

PERSONAL DETAILS

Name of the Faculty Member	Dr.A.Shenbagavalli	
Designation	Professor /ECE & Dean (Academic)	
Department	Electronics and Communication Engineering	
Date of joining the institution	04.07.1988	
Address for Communication	96A9, Vakkil street, kovilpatti-628503	
Email ID	a_shenbagavalli@nec.edu.in	

EDUCATIONAL QUALIFICATION

S.NO.	QUALIFICATION	INSTITUTION STUDIED	UNIVERSITY / BOARD	YEAR OF PASSING
1	B.E. (ECE)	Thiagarajar College of Engineering, Madurai	Madurai Kamarajar University	1986
2	M.E./M.Tech.	PSG College of Technology, Coimbatore	Bharathiyar University, Coimbatore	1993
3	Ph.D.	A.C. Tech, Karaikudi	Anna University, Chennai	2010

EXPERIENCE

S.NO.	NAME OF THE INSTITUTION / ORGANIZATION	POSITION HELD	FROM	TO	EXPERIENCE	
					Y	M
1	National Engineering College	Professor	11.12.2009	Till Date	13	1
2	National Engineering College	Associate Professor	01.06.2007	10.12.2009	2	6

3	National Engineering College	Assistant Professor	01.07.1999	31.05.2007	7	11
4	National Engineering College	Senior Lecturer	01.07.1996	30.06.1999	3	5
5	National Engineering College	Lecturer	29.07.1987	30.6.1996	8	6
TOTAL EXPERIENCE					35	10

Administrative Responsibilities - Dean Academic from 03/06/2023

FUNDED PROJECT / CONSULTANCY WORK UNDERTAKEN				
S.NO.	NAME OF THE PROJECT AND FUNDING ORGANIZATION	DURATION WITH YEARS	AMOUNT SANCTIONED	RESPONSIBILITY
1	Artificial Intelligence based Computer Aided Detection for Medical Application - IGCAR	2012-2015	Rs.15,83,040	Principal Investigator
2	Modernization and Up gradation of IC and Microprocessor Lab - AICTE	2013-2014	Rs.12,00,000	Principal Investigator
3	Some studies on Non Cooperative Target Classification algorithm using Statistical techniques. Electronics and Radar Development Establishment, DRDO, Bangalore.	2016 - 2018 (18 Months)	Rs. 9,85,000	Principal Investigator

LIST OF INTERNATIONAL JOURNAL PUBLICATIONS	
1	A.Shenbagavalli , L.Ganesan, "Adaptive algorithm to reduce computational complexity in Video coders", International Journal of Computer Science and Network Security, Vol. 8, No.7, pp 292-295, 2008.
2	A.Shenbagavalli , L.Ganesan, K.Ramar, "Motion estimation for video compression", International Journal of Intelligent Information processing, 2009.
3	A.Shenbagavalli , L.Ganesan, N.Sriram, "Patient video compression for telemedicine applications using SSI prediction approach", International Journal of Bio Medical Signal Processing, Vol.1 No.1, pp.35-38 2010.
4	A.Shenbagavalli, L.Ganesan, K.Ramar , "Video compression using interpolation and extrapolation", AMSE, France, Vol.1 pp.1-5, 2010.
5	Ms.B.Narani, Dr.A.Shenbagavalli, "Image Registration by Feature based Information Fusion", International Journal of Computer Applications, Vol.1, no.2, pp 12-15, 2012 (Impact Factor 0.814).
6	Dr. A. Shenbagavalli, T. Rajagopal, "A Survey of Video Encryption Algorithms Implemented In Various Stages of Compression", International Journal of Engineering Research & Technology. Vol. 2, Issue 2, pp1-12 Feb - 2013.

7	Mr.T.Rajagopal, Dr.A.Shenbagavalli, "Partial Video Encryption Using Random Permutation Based on Modification on DCT Based Transformation", International Journal of Engineering Research & Technology, Vol.2, Issue 2, pp1-12, 2013. (Impact factor 0.998)
8	Dr. A. Shenbagavalli, T. Rajagopal, "Design of On The Fly Encryption Algorithm in Video Compression Standard", International Journal of Communication and Computer Technologies. Vol. 2, Issue 7, April 2014
9	Dr. A. Shenbagavalli, T. Rajagopal, "Design of On The Fly Encryption Algorithm in Video Compression Standard", International Journal of Communication and Computer Technologies. Vol. 2, Issue 7, April 2014
10	Dr. A. Shenbagavalli, T. Rajagopal, "Design of On The Fly Encryption Algorithm in Video Compression Standard", International Journal of Communication and Computer Technologies. Vol. 2, Issue 7, April 2014
11	Mr.D. Kesavaraja, Dr.A. Shenbagavalli, "Cloud Opentsack Map Reduce Fastvideo Transcoding as a Service with Qos", Middle-East Journal of Scientific Research, DOI: 10.5829/idosi.mejsr.2015.23.09.22427, 2015.
12	Mr.D. Kesavaraja, Dr.A. Shenbagavalli, "Implementation of Hadoop Video Transcoding and Open stack SWIFT Video Streaming as a Service", Australian Journal of Basic and Applied Sciences, Vol.9(16), pp 449-456,2015.
13	D. Kesvaraja, Dr. A. Shenbagavalli, "Scalable Cloud video broadcasting as a service with enhanced quality using open stack SWIFT", International Journal of Applied Engineering Research, Vol.10, No. 20, 2015
14	D. Kesvaraja, Dr. A. Shenbagavalli, "Scalable video transcoding with Hadoop map reduce in open stack Juno platform", I-manager's Journal on cloud computing, Vol. 2, No. 2 ,pp.8-14,2015.
15	D. Kesvaraja, Dr. A. Shenbagavalli, "Cloud video server (CVS): secure video storage on cloud using heterogeneous slaves", I-manager's Journal on cloud computing, Vol.2, No. 1, pp. 32-41, 2015.
16	S.Rajagopal, Dr. A. Shenbagavalli, "Design of Real Time Video Encryption System Based on Adaptive Elastic Motion Model in H.264", Journal of Computational and theoretical Nanoscience, Vol.13,pp 1-15, 2016.
17	S.D.Jayavathi, Dr. A. Shenbagavalli , " FPGA Implementation of MQ coder in JPEG 2000 Standard – A Review", International Journal of Innovation and Scientific Research, Vol.28, No.1, Dec 2016.
18	S.Rajagopal,Dr.A.Shenbagavalli, (2016). Design of Real Time Video Encryption System Based on Adaptive Elastic Motion Model in H.264 , Journal of Computational and Theoretical Nanoscience, Vol. 13, No. 10, pp.7156–7170.
19	T. S. Arun Samuel, N.Arumugam, Dr.A.Shenbagavalli, (2016). Drain Current characteristics of Silicon nanowire Field Effect Transistor, ICTACT Journal on Microelectronics, Vol.2, No.3,
20	S.D.Jayavathi,Dr.A.Shenbagavalli, (2016). FPGA Implementation of MQ Coder in JPEG Standard – A review, International Journal of Innovation and Scientific Research, Vol.28, No.1, pp.76-83
21	J.E. Jeyanthi,Dr.A.Shenbagavalli,Dr. V.R.S. Mani,(2017). Study of Different Radar Waveform Generation Techniques for Automatic Air Target Recognition, International Journal of Engineering Technology Science and Research, Vol.4 No.,8 pp.642-647
22	T.Vijayanandh,Dr.A.Shenbagavalli, (2017). A Novel Histogram Shifting Techniques of improving data embedding capacity for medical image authentication, Journal of Advances in Chemistry, Vol.3, No.4
23	S.Vairaprakash,Dr.A.Shenbagavalli, (2017). A Discrete Rajan Transform-Based Robustness Improvement Encrypted Watermark Scheme Backed by Support Vector Machines, International Journal of Computers and Electrical Engineering.

24	S.D.Jayavathi,Dr.A.Shenbagavalli,(2017). FPGA-based Auxiliary Minutest MQ-coder architecture of JPEG2000, Journal of Real-Time Image Processing,
25	S.D.Jayavathi,Dr.A.Shenbagavalli,B.Ganapathy Ram, (2018). Efficient hardware architecture for integer implementation of multi-alphabet arithmetic coding, International journal of business intelligence and data mining, Vol.13, Nos.1/2/3.
26	D.Kesavaraja,Dr.A. Shenbagavalli, (2018). Framework for Fast and Efficient Cloud Video Transcoding System Using Intelligent Splitter and Hadoop MapReduce, Wireless Personal Communications.
27	J Josephine Selle,Dr.A Shenbagavalli,N.Sriraam,B Venkatraman, (2018). Automated recognition of ROIs for breast thermograms of lateral view-a pilot study, Quantitative InfraRed Thermography Journal.
28	P. Kadalarasu and Dr. A. Shenbagavalli, (2018). Three Phase CHBMLI based shunt active filter for THD mitigation using Hybrid Control Techniques, Journal of Electrical Engineering.
29	T.Vijayanandh and Dr.A.Shenbagavalli, (2018). Tamper detection of medical images using statistical moments against various attacks.
30	Josephine Selle Jayanathan, Dr.A.Shenbagavalli, B.Venkataraman, M.Menaka, J.Anitha & Victor Hugo C. de Albuquerque., (2019) Ananalysis of Transform – Based Features on Lateral View Breast Thermograms.
31	Josephine Selle Jeyenathan, Dr.A.Shenbagavalli, B.Venkatraman, M.Menaka, J.Anitha, Victor Hugo C. de Albuquerque, Analysis of Transform-Based Features on Lateral View Breast Thermograms, Circuits Systems and Signal Processing IF:1.998, Springer, (june-2020)
32.	Rajagopal, S., Shenbagavalli, A. Optimal ECC-based signcryption algorithm for secured video compression process in H.264 encoder
33.	Shenbagavalli A & Manjula Devi R, &, 2021, ‘An Automatic Detection of Liver Tumor from CT Abdominal Images - A Comparative Approach’, Journal of Medical Imaging and Health Informatics, vol.11, No 11, pp. 2845-2852, DOI: 10.1166/jmihi.2021.3875 (IF – 0.89) ISSN: 2156-7018.
34.	P. Hannah Blessy, Dr. A. Shenbagavalli, and Dr. T. S. Arun Samuel, A comprehensive review on the single Gate, Double Gate , Tri-Gate Hetero junction Tunnel FET for Future Generation Devices, Silicon, Springer Impact factor: 2.941, Oct 2022
35.	T.Vijayanandh, A.Shenbagavalli A Hybrid Deep Neural Approach for Segmenting the COVID Affection Area from the Lungs X-Ray Images – New General Computing , oct-2022 https:// doi.org/10.1007/s00354-023-00222-5

LIST OF INTERNATIONAL CONFERENCE PUBLICATIONS

1	Dr.A.Shenbagavalli, Mr.D.Kesavaraja, “Cloud video as a service with storage steaming security and quality of service approaches and directions”, International Conference on Circuit ,Power and Computing Technologies (ICCPCT-2013).
2	Dr.A.Shenbagavalli, Ms.Josephine Selle Jayanathan, Ms.M.Jeyashree, Mr.B.Venkatraman, “Non Destructive Diagnostic Tool for Early detection of Breast Cancer”, Asia Pacific International Conference on Non Destructive Testing, 2013

3	Mr.Vairaprakash, Dr.A.Shenbagavalli, "Certain investigation on image compression technique using wavelet transform for telemedicine application, International Conference on Current Trends in Engineering and Technology (ICCTET), 2013.
4	Ms.S.Maythina Rani, Dr.A.Shenbagavalli, "Evaluation of Diversity Gain in Digital Audio Broadcasting" International conference on Innovations in Information Embedded and Communication Systems, 2014.
5	Ms.S.Nandhini, Dr.A.Shenbagavalli, "Voiced/Unvoiced Detection using Short term Processing" International conference on Innovations in Information Embedded and Communication Systems, 2014.
6	Dr.A.Shenbagavalli, "Shedding Shyness" International Conference on Women's Worlds Congress, Hyderabad. 2014.
7	Ms.B.Radhika, Mrs.S.D.Jayavathi, Dr.A.Shenbagavalli, "Sleep Apnea event detection and monitoring using FPGA" International Conference on Electrical Electronics and Computer Engineering, 2015.
8	Ms.S.Prema, Dr.A.Shenbagavalli, "Image enhancement based on Clustering" IEEE International conference on innovations in information. Embedded and communication systems, 2015.
9	Ms.Josephine Selle Jeyanathan, Dr.A.Shenbagavalli, IEEE International conference on "Application of thermal imaging for early identification of Breast Cancer", 2018.

WORKSHOPS/SEMINARS/CONFERENCES/TRAINING PROGRAMMES ORGANIZED	
S.NO.	NAME OF THE PROGRAMME
1	National level seminar on FPGA for DSP Applications
2	AICTE Sponsored Faculty Development Program on "Advanced VLSI Technology"
3	ICMR Sponsored Seminar on "Research Issues in Thermography"
4	Workshop on "Research Trends and Applications of Biomedical Imaging"
5	Workshop on "NS-2" on
6	Workshop on "PCB design" on 24.09.2014.
7	Faculty Development Training Program (FDTP) On "EC6502-Principles of DSP
8	Workshop on "Hands on training NS-2"
9	Faculty Development Training Program (FDTP) On VLSI Design
10	Applications of Thermal Imaging" and Free Eye & Dental Medical Camp

WORKSHOPS/SEMINARS/CONFERENCES/TRAINING PROGRAMMES ATTENDED

S.NO.	NAME OF THE PROGRAMME & VENUE	DATES WITH DURATION	RESPONSIBILITY
1	Technical Seminar and Exhibition- Techno Vision, Arfra Hall Coimbatore	11.07.2003 & 12.07.2003	Participant
2	AICTE sponsored Staff Development Programme on “Advances in RF, Wireless Systems and Antennas” National Engineering College, Kovilpatti.	13.07.2009 to 18.07.2009	Participant
3	UGC sponsored workshop on “Capacity building of women managers in higher education” SRNM College, Sattur	20.06.2011 to 24.06.2011 4 days	Participant
4	Workshop on “BIOYANTRA’12 & MED EXPO” SRM University, Chennai	06.09.2012 to 08.09.2012 9 days	Participant
5	Medical Imaging Technology: Fundamentals to advanced” M.S.Ramaiah Institute of Technology, Bangalore.	13.03.2013 to 17.03.2013 5 days	Participant
6	“Training resource persons on Outcome Based Accreditation – Phase-I” - Thiyagarajar College of Engineering, Madurai.	29.04.2013	Participant
7	“Training resource persons on Outcome Based Accreditation – Phase-II” - Thiyagarajar College of Engineering, Madurai.	06.05.2013 to 08.05.2013 3 days	Participant
8	Special Workshop on New Outcome based Education- Thiyagarajar College of Engineering, Madurai.	09.05.2013 to 11.05.2013	Participant
9	AICTE sponsored National Seminar on “A hands on Seminar on LATEX Essentials for Beginners ” National Engineering College, Kovilpatti.	14.06.2013 & 15.06.2013 2 days	Participant
10	NPTEL Workshop, National Engineering College, Kovilpatti.	24.04.2015	Participant
11	Intellectual Property Rights and Innovations, National Engineering College, Kovilpatti.	07.11.2015	Participant
12	“Formulation of research & development Initiatives for Women Scientists and Technologists” Engineering Staff College of India, Hyderabad.	29.05.2016 to 01.06.2016 4days	Participant
13	GIAN Course – Advanced Pattern Recognition Techniques, MNIT Jaipur	26.03.2018 to 30.03.2018	Participant

14	International conference on 1. Advances in sensors, Energy and Hybrid vehicles 2. Advances in IoT, High performance and Edge Computing 3. AI, Robotics and Automation 4. Signals communication and Embedded Systems	14.10.2020 to 18.10.2020	Participant
15	Applications of Transforms in Signal Processing, VV College of Engineering, Tisaiyanvilai	15.09.2011	Resource Person
15	National Level Technical Symposium – Technoride'12	09.03.2012	Judge
16	Digital Signal Processing, Cape Institute of Technology, Tirunelveli	12.10.2012	Resource Person
17	Regional Workshop on Science Writing and Journalism National Engineering College, Kovilpatti.	17.02.2014 to 21.02.2014	Chair Person
18	International Conference, ICEA-2014, Sardar Raja College of Engineering, Tirunelveli	03.04.2014	Chair Person
19	Applications of Signals and Systems, M.Kumarasamy College of Engineering, Karur	04.03.2014	Resource Person
20	International Conference, AVANZARE-2K14, Sethu Institute of Technology	28.03.2014	Chair Person
21	Recent Advances in Electronics and Impact in Human Lives, G.V.N.College, Kovilpatti	09.07.2014	Resource Person
22	Research Avenues in Multi model Biometric Authentication, Sri Sarada College for Women, Tirunelveli	24.07.2015 & 25.07.2015 2 days	Resource Person
24	Recent Trends in VLSI, Communication and Embedded Technologies - Dr.Sivanthi Adithanar College of Engineering	14.03.2016	Chief Guest
25	International Test Conference, India 2018, Bangalore	22.07.2018 to 24.07.2018	Participant
33	IEEE International Conference TENCON 2018 at JEJU Island, South Korea	28.10.2018 to 31.10.2018	Chair person
28	International Test Conference India - 2019 at Bangalore	21.07.2019 to 23.07.2019	Participant
29	Thermal imaging and its applications-Virtual seminar	21.01.2022	Resource person

Awards and Honors

1. Mentor in AICTE Margdarshan
2. Board of Studies Member for Hindusthan College of Engineering and Technology as University Nominee
3. Member of Syllabus subcommittee for framing the curricula and Syllabi for Anna University Chennai.
4. Academic committee member – Government college of Engineering Tirunelveli

MEMBERSHIP DETAILS

S.NO.	Membership
1	Life member of ISTE (LM12155)
2	Member IETE
3	Member IEEE
4	Member IE(I)
5	Member BME