinivasan and S.Himavathi, "Diagonal Feature Extraction for Feed Forward Neural Network Based Handwritten English Lowercase Character Recognition System", *Proceedings of IEEE - International Conference on Research and Development Prospects on Engineering and Technology (ICRDPET-2013)*, Vol.3, pp.153-157, 29-30 March-2013, Nagapattinam, India, Print ISBN: 978-1-4673-4948-2.
37. J.Pradeep, E.Srinivasan and S.Himavathi, "Feed Forward Neural Network based Offline Handwritten Character Recognition System Using Diagonal feature Extraction", *Proceedings of National Conference on Recent Advance in Engineering and Technology*, vol. 1, pp.241-245, 29-30 March-2013, Satara, India, Print ISBN: 978-81-312-3411-2.