



# SRM Valliammai Engineering College


(An Autonomous Institution)

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## Department of Electronics and Communication Engineering

### Personal Details

<b>Name :</b>	Dr. J. Mohan		
<b>Designation :</b>	Associate Professor		
<b>Educational Qualification :</b>	B.E., M.Tech., Ph.D.		
<b>Experience:</b>	20 years 06 months		
<b>Area of Specialization :</b>	Bio-medical Signal and Image Processing, VLSI Design and Embedded System		
<b>Date of Joining :</b>	06.06.2015		
<b>Email ID :</b>	mohanj.ece@valliammai.co.in,jaimohan12@gmail.com		
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### Educational Details

S.No	Degree	Branch/Specialization	Institution / University	Year
1	B.E.	Electronics and Communication Engineering	Anjalaiammal Magalingam Engineering college/Bharathidasan University,Trichy,Tamilnadu	1999
2	M.E.	Applied Electronics	Sathyabama University Chennai, Tamilnadu	2005
3	Ph.D.	Information & Communication Engineering	Annauniversity, Chennai, Tamil Nadu.	2014

### Professional Society Memberships

1. Indian Society for Technical Education (ISTE) - Life Member
2. Institute of Electrical and Electronics Engineers (IEEE) -92127884
3. IA Eng International Association of Engineering – Life Member.
4. Institution of Electronics and Telecommunication Engineers-Fellow
5. Computer Society of India (CSI) – Life Member

### Publication Details

#### Journals:

1. **Mohan, J**, Krishnaveni, V & Yanhui Guo 2014, ‘A survey on the magnetic resonance image denoising methods’, *Elsevier - Biomedical Signal Processing and Control*, vol. 9, pp. 59-69. (**Impact Factor: 1.532**)
2. **Mohan, J**, Krishnaveni, V & Yanhui Guo 2013, ‘MRI denoising using non local neutrosophic set approach of Wiener filtering’, *Elsevier - Biomedical Signal Processing and Control*, vol. 8, no.6, pp. 779-791. (**Impact Factor: 1.532**)
3. **Mohan, J**, Krishnaveni, V & Yanhui Guo 2013, ‘ A new neutrosophic approach of Wiener filtering for MRI denoising’, *Measurement Science Review*, vol. 13, no.4, pp. 177-186. (**Impact Factor:**

**1.233)**

4. **Mohan, J**, Krishnaveni, V & Yanhui Guo 2012, 'Performance comparison of MRI denoising techniques based on neutrosophic set approach', *European Journal of Scientific Research*, vol. 86, no.3, pp. 307-318.
5. **Mohan, J**, Thilaga Shri Chandra, AP, Krishnaveni, V & Yanhui Guo 2012, 'Evaluation of Neutrosophic set approach filtering technique for image denoising', *International Journal of Multimedia & its applications*, vol. 4, no.4, pp. 73-81.
6. **Mohan, J**, Krishnaveni, V & Yanhui Guo 2012, 'Performance Analysis of Neutrosophic set approach of median filtering for MRI denoising', *International Journal of Elec. and Commn. Engg & Tech.*, vol. 3, no. 2, pp. 148-163.
7. Ravi Sekhar Yarrabothu, **J.Mohan** 2015 A Survey Paper O n 5G Cellular Technologies Technical & Social Challenges, *International Journal of Emerging Trends in Electrical and Electronics (IJETEE –ISSN: 2320-9569)* Vol. 11, Issue. 2, pp 64-71
8. Madhubala.P.K , **J.Mohan** 2015' Analysis Of Joint Beamforming, Power And Channel Allocation In Underlay Miso Cognitive Radio Networks' *International Journal of Applied Engineering Research* vol 10,no 87 Pp.163-168.
9. Madhubala.P.K , **J.Mohan** 2016 'Powerchannel allocation and PAPR Reduction in underlay MIMO Cognitive Radio Networks', *International Journal of Research and Reviews in Applied Sciences and Engineering*, Vol 8,No 1 Pp 68-73.
10. Naveen Santharuban.S, **J.Mohan** 2016,' Smart Filtenna for Cognitive Radio Application'. *International Journal of Advanced Engineering and Global Technology*,Vol 04,No 01,Pp 16781682.
11. Naveen Santharuban.S, **J.Mohan** 2016 , ' Smart T- Slot Filtenna for Cognitive Radio Application', *International Journal of Research and Reviews in Applied Sciences and Engineering*, Vol 8,No 1,Pp 74-80.
12. Naveen Santharuban.S,**J.Mohan**. 2016,' Smart UWB T- Slot Filtenna for Cognitive Radio Application' ,*International Journal of Emerging Technology in computer science & Electronics*,Vol 22,No 2, Pp-195-203.
13. N. Parthiban, **J.Mohan** 2017 ' Restoration of Hazy using color analysis and depth Estimation with Bi-orthogonal wavelet transform technique',*International journal of trend in research and development International*.Vol.No 4(3),Pp-175-181.
14. G.Dheiva Sudarsini,S.Abinaya,s Abdul Rahuman,B Arun Kumar **J Mohan**. 2018 'An Efficient Recognized Locker System Using Image Processing ' *International journal of trend in research and development International journal for Scientific Research & development* Vol.No 6(01) Pp245-251.
15. Shweta Haran,Raga Iswariya.S,Vignesh Kamsan N,**J.Mohan**.2019. 'Designing of a Portable Hemoglobinmeter using Raspberry PI', *International Research Journal of Engineering and Technology*. Vol 06 ,No.3.Pp 1-6.
16. A.Ramadevi,A.Sanmugapriyan,Dtamilaruvi,**J,Mohan**.2019. 'Rescue of Psychological Infirmity People using Wireless Network', *International Research Journal of Engineering and Technology*. Vol 06 ,No.3.Pp 1364-69.
17. M I. Anju **J.Mohan** 2019,"FPGA Implementation Of Radix-2 FFT Processor Based On CORDIC Algorithm For Electromyography" *i-manager's Journal on Digital Signal Processing*, December-2019,Vol 03,No.1 Pp 024-034.

18. R.Geetha, **J.Mohan**, "Spinal cord tumor classification using Deep Convolution Neural Network ", *i-manager journal on Image Processing*, December-2019, Vol 13, No.1 Pp 045-053.
19. Geetha raja and **J.Mohan**, 'Hybrid Techniques for MRI spine Images Classification', *Journal of Scientific & Industrial Research*, Vol.79, pp.829-832, Sep 2020.
20. Geetha R and **J.Mohan**, 'Support Vector Machine for Classification of Spinal Cord tumor', *i-manager's journal on Image Processing*, vol 7. No. 1, pp. 40-43, Mar 2020.
21. Geetha R and **J.Mohan**, 'Hybrid Techniques for MRI Spine Images Classification ', *Journal of Scientific & Industrial Research*, vol 79. No. 1, pp. 829-834-43, Sep 2020. (**Impact Factor: 0.53**)

#### Conferences:

1. **Mohan, J**, Krishnaveni, V & Yanhui Guo 2015, Automated Brain Tumor segmentation on MR images based on Neutrosophic Set Approach, Accepted to present in *IEEE 2<sup>nd</sup> International Conference in Electronics and Communication Systems* during 26-27 Feb 2015.
2. **Mohan J** & Selva Kumar V 2014, 'Multiple Single Input Change Test Vector for BIST Schemes', in *Proceedings of the IEEE International Conference on Green Computing, Communication and Electrical Engineering*, Coimbatore India.
3. **Mohan, J**, Krishnaveni, V, Yanhui Guo & Kanchana Jeganathan 2012, 'MRI Denoising based on Neutrosophic Wiener filtering', in *Proceedings of the IEEE International Conference on Imaging Systems and Techniques, University of Manchester, Manchester, UK*, pp. 327-331.
4. **Mohan, J**, Krishnaveni, V & Yanhui Guo 2012, 'Validating the Neutrosophic Approach of MRI Denoising based on Structural Similarity', in *Proceedings of the IET Image Processing Conference, University of Westminster, London, UK*, pp. 1-6.
5. **Mohan, J**, Thilaga Shri Chandra, AP, Krishnaveni, V & Yanhui Guo 2012, 'Image Denoising based on Neutrosophic Wiener Filtering' in *Proceedings of the Advances in Computing & Inform. Technology*, AISC, ed. N. Meghanathan et al, Springer-Verlag Berlin Heidelberg, vol. 177, pp. 861-869.
6. **Mohan, J**, Krishnaveni, V & Yanhui Guo 2011, 'A Neutrosophic Approach of MRI Denoising', in *Proceedings of the IEEE International Conference on Image Information Processing, Simla, India*, pp. 1-6.
7. N. Parthiban, **J Mohan**. 2017 'Visibility Restoration of Hazy using color analysis and depth Estimation with Refined transform' ICECC-2017 ISBN -978154408275 India, pp. 106-112
8. Debnita Kar, Doriet Cha, **J.Mohan**. 'Detection of psychological stress in a pregnant women using Fuzzy Logic in Neural Network'. NCECC-2017. National Conference, India, Pp 204-208.
9. M I. Anju, **J.Mohan**, "FPGA Implementation of Radix-2 FFT Processor based on Cordic algorithm for Electromyography", International Conference on smart automation in computer, Electrical, Electronics and communication Engineering (ICSA 2k19) Sept 2019'
10. R.Geetha, **J.Mohan**, "Spinal cord tumor classification using Deep Convolution Neural Network ", International Conference on smart automation in computer, Electrical, Electronics and communication Engineering (ICSA 2k19)'

#### Research and Development Details

1. No. of Research Projects Completed: Nil
2. No. of Patents Filed: Nil
3. No. of Ph.D candidates guided/guiding: 2

1. Ms Anju M I(Reg. No. - 17294997307) 2018- Part Time Research Scholar. Anna University, Chennai
2. Ms Geetha R (Reg. No. - 18234991439) 208-Full Time Research Scholar. Anna University, Chennai

• *Centre for Research, Anna University, Chennai recognized as a Supervisor (Ref. No: 2640055) for guiding Ph.D. and M.S.(By Research) scholars of this university under the Faculty of Information & Communication Engineering in the field of Bio-medical Signal and Image Processing, VLSI Design and Embedded System*

**4. No of Conferences Convened:Nil**

### Other Particulars

**1. No. of Books Published:**

1. Two chapters are contributed in the 'Neutrosophic Set in Medical Image Analysis'. Elsevier Publishers-2019.

**2. Citation Indices:**

Reference: <https://scholar.google.co.in/citations?user=LbWYeMAAAAJ&hl=en>

**3. Reviewed**

*Elsevier-Biomedical Signal Processing and Control, International Journal of Imaging Systems and Technology, Annals of Fuzzy Mathematics and Informatics, Neural Computing and Applications and etc.,*

**2. No. of STTP/FDP coordinated: Nil**