

Research Profile

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Education:

Name of the Degree	Specialization	Year of Passing	Name of the College / University
Ph.D	Information and Communication Engineering	2017	Mepco Schlenk Engineering College, Sivakasi, Anna University, Chennai
M.E	Digital Communication and Network Engineering	2005	Arulmigu Kalasalingam College of Engineering, Krishnankoil, Anna Univeristy, Chennai
B.E	Electronics and Communication Engineering	1994	Government College of Engineering, Tirunelveli, Manonmaniam Sundaranar University, Tirunelveli

Publications:

Journals (along with impact factor if any):

INTERNATIONAL JOURNALS

1. **R. Meena Prakash**, R. Shantha Selva Kumari, 2017, "Spatial Fuzzy C Means and Expectation Maximization Algorithms with Bias Correction for Segmentation of MR BrainImages",Journal of Medical Systems,vol.41,no.1,ISSN:0148-5598.(Scopus Indexed, JCR Impact Factor: 4.460)

2. **R.Meena Prakash**, R.Shantha Selva Kumari, “Fuzzy C means integrated with spatial information and contrast enhancement for segmentation of MR brain images”, International Journal of Imaging Systems and Technology, vol.26, pp.116-123, June 2016, (*Scopus Indexed* , *JCR Impact Factor:2.0*)
3. **R.Meena Prakash**, R.Shantha Selva Kumari, “Gaussian Mixture model with the inclusion of spatial factor and pixel re-labeling: Application to MR Brain Image Segmentation”, Arabian Journal for Science and Engineering, August 2016, ISSN: 2193-567X. (*Scopus Indexed* , *JCR Impact Factor:2.334*)
4. **R.Meena Prakash**, R.Shantha Selva Kumari, “Edge Preserving Image Segmentation using Spatially Constrained EM algorithm”, The International Arab Journal of Information Technology, ISSN: 1683-3198. (*Scopus Indexed*, *JCR Impact Factor: 0.669*)
5. **R.Meena Prakash**, R.Shantha Selva Kumari, “Nonsubsampled Contourlet Transform based Expectation Maximization Method with Adaptive Mean Shift for Automatic Segmentation of MR Brain Images”, International Journal of Applied Engineering Research, Vol.10, No.1, 2015, pp.1228-1236 (*Scopus Indexed*).
6. C.Iswarya, **R. Meena Prakash**, R. Shantha Selva Kumari, “SAR Image Change Detection Using Gaussian Mixture Model With Spatial Information”, ARPN Journal of Engineering and Applied Sciences, Vol.10, No.9, May 2015, pp.3924-3929 (*Scopus Indexed*).
7. M.Vimala, **R. Meena Prakash**, R. Shantha Selva Kumari, “Segmentation Of SAR Images Using Fuzzy C Means With Non Local Spatial Information”, ARPN Journal of Engineering and Applied Sciences, Vol.10, No.8, May 2015, pp.3823-3827 (*Scopus Indexed*).
8. R. Meena Prakash, R. Shantha Selva Kumari, “Fast anisotropic filter based EM with spatial information for segmentation of noisy images”, The IIOAB Journal, Vol.7, No.3, pp. 66-76 (*Scopus Indexed*).
9. **R.Meena Prakash**, R.Shantha Selva Kumari, “A Survey on Methods of fully automated MR brain image segmentation”, International Journal of Neural Networks and Applications, Vol.4, No.1, January-June 2011,pp.13-18.

10. **R.Meena Prakash**, R.Shantha Selva Kumari, “Modified Expectation Maximization Method for Automatic Segmentation of MR Brain Images”, The MICCAI Grand Challenge on MR Brain Image Segmentation (MRBRAINS13), MIDAS journal, www.midasjournal.org/browse/publication/909.
11. **R. Meena Prakash**, R. Shantha Selva Kumari, M. Vimala, “Suppressed Fuzzy C Means with Adaptive Non Local Spatial Information for segmentation of Noisy Images”, Australian Journal of Basic and Applied Sciences, Vol.9, No.16, May 2015,pp.268-274.
12. **R.Meena Prakash**, A.R.Devi, P.Narayani, “Enhanced Packet Scheduling Scheme for Wireless Sensor Networks”, International Journal of Innovative Research in Computer and Communication Engineering, Vol.2, No.1, 2014,2476-2481.

INTERNATIONAL CONFERENCES

1. **R Meena Prakash**, N Thenmozhi, M Gayathri “Face Recognition with Convolutional Neural Network and Transfer Learning” in the 2019 International Conference on Smart Systems and Inventive Technology (ICSSIT) at Einstein College of Engineering, Tirunelveli during 27th November 2019. (Available in IEEE Xplore)
2. **R Meena Prakash**, R Shantha Selva Kumari “Classification of MR Brain Images for Detection of Tumor with Transfer Learning from Pre-trained CNN Models” in the 2019 International Conference on Wireless Communications Signal Processing and Networking (WiSPNET) held at SSN College of Engineering, Chennai during 21st March 2019. (Available in IEEE Xplore)
3. **R Meena Prakash**, GP Saraswathy, G Ramalakshmi, KH Mangaleswari, T Kaviya “Detection of leaf diseases and classification using digital image processing” in the 2017 international conference on innovations in information, embedded and communication systems (ICIIECS) at Karpagam College of Engineering, Coimbatore during 17th March 2017. (Available in IEEE Xplore)
4. **R Meena Prakash**, T Deepa, T Gunasundari, N Kasthuri “Gesture recognition and finger tip detection for human computer interaction” in the 2017 international conference on innovations in information, embedded and communication systems (ICIIECS) at Karpagam College of Engineering, Coimbatore during 17th March 2017. (Available in IEEE Xplore)

5. **R Meena Prakash**, K Bhuvaneshwari, M Divya, K Jamuna Sri, A Sulaiha Begum “Segmentation of thermal infrared breast images using K-means, FCM and EM algorithms for breast cancer detection” in the 2017 international conference on innovations in information, embedded and communication systems (ICIIECS) at Karpagam College of Engineering, Coimbatore during 17th March 2017. (Available in IEEE Xplore)
6. **R.Meena Prakash**, K.Ramalakshmi, R.Shantha Selva Kumari “Millimeter Wave Imaging Technology and its Applications” in the IETE Zonal Seminar on Recent Trends in Millimeter and Centimeter Wave Communications at Mepco Schlenk Engineering College, Sivakasi during 15-16, February 2013.
7. **R.Meena Prakash**, R.Shantha Selva Kumari “Nonsubsampled Contourlet Transform based Expectation Maximization Method for Segmentation of Images” in the International Conference on Machine Vision and Image Processing (MVIP12) at PSG College of Technology, Coimbatore during 14-15, December 2012. (Available in IEEE Xplore – ISBN978-1-4673-2319-2).
8. **R.Meena Prakash**, “Automatic Attendance System using Face Recognition” in the 7th International Conference on Emerging Trends in Engineering and Technology (ICETET’20) held on 13th and 14th March, 2020 at Pandian Saraswathi Yadav Engineering College, Sivagangai.
9. **R.Meena Prakash**, R.Shantha Selva Kumari “A Simplified Gabor Wavelets with Fuzzy C Means Threshold for Brain Tumour Detection in Magnetic Resonance Images” in the International Conference on Emerging Trends in Computing (ICETC 2011) during 17-18, March 2011 at Sri Ramakrishna Engineering College, Coimbatore.
10. **R.Meena Prakash**, S.Thayammal “DSP Implementation of Edge Detection Algorithm” in the National Conference on Advanced Communication Technology (NCACT 09) at SASTRA University, Kumbakonam during 29-30, January 2009.
11. **R.Meena Prakash**, “Image Restoration in Astronomy using Bayesian Strategy : Processor Implementation of Richardson Lucy Algorithm” in the National Conference on Emerging Technologies in Electronics and Communications (NCETEC 2005) at Bharath Institute of Higher Education & Research, Chennai during 18-19, March 2005.

12. **R.Meena Prakash**, “The Current Trends in Biomedics” in ISTE National Seminar on Recent Advancement in Engineering and Technology at Mepco Schlenk Engineering College, Sivakasi on October 31,2001.

Awards/ Recognitions:

- Life time membership in IETE and IE(India)

Journals Reviewer

- Journal of Healthcare Engineering
- Journal of Magnetic Resonance Imaging
- IEEE Journal of Biomedical and Health Informatics
- Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization
- IEEE Access
- Measurement and Control
- Biomedical Research
- The Imaging Science Journal

Anna University supervisor Recognition Number: 3140033