FACULTY PROFILE

Name : **Dr.P.VETRIVELAN**

Designation : Associate Professor

Email ID : vetrivelan.ece@srit.org

vetrivelanece@gmail.com

Area of Specialization : Signal & Image Processing

Total Experience : 18 Years 7 Months   Academic : 18 Years 7 Months

Industry   : Nil

Educational Qualification:

Degree	Branch / Specialization	College	University
Ph.D.	Image Processing	P.S.G. College of Technology	Anna University, Chennai.
M.S. (By Research)	Signal & Image Processing	P.S.G. College of Technology	Anna University, Chennai.
Bachelor of **E**ngineering	Electronics and Communication Engineering (ECE)	Adhiyamaan College of Engineering	University of Madras, Chennai

Experience Details:

S.No	Institution/Industry	Design.	Experience		Total Years & Months
			From	**To**	
1	V.M.K.V Engineering College, Salem.	LECTURER	02-07 -1997	11- 10-1998	1 Year 3 Months
2	Tamilnadu College of Engineering, Coimbatore.	LECTURER	12 - 10 - 1998	30- 06- 2003	4 Years 8 Months
3	Tamilnadu College of Engineering, Coimbatore.	SENIOR LECTURER	01 – 07 - 2003	31-05-2006	3 Years
4	SNS College of Technology, Coimbatore.	ASSISTANT PROFESSOR	07 – 07 - 2006	09 -05 -2008	1 Year 10 Months
5	Adithya Institute of Technology, Coimbatore.	ASSISTANT PROFESSOR	01 – 06 - 2008	12 - 06 -2009	1 Year

6	Sri Ramakrishna Institute of Technology, Coimbatore.	ASSISTANT PROFESSOR	18 – 06 - 2009	31.10.2012	3 Years 4 Months
7	Sri Ramakrishna Institute of Technology, Coimbatore.	ASSOCIATE PROFESSOR	01-11-2012	Till Date	3 Years 3 Months
Total (as on Feb 2016)					**18 Years 4 Months**

Funded Projects:

S. No.	Funding Agency	Topic	Amount Sanctioned in Rs.	Year of Sanction
NIL				

Consultancy Work:

S. No.	Organization/ Agency	Nature of Work	Amount in Rs.	Year
NIL				

Patents (Specify the details):

A DEVICE FOR DATA TRANSACTION BETWEEN ELECTRONIC GADGETS USING VISIBLE LIGHT COMMUNICATION

Patent Applied on 31.12.2015

Publications

Journals   :

1. Dr.P.Vetrivelan and E.Udayakumar, 2015, "PAPR Reduction for OQAM/OFDM signals by using Neural Networks" International Journal of Applied Engineering Research, Vol 10. No. 41.

2. Dr.P.Vetrivelan et al.,2015, "An analysis of Image compression using two out of two visual cryptography scheme", in the Australian Journal of Basic and Applied Sciences,9(27), Pp.677-680.

3. P.Vetrivelan and A.Kandaswamy, 2014, "Medical Image Denoising using Wavelet Based Ridgelet Transform", Springer link – Lecture Notes in Electrical Engineering (LNEE), vol.248, pp.235 – 243.

4. P.Vetrivelan et al, 2014, "Finger Vein Based User Identification Using Differential Box Counting", International Journal of Research in Computer and Communication Technology, vol.3, Issue 1, pp. 138 - 142.

5. P.Vetrivelan et al, 2014, "Finger Vein Recognition Using Differential Box Counting", International Journal of Latest Trends in Engineering and Technology, vol.3, Issue 3, pp. 1- 6.

6. P.Vetrivelan et al, 2013, "Medical Image Fusion using Ridgelet Transform", International Journal of Computer Applications, vol.3, pp. 21 - 25.

7. P.Vetrivelan and A.Kandaswamy, 2012,"Image Denoising using Wavelet Based Curvelet Transform", Archives Des Sciences, vol.65, no.10, pp. 100-109. (Annexure –I)

8. P.Vetrivelan and A.Kandaswamy, 2012,"Image Compression using Wavelet Based Curvelet Transform", Journal of Applied Sciences Research, vol. 8, no.11, pp. 5290-5297. (Annexure –II)

9. P.Vetrivelan and A.Kandaswamy, 2012, "Fusion of Medical Images using Curvelet Transform", International Journal of Recent Scientific Research, vol.3, Issue 7, pp. 621-626.

10. P.Vetrivelan et al, 2012, "An approach for DSP Routing in MANET Using Genetic Algorithm", International Journal of Recent Scientific Research, vol.3, Issue 7, pp. 647-651.

11. P.Vetrivelan and A.Kandaswamy, "Contourlet Based Digital watermarking", Coimbatore Institute of Information Technology - International Journal of Digital Image Processing, vol. 3, no.10, pp. 644-650, 2011.

12. P.Vetrivelan, Dr.S.Subha Rani and N.Malmurugan " Video Compression Standards : A Survey ", Proceedings of the National Journal of Technology, PSG College of Technology, Coimbatore, Tamilnadu,India,Vol.1, No.2,June 2005, pp 85-92.

International Conferences:

1. E.Udayakumar and Dr.P.Vetrivelan, "PAPR Reduction for OQAM/OFDM signals using Optimized Iterative Clipping and Filtering technique" in IEEE   International Conference on Soft Computing and Network Security at SNS College of Technology, Coimbatore during 25-27 February 2015.

2. P.Vetrivelan et al. "Image Compression using Ridgelet Transform", Proceedings of International Conference on Computing Techniques, Embedded Systems and Drives organized by School of Electrical Sciences, PPG Institute of Technology, Coimbatore, Tamilnadu, India. 7-9 March 2012, pp 341 – 347.

3. P.Vetrivelan et al. "Image Denoising using Curvelet Transform", Proceedings of International Conference on Computing Techniques, Embedded Systems and Drives organized by School of

Electrical Sciences, PPG Institute of Technology, Coimbatore, Tamilnadu, India. 7-9 March 2012, pp 7 – 11.

4. P.Vetrivelan et al. "Brain Tumor Detection using Watershed Segmentation", Proceedings of International Conference on Computing Techniques, Embedded Systems and Drives organized by School of Electrical Sciences, PPG Institute of Technology, Coimbatore, Tamilnadu, India. 7- 9 March 2012.

5. P.Vetrivelan et al, "Medical Image Fusion using Ridgelet Transform", Proceedings of International Conference on Innovations in Intelligent Instrumentation, Optimization and Signal Processing, organized by Karunya University, Coimbatore, Tamilnadu, India. 1- 2 March 2013, pp 446 – 450.

6. P.Vetrivelan et al, " Iris Recognition Using Curvelet Transform", Proceedings of International Conference on Innovations in Intelligent Instrumentation, Optimization and Signal Processing, organized by Karunya University, Coimbatore, Tamilnadu, India. 1- 2 March 2013, pp 423 – 428.

7. P.Vetrivelan et al, " Iris Recognition Using Ridgelet Transform", Proceedings of International Conference on Advanced Computing, Machines and Embedded Technology at J.K.K.Nattraja College of Engineering and Technology during 08-09 March 2013.

8. P.Vetrivelan et al, "Medical Image Fusion Using Curvelet Transform for MR and CT", Proceedings of International Conference on Advanced Computing, Machines and Embedded Technology at J.K.K.Nattraja College of Engineering and Technology during 08-09 March 2013.

National Conferences:

1. Dr.P.Vetrivelan et al., "An analysis of Image compression using two out of two visual cryptography scheme", in the ISRO sponsored national conference on remote sensing and satellite communication on 11th September 2015 at Tamilnadu College of Engineering.

2. Dr.P.Vetrivelan et al., "Segmentation of New Born Brain MRI" in National Conference on Advances in Technology & Science (NCATS'15) during 16 & 17 April 2015 at Info Institute of Engineering, Coimbatore.

3. Dr.P.Vetrivelan et al., "Segmentation and Classification of Oral Cancer Lesions in Colour Images using Texture Analysis and SVM" in National Conference on Advances in Technology & Science (NCATS'15) during 16 & 17 April 2015 at Info Institute of Engineering, Coimbatore.

4. P.Vetrivelan et al, "Image Denoising using Ridgelet Transform", Proceedings of Second National Conference on Recent Trends in Computing and Communication Technology organized by

Department of ECE, Hindusthan Institute of Technology, Coimbatore, Tamilnadu, India. 7 March 2012. (First Prize)

5. P.Vetrivelan et al, " Image Compression using Contourlet Transform", Proceedings of National Conference on Intelligence Techniques organized by Department of ECE, Karpagam Institute of Technology, Coimbatore, Tamilnadu, India. 12 March 2012.

6. P.Vetrivelan et al, " Image Denoising using Contourlet Transform", Proceedings of National Conference on Intelligence Techniques organized by Department of ECE, Karpagam Institute of Technology, Coimbatore, Tamilnadu, India. 12 March 2012.

7.   P.Vetrivelan et al, " Detection of Brain Tumor and its 3D vision using watershed segmentation", Proceedings of National Conference on Intelligence Techniques organized by Department of ECE, Karpagam Institute of Technology, Coimbatore, Tamilnadu, India. 12 March 2012.

Books Published: NIL

Seminar, Conference, Workshop Organized:

S.No.	Title	Duration	Level (Intern./ National)
1.	National Conference on Communication, Computation, Control and Automation (CCCA 2012)	9 - 10 March 2012	National Level
2.	National level Two Day Robotics Workshop	28.2.2013 & 01.03.2013	National Level
3.	Two Week ISTE workshop on "ANALOG ELECTRONICS"	04 – 14 June 2013	National Level
4.	National level Two day Robotics Workshop	27- 28 January 2014	National Level
5.	National Conference on Communication, Computation, Control and Automation (CCCA 2014)	28 -29 March 2014	National Level
6.	one day workshop cum Hands on training on "TI Analog System Design Lab"	24.11.2014	FDP
7.	one day workshop cum Hands on training on "TI Embedded System Design Lab"	25.11.2014	FDP

Seminar, Conference, Workshop Attended:

1. Participated in Two day ISTE workshop on "Aakash for Education", conducted by IIT Bombay at Sri Ramakrishna Institute of Technology, Coimbatore, during 10-11 November 2012.

2. Participated in One Week Coordinators workshop on "ANALOG ELECTRONICS" organized by NMEICT at IIT KHARAGPUR, during 1-5 April 2013.

3. Participated in one day National workshop on "Advanced Trends in Communication Techniques", organized by Department of ECE, Sri Ramakrishna Institute of Technology, Coimbatore, on 8 October 2013.

4. Participated in Two Week ISTE workshop on "SIGNALS AND SYSTEMS" organized by NMEICT – IIT KHARAGPUR at Sri Ramakrishna Institute of Technology, Coimbatore, during 02-12 January 2014.

5. Participated in Two Week ISTE workshop on "CONTROL SYSTEMS" organized by NMEICT – IIT KHARAGPUR at Sri Ramakrishna Institute of Technology, Coimbatore, during 2-12 December 2014.

6. Participated in One day Seminar on "Agilent Measurement Seminar", conducted by Agilent Technologies at The Residency, Coimbatore, on 17 July 2013.

7. Participated in Two days workshop on "outcome Based Education", conducted by BMS College of Engineering, Bangalore, during 2-3 August 2015.

Ph.D., Guidance / Supervisor ship:

Name of Scholar	Course	Area of Research	Status
NIL			

Guest Lectures Delivered:

Topic	Institution	Date(s)
Digital image Processing using MATLAB	Karpagam Institute of Technology	29 February 2012
Signals and Systems	Tamilnadu college of Engineering	18 October 2012
Digital Signal Processing	Tamilnadu college of Engineering	22 October 2012
A Tour on Signal Processing	Ranganathan Engineering College	21 January 2013
Laplace Transform Analysis of CT	Anna University Regional Centre	12 -18 June 2013

Systems	Coimbatore	
Finite Word Length Effects	Anna University Regional Centre Coimbatore	14 June 2014
Beyond Wavelets	RVS Technical Campus on	8 January 2016.

> Acted as Chair Person for paper presentation on National Conference titled "Telecommunication and Control Engineering" organized by Department of ECE, P PG Institute of Technology, on 06 January 2012.

> Acted as Jury for Best Engineer event on National Level Technical Symposium GENESIS'12 organized by Department of ECE, Sri Ramakrishna Engineering College, on 24 February 2012.

> Acted as Chair Person for paper presentation on International Conference titled "ICCED'12" organized by Department of ECE, P PG Institute of Technology, on 08 March 2012.

> Delivered Inaugural address for Technical Symposium at Kalaivani College of Technology on 01 March 2013.

> Acted as Judge for Science Exhibition Scilore V1 at Rathinam college of Arts and Science, on 04 December 2013.

> Acted as Chair Person for paper presentation on International Conference titled "EEICC2015" organized by Department of EIE, Karpagam College of Engineering, on 19 December 2015.

Membership in Professional Bodies:

1. Life Member of Institution of Electronics & Telecommunication Engineers (IETE) ::
   M -177663
2. Life Member of Indian Society for Technical Education (ISTE) :: **LM – 38440**
3. Life Member of International Association of Engineers (IAENG) - **161851**

Contributions to the Institution, Department and Society:

1. Vice Chairman for ECE Board - Anna University central Valuation.
2. Subject Expert Member - Project Review Committee.
3. Acted as one of the Internal Auditor members at Sri Ramakrishna Institute of Technology for Various Departments.
4. College Redressal and Review Committee Member.

5. Squad Member for College Anti ragging committee.

6. Nodal Officer for AICTE – BSNL Employability Enhancement Training Program.

7. Nodal Officer for Texas Instruments sponsored labs.

8. College Nodal Officer for e-governance for university.

9. College IETE students Forum (IETE-ISF) Coordinator from the date of origin.

10. Executive council member for ISTE college chapter.

11. Project Coordinator for ECE Department from the date of join to till date.

12. Assist to HOD in academic as well as administrative work.

13. Lab in-charge for DSP Lab and Project Lab.

14. ECE Association faculty advisor / In-charge since my date of joining.

15. Experts / Chief Guests have been arranged for the department function / Symposium /Seminars / workshops etc.

16. Accompanied the final year B.E - ECE-A & B students for an Industrial Visit to BSNL, Coimbatore.

17. Class Committee Chair person.

18. Executive council member for Faculty Club.

Awards and Recognitions:

1. Received "Outstanding Educator & Scholar award" from National Foundation for Entrepreneurship Development (NFED) on 5th Teachers' Day Awards & Celebration – 2014.

2. Secured First Prize in Paper Presentation in Second National Conference on Recent Trends in Computing and Communication Technology organized by Department of ECE, Hindusthan Institute of Technology, Coimbatore, Tamilnadu, India. 7 March 2012.