Faculty Profile

i.	**Name**	**: Dr.C.Gowri Shankar**
ii.	**Date of Birth**	**: 03.07.1981**
iii.	**Department**	**: ECE**
iv.	**Date of Joining**	**: 01.12.2010**
v.	**Designation**	**: Professor and Head**
vi.	**Faculty ID**	**: CEEE29**

vii.   Educational Qualification:

Degree	Specialization	Year of Study	University	Class
UG	EEE	1999 - 2003	Periyar University, Salem.	I Class
PG	Applied Electronics	2003-2005	Anna University, Chennai	I Class
Ph.D.	Information and Communication Engineering	2006-2013	Anna University, Chennai	-

viii.   Work Experience   :

Teaching: 17 years 5 months   **Research:** 9 Years

Industry: Nil   **Others:** Nil

ix.   Area of Specialization : Image Processing

x.   Courses Taught:

Undergraduate	Postgraduate
➢ Bio-medical Instrumentation	➢ Advanced Digital Signal Processing
➢ Signals & Systems	➢ Digital Image Processing
➢ Digital Signal Processing	➢ Biomedical Imaging and Signal Processing
➢ Linear Integrated Circuits	➢ Embedded Analog Interfacing
➢ Basics of Electrical and Electronics Engineering	➢ Digital Instrumentation
➢ Transmission and Distribution	

xi. **Research Guidance:**
- **No. of Master degree guided:** 8
- **No. of Ph.D.s guided/guiding:** 8 (5 Pursuing + 3 Completed)

xii. **No. of Projects carried out :** Nil

xiii. **No. of Patents:** 02 Filed

xiv. **Research Publications:**

Conferences:	National:	13	International:	10
Journals:	National:	-	International:	24

xv. **Additional Responsibilities:**

S.No	Details of Work
1.	NBA & NAAC Coordinator
2.	Board of Studies Coordinator
3	Outcome Based Education (OBE) Coordinator
4	Academic Council Member
5	Admission Committee convener
6	Subject Allocation In-charge

xvi. **NPTEL Courses**

S.No	Name of the Course	Duration	Status / Remarks
1.	Power System Engineering	12 Weeks	Completed
2	Digital Signal Processing	8 Weeks	Completed
3	Academic Writing	15 Weeks	Completed
4	Principles of Signals and Systems	12 weeks	Completed
5	Outcome Based Pedagogic Principles for Effective Teaching	4 Weeks	Completed

xvii. **Self-Appraisal:**

Major Strengths:
➤ Being civilized and maintaining a positive relationship with the working colleagues
➤ A clear instructional design and delivery.

Major Weaknesses: Nil

C. Guvtf

Signature

(2)

Annexure

Seminars/ Workshops/ Faculty Development Programs etc. attended:

Title of the Course	Institution	Duration	Sponsored by
Induction/ Refresher Programme on Embedded Systems and its Application in internet of Things	Sri Krishna College of Technology, Coimbatore.	25-06-2018 to 30-06-2018	AICTE-ISTE
Workshop on 'Design Thinking for Engineering Educators'	Coimbatore Institute of Technology, Coimbatore	26-07-2018 & 27-07-2018	MHRD
STTP on NBA Accreditation	K.S.R. College of Engineering, Tiruchengode	22-04-2019 to 26-04-2019	NITTTR, Kolkata
STTP on Professional Development of Educators in Teaching Pedagogy – A Learning and Research Design	Nandha Engineering College, Erode	20-05-2019 to 25-05-2019	AICTE
Computational Energy Management in Smart Grid	Vivekanandha College of Engineering for Women	20-11-2017 & 03-12-2017	AICTE
Wavelets: Theory and Application to signal and Image processing	Kongu Engineering College	08-08-2016 & 09-08-2016	Self-Sponsored
Quality systems in Continuing Education	Anna University Chennai	29-09-2016 & 30-09-2016	NAAC Bengaluru
Recent trends and Challenges in power electronic convertors for smart grid interface of Renewable energy system	Nandha Engineering College	16-12-2016 & 17-12-2016	DST, New Delhi

List of Publications

International Journals

- ⇒ **Number of Journals** : **24**
- ⇒ **Number of Citations** : **134**
- ⇒ **h-Index** : **4**
- ⇒ **i10-index** : **3**

S.No	Title of the paper	Journal name	Year	Authors
1	Adaptive Sub-Threshold Voltage Level Control for Voltage Deviate-Domino Circuits	International Journal of Intelligent Automation & Soