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# SAI RAM INSTITUTE OF TECHNOLOGY

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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Name : Dr. G.THAMARAI SELVI

Designation : HoD & PROFESSOR

Email : hodece@sairamit.edu.in

Qualification : Ph.D

Specialization : DSP, Image Processing

Research Interest : Medical Image Processing

Experience in years : **Teaching** UG  PG  **Industry**

No. of Workshop/Conferences/  
FDP attended : Workshop  Conferences  FDP

No. of Workshop/Conferences/  
FDP Organized : Workshop  Conferences  FDP



Professional Membership	ISTE, IEI
Publications	National : 02
	International: 05
	Book : -
Research Funded Projects	-
Patents	-

Achievements	<ul style="list-style-type: none"> <li>• Obtained 100% result in Digital Signal Processing</li> <li>• Obtained 100% result in Fundamentals of Computing</li> <li>• Obtained 100% result in Multimedia Systems</li> <li>• Obtained 100% result in Embedded &amp; Real Time Systems</li> <li>• Obtained 98% result in Digital Signal Processing</li> <li>• Helped in establishing well equipped Laboratories</li> <li>• Given a seminar on word processor for the faculty members</li> <li>• Organized a Workshop on “Research Methodologies”</li> <li>• Organized a National Conference NCNC’ 08</li> <li>• Acted as Single Point Of Contact for Infosys Technologies, Chennai</li> <li>• Acting as a College coordinator for ICT Academy, Chennai</li> <li>• Organized an FDP on Computer Networks</li> </ul>
Any Other Information	<ul style="list-style-type: none"> <li>• Acted as s Session Chair for the Paper Presentation in “2017 SECOND IEEE INTERNATIONAL CONFERENCE on COMPUTING AND COMMUNICATIONS TECHNOLOGIES (ICCCT’17)” was held on 23-02-2017 &amp; 24-02-2017.</li> <li>• Organized the Graduation day Event from 2013.</li> <li>• Organized Women’s day function in march 2015.</li> </ul>

### List of Publications:-

#### International Journals:

1. Thamarai Selvi, G & Duraiswamy, K 2013, ‘A Technique to Tumor Detection from Brain MRI Images Using FCM and Neuro-Fuzzy Classifier’, International Review on Computers and Software, vol. 8, no. 8, pp. 1931 – 1942. (Annexure II, Print ISSN: 18286003, SJR - 0.028).
2. Thamarai Selvi, G & Duraiswamy, K 2013, ‘Extraction of Tumor Image from MRI Images Using Gabor XOR Pattern’, International Journal of Electronics & Communication Engineering Research, vol. 1, no. 5, pp. 26 – 31.
3. Thamarai Selvi, G & Duraiswamy, K 2014, ‘ A Novel 3D Digital Shearlet Transform Based Image Fusion Technique using MR and CT Images for Brain Tumor Detection’, Middle East Journal of Scientific Research, vol. 22, no. 2, pp. 255 – 260. (Annexure II, Print ISSN 1990-9233).
4. Thamarai Selvi, G 2014, ‘A Novel Image Fusion Technique for Medical Images Based On Digital Shearlet Transform’, Asian Journal of Applied Sciences (ISSN: 2321 – 0893) Volume 02 – Issue 05, October 2014, pp. 777 – 783. (Annexure II).
5. Thamarai Selvi, G & Duraiswamy, K 2015, ‘Brain Tumor Segmentation and Classification from MRI Images Using RBFN’, International Journal of Applied Engineering Research (ISSN: 0973 – 4562), vol. 10, no. 75, pp. 194 – 199. (Annexure II).

#### National Journals:

1. Thamarai Selvi, G & Duraiswamy, K 2014, ‘Classification of Tumor from MRI

images using Gabor pattern', Journal of International Academic Research For Multidisciplinary, vol. 2, no. 2, pp. 670 – 679.

2. Thamarai Selvi, G & Duraiswamy, K 2014, 'A New Fuzzy Technique for the Segmentation And Detection of Brain Tumor from MRI images', Journal of International Academic Research For Multidisciplinary, vol. 2, no. 5, pp. 378 – 388

### **Workshop / Conferences / FDP Attended:-**

#### **WORKSHOP**

1. Attended the AICTE sponsored workshop in "Multimedia Technology and Applications" in August 2002 at PSG Polytechnic, Coimbatore.
2. Attended Workshop on "Embedded Systems and Networking" in January 2005 in January 2005 at Kumaraguru College of Technology, Coimbatore.
3. Attended Workshop on "Integrated Circuits & Microcontrollers" in December 2005 at K.S.Rangasamy College of Technology, Tiruchengode.
4. Attended Workshop on "Software Testing" in September 2006 at KSR College of Arts & Science, Tiruchengode.
5. Attended a Workshop on "Advanced networking & Security issues" in March 2007 at Kumaraguru College of Technology, Coimbatore.
6. Attended a Workshop on "Research Methodology in Computer Science" in August 2007 at K.S.Rangasamy College of Technology, Tiruchengode.
7. Attended "ISO Training Programme" in 2010 at Sri Sai Ram Institute of technology, Chennai.
8. Attended SDP on "Soft Computing and Artificial Intelligence" in September 2011 at Sri Sai Ram Institute of Technology, Chennai.
9. Attended a Workshop on "Research Methodologies" in January 2012 at Jerusalem College of Engineering, Chennai.
10. Attended a Workshop on "Outcome Based Accreditation" in May 2014 at RMK Engineering College, Chennai.

