

Name	Dr. S. SAJU			
Contact (office)	Head of the Department Department of Electronics and Communication Engineering M.I.E.T. Engineering College Trichy.			
Email	ece.hod@miet.edu			
Educational Qualifications	DEGREE	EDUCATIONAL INSTITUTION	BOARD/ UNIVERSITY	YEAR OF PASSING
	Ph.D.	Annamalai University	Annamalai University	2017
	M.E.	Annamalai University	Annamalai University	2012
	B.E.	Annamalai University	Annamalai University	2004
Professional Career Profile	Organization	Designation	Date of Joining	Duration of work
	M.I.E.T. Engineering College, Trichy	Associate Professor	01.06.2023	Till Date
	Arasu Engineering College	Associate Professor	April 2021	June 2023
	Dr. Mahalingam College of Engineering and Technology, Pollachi	Associate Professor	June 2019	30.03.2021
	VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad	Associate Professor	August 2016	May2019
	Saranathan College of Engineering, Trichy	Assistant Professor	June 2012	July 2016
	R.V.S. College of Engineering & Technology	Lecturer	September 2006	April 2010
	Dr. Pauls Engineering College, Puducherry	Lecturer	May 2004	August 2005

Membership in Professional Bodies	International Association of Engineers	Member id:325952
	Institute for Engineering, Research and Publication	Member id:PM24305698
	European Association for signal Processing (EURASIP)	Member id: 8080
	Association for information and Image Management (AIIM)	Lifetime member
	International Association of Online Engineering (IAOE)	Basic Member
	Member of Indian Society for Technical Education (MISTE)	Annual Member
Academic Areas of Interest	Image Processing, Control System, Signals and Systems, Medical Electronics	
Administrative Capabilities	<ul style="list-style-type: none"> ➤ Department level NBA Coordinator during the year 2016-2018.. ➤ Worked as Head of the Department from 2019 onwards . ➤ Published Two Patents in the field of Electrical and Biomedical Engineering ➤ Set up different laboratories related to the department of Biomedical Engineering.. 	

LIST OF PUBLICATIONS

- **Dr.S.Saju¹**, Dr.M.Marimuthu², Dr.G.Thirugnanam³,” Investigation Of Hybrid Transform For Biomedical Image Watermarking And Extraction Using Fast Ica”, Journal of Emerging Technologies and Innovative Research, ISSN: 2349-5162, Volume.9, Issue12December 22, pp.no:a270-a278.
- Bavadharani.J¹, **Dr.S.Saju²**, “Timing -Error -Tolerant”, International Journal for Science and Advance Research In Technology, Vol.8, Issue 7, ISSN2395-1052, July 2022, pp no:265-268.
- **Dr.S.Saju**, M.Sivasri, S.Suruthi, K.Atchaya, R.Lakshmi Prabha, “Multimodality data fusion for rice disease detection”, International Journal of Innovative Science, Engineering & Technology, Volume 9, Special Issue, May 2022, pp.209-217.
- **Dr. S. Saju¹**, Mrs. S. Priyadharsini², Mr. A. Sriram³, “Review of 6G Communication in Haptic Technology” Advances in Dynamical Systems and Applications. ISSN 0973-5321, Volume 17, Number 1, (2022) pp. 243-252.

- **S.Saju¹, Vijayakumar², G.Thirugnanam³** "Stochastic Optimization Technique for Digital Image Watermarking" Journal of Mathematics Information and computational Science, VOL.9Issue.10, October 2019, ISSN 1548-7741, PP.865-877 (SCOPUS Indexed 2004-2015, UGC CARE-A Journal Listed)
- **S.Saju, Marimuthu Praveena, Dr.Vijayalakshmi,** "Discrete Controller for Zeta Converter", "Journal of Applied Science and Computations" JASC, ISSN 1076-5131, Volume V, Issue XI, November 2018. (UGC Approved).
- **S.Saju¹, G.Thirugnanam²,** "Metaheuristic Technique for Biomedical Image" International Conference on Innovations in Engineering, Technology and Sciences- (ICIETS) catalog "CFP18Q63-PRT-978-5386-7321-8" on Sep 20th and 21st 2018.
- **S.Saju, Malleti Sreedhar,** "Prototype Development of Smart Sensor based Contamination Detection in Consumable Water Quality" International Journal of Electronics, Electrical and Computational System, IJEECS, ISSN 2348-117X, Volume 6, Issue 12, December 2017.(Scopus)
- **S.Saju, G.Thirugnanam,** "Performance Analysis of image watermarking using contourlet transform and extraction using ICA" Journal of Computers ISSN 1796-203X, 2015. (Anna University Annexure-1; 2012-2015).
- **S.Saju, G.Thirugnanam,** "Optimized Algorithm for Gray Image Watermarking and Decryption using Maximum Likelihood" IS&T & SPIE ISSN 1017-9909 (Anna University Annexure-1:Acceptance Confirmed)
- **S.Saju, G.Thirugnanam,** "Performance Analysis of DWT, Contourlet, Hybrid SVD for Image Watermarking and Extraction Using Independent Component Analysis" International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.87 (2015) (Anna University, Annexure-2).
- **S.Saju, G.Thirugnanam,** "Contourlet Transformation based Gray Image watermarking and Extraction Using Independent Component Analysis" International Journal of Applied Engineering Research, (Anna University, Annexure-2).
- **S.Saju, G.Thirugnanam,** "Contourlet based biometric image watermarking for copyright protection and extraction using ICA" ARPN Journal of Engineering and Applied Sciences - ISSN 1819-6608, (Anna University, Annexure-2)

- **S.Saju, G.Thirugnanam**, "Robust Medical Image Watermarking Based on Contourlet and Extraction using ICA", Elixir International Journal-ISSN:2229-712X, Vol.82 (2015) PP.32670-32674.
- **S.Saju, G.Thirugnanam**, "Contourlet based Image Watermarking and Extraction using Independent Component Analysis" International Journal of Applied Engineering Research (Anna University, Annexure-2) Volume-09, November 20, 2014.
- **S.Saju, H.Chitra**, "An intelligent Control System for Pulverised coal Feeder-Real Time Approach" in IJAREEIE, volume 4, Issue 4, April 2015.
- **S.Saju, Hemamalini, Bhuvaneswari and vasugi**, "Real time approach of piezo actuated beam using G-Programming" in IJSER Vol.5.Issue:2 February'14 edition ISSN2229-5518.
- **S.Saju, Hemamalini, Bhuvaneswari and Vasugi** "Real time approach of piezo actuated beam for wireless seismic measurement using G-programming" in IJRET Vol.3 Issue.2 February 2014.
- **S.Saju, Revathy, Vasugi** "Real Time Dynamic Response analysis of higher order process (SOPTD) using PSCTR" in IJAREEIE Vol.3, Issue.3 March'14.
- **S.Saju, Revathy, Suganya**, "Modeling and control of liquid level non-linear interacting and non-interacting system", International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Vol.3 Issue.3 2014 March 2014.

SEMINAR/WORKSHOP/TRAINING PROGRAM

- Participated Faculty Development Programme titled as "Accreditation and Outcome based Learning" during August to October 2019 conducted by NPTEL-AICTE Faculty Development Programme.
- Participated three days hands-on Workshop on "Instrumental methods of Analysis" during 24th to 26th January 2019 in the Department of Energy and Environment, National Institute of Technology, Tiruchirappalli

- Participated in Two day National Seminar on "Recent Trends in Laser Technology and its Applications" Sponsored by the All India Council for Technical Education and organized by the department of Electronics and Instrumentation Engineering, VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad during 29th and 30th of November 2017.
- Successfully completed an AICTE approved Two Week Faculty Development Programme (FDP101x) on Foundation Program in ICT for Education conducted by Indian Institute of Technology Bombay from August 3, 2017 to September 7, 2017.
- Participated in Two day National Seminar on Recent Trends in Controller Design and System Identification '15(RTCDSI'15) organized by the department of Electronics and Instrumentation Engineering, Saveetha Engineering College, Chennai during 20th and 21st February 2015.
- Attended a Short Term Training Program on Emerging Trends in Image Processing and its Applications approved by ISTE during 8th to 12th December 2014 at department of Electronics and Instrumentation Engineering, FEAT, Annamalai University, Annamalai Nagar, Tamilnadu, India.
- Attended Staff Development program on Graphical System Design at P.S.G. College of Engineering and Technology, Coimbatore.
- Participated the workshop about Optimization Techniques at Vellamal College of Engineering, Madurai.
- Organised and presented the paper about New trends in GUI-Labview Interface at R.V.S. College of Engineering and Technology, Dindigul.
- Participated two days training program titled as National Instruments Labview Software and Hardware conducted by National Instruments India during June 24th and 25th 2013 at Saranathan College of Engineering, Tiruchirapalli.
- Attended the Educators day conducted by National Instruments during the year 2008, 2009, 2010 and 2013.
- Participated in three day Workshop on "Graphical System Design Platform for Teaching and Research using Labview" during 22nd to 24th November 2012 at

National. Institute of Electronics and Information Technology, Chennai in association with National Instruments, Bangalore.

- Participated in Two day National Seminar on Application of Fuzzy Logic in Image Processing (AFLIP-2012) held during 31st August to 01st September 2012 at Kongu Engineering College, Perundurai, Erode.
- Participated in the National Symposium on Instrumentation and Control organized by the Central Instrumentation Research and Service Department, University of Madras, Guindy campus, Chennai-600025, India.
- Undergone In-plant Training at FACT-Cochin for the duration of 2nd June'11 to 2nd July'11.
- Participated in the final Round of TechTop 2010, a national Innovation contest for Engineering Students, held at Technopark, Trivandrum on 30th and 31st July 2010.
- Successfully completed the course titled as "Accreditation and outcome based learning" conducted by Indian Institute of Technology-Kharagpur (Online Certification 8 Week course) during the period August-October 2019.
- Participated as Chief Guest-National Conference on "Advanced Communication and Power system NCACCPS" 2K18 on 23.03.2018 at St. Joseph College of Engineering and Technology, Thanjavur, Tamilnadu, India.
- Presented a Guest Lecture on Control System on 15.03.2019 in the Department of Electrical and Electronics Engineering, Excel College of Engineering and Technology, Namakkal.

INTERNATIONAL CONFERENCE

- **S.Saju¹**, *G.Thirugnanam²*, "Metaheuristic Technique for Biomedical Image" International Conference on Innovations in Engineering, Technology and Sciences- (ICIETS) organized by NIE Institute of Technology, Mysuru on Sep 20th and 21st 2018.
- **S.Saju**, *Malleti Sreedhar*, "Prototype Development of Smart Sensor based Contamination Detection in Consumable Water Quality" in the 1st International Conference organized by Joginpally B.R. Engineering College, Hyderabad, India in

association with Conference Info and Academic Science on 28th and 29th December 2017.

- **S.Saju¹, G.Thirugnanam²** "Performance Analysis of image watermarking using contourlet transform and extraction using ICA" International Conference on computer Engineering (ICOCE-2015) organised by South Asia Institute of Science and Engineering, UAE, Dubai on 17th and 18th on October 2015.
- **S.Saju¹, G.Thirugnanam²** "Contourlet based biometric image watermarking for copyright protection and extraction using ICA" First International Conference on modeling, Simulation and control (ICMSC-2015)" organised by department of Mechanical Engineering Karpagam College of Engineering, Coimbatore-641032. On 15th and 16th October 2015.
- **S.Saju¹, G.Thirugnanam²** "Robust Medical Image Watermarking Based on Contour let and Extraction using ICA" International Conference on Research and Development in Information and Communication Technology 2015 organised by Department of Computer Applications, EGS Pillay Engineering College, Nagapattinam held on 8th and 9th May 2015.
- **S.Saju¹, G.Thirugnanam²** "Contourlet Based Image Watermarking and Extraction using ICA" International Conference on Pattern Recognition and Multimedia Signal Processing-2015 organised by Department of Computer Science Engineering, Annamalai University held on 9th and 10th January 2015.

National Conference

- **S.Saju¹** "Real time transient response analysis of non-linear process" DRDO Sponsored second national conference "Control, Communication, and System Engineering" organised by Department of Instrumentation Engineering Tamilnadu College of Engineering, Coimbatore held on 12th and 13th September 2014.
- **S.Saju¹, DIlip kumar²** "Modeling and control of non linear process based on predictive control" Second National Conference on "Emerging trends in instrumentation and process control" organised by Department of Electronics and

Instrumentation Engineering M.A.M. College of Engineering. Trichy held on 22nd and 23rd march 2012.