#### **CONFERENCES**

1. Presented a paper in the National Conference titled "EEG based Brain Computer Interface using DSP" in April 2004 at Noorul Islam College of Engineering, Kumaracoil.
2. Presented a paper in the National Conference titled "Conversion and recovery of color to gray Textured Image" in October 2006 at SNS College of Technology, Coimbatore.
3. Thamarai Selvi, G & Duraiswamy, K 2011, 'Segmentation of MRI images using Wavelet Transform', Proceedings of the First National Conference on

Communication and Networks (NCCOMNET'2011), Sri Sai Ram Institute of Technology, Chennai, India.

4. Thamarai Selvi, G & Duraiswamy, K 2013, 'Feature extraction of tumor images from MRI images using GLCM', Proceedings of National Conference on Fuzzy systems, Sri Sai Ram Institute of Technology, Chennai, India.
5. Thamarai Selvi, G & Duraiswamy, K 2013, 'Classification of brain tumor images using Neural Networks', Proceedings of National Conference on Fuzzy systems, Sri Sai Ram Institute of Technology, Chennai, India
6. Thamarai Selvi, G & Duraiswamy, K 2014, 'Feed Forward Network for Detection of Tumor from MRI Images', Proceedings of IRAJ Research Forum International Conference, ISBN : 978-93-82702-64-1, pp. 67 – 76, Chennai, India.
7. Thamarai Selvi, G & Duraiswamy, K 2014, 'Texture Analysis of tumor from MRI images using Gabor pattern', Proceedings of IRAJ Research Forum International Conference, ISBN: 978-93-82702-64-1, pp. 188 – 192, Chennai, India.
8. Thamarai Selvi, G & Duraiswamy, K 2015, 'A new technique for the segmentation and classification of brain tumor from MRI images using RBFN', Proceedings of 2015 IEEE International Conference on Computing and Communication Technologies (ICCT'15), pp.94 – 99, Chennai, India.
9. Thamarai Selvi, G & Duraiswamy, K 2015, 'Brain Tumor Segmentation And Classification From MRI Images Using RBFN', International Conference on Computing and Information Technology (ICCIT'15), Chennai, India.
10. Thamarai Selvi, G & Duraiswamy K 2014, 'MRI Brain Tumor Segmentation Using Clustering Algorithms', NCRTECC' 14, Sri Sai Ram Engineering College, Chennai, India.
11. Thamarai Selvi, G & Aishwarya R 2016, 'Wireless Sensor Networks For Emergency Medical Care' International Conference on Theory And Practical Relation In Engineering-ICTPRE-2016, Chennai, India.
12. Thamarai Selvi, G & Vijaya Gowri, G 2017, 'Detection Of RBC Agglutination In Blood Typing Tests Using Integrated Light Eye Technology (ILEyeT)', Proceedings of International Conference ICCST'17 Chennai.
13. Thamarai Selvi, G & Dhara Saravani 2017, 'Smart Refrigerator with Specific Temperature Sensing Using Fuzzy Controller', International Conference on Science, Engineering and Technology, Visakhapatnam, India
14. Attended a Conference on "Establishment of Entrepreneurship Development Cells in Higher Education Institutions in TamilNadu" on 21.12.12 at Chennai Trade Centre, Chennai.

## **FDP**

1. Attended SDP on “Multidisciplinary Research Workshop on Creativity Studies” in April – May 2006 at PSG College of Technology, Coimbatore.
2. Attended Short Term Training programme on “Recent Trends in Signal Processing” in March 2007 at K.S.R. College of Engineering, Tiruchengode.
3. Attended AICTE Sponsored SDP on “Soft Computing and Artificial Intelligence” in 2011 at Sri Sai Ram Institute of Technology, Chennai.
4. Attended a FDP on “Computer Networks: in January 2016 at Sri Sai Ram Institute of Technology, Chennai.
5. Attended a FDP on “Embedded and Real Time Systems” in June 2016 at Sri SaiRam Engineering College, Chennai.
6. Attended a FDP on “Modern Teaching and Learning methodologies for Competency Development” in June 2017 at Jeppiar Mamallan Institute of technology, Chennai.
7. Attended a FDP on “Optical Communication and Networking” in June 2017 at Sri SaiRam Engineering College, Chennai.
8. Attended a FDP on “Digital Image Processing, RF & Embedded Systems” in June 2017 at Sree Sastha Institute of Engineering and Technology, Chennai.

## **SEMINAR**

1. Attended a Seminar on “Recent Trends in Computing” in October 2006, at Periyar University, Salem.
2. Attended a seminar on “Fuzzy Image Processing” in January 2007 at Kongu Engineering College, Perundurai.
3. Attended an Education Programme on “MatLab for Engineering Applications” in March 2008 at PSG College of Technology, Coimbatore.
4. Attended ISO Awareness Fresher Programme in January 2009 at Dhanalakshmi College of Engineering, Chennai.

## **Workshop / Conferences / FDP Organized:-**

1. Organized a Workshop on “Research Methodologies”, January 2015.
2. Organized a Workshop on “Embedded systems and its Applications”, July 2016.
3. Organized a Workshop on “Intellectual Property Rights & Innovation”, March 2017.
4. Organized a Workshop on “Electronic Design and Embedded Systems”, July 2017.
5. Organized ISTE Sponsored FDP on “Electromagnetic Field Theory and Transmission Lines” in June 2015.
6. Organized an Anna University Sponsored FTDP on “Computer Networks”, January 2016.
7. Organized a National Conference National Conference on Communication Networks (NCCOMNET’11), October 2011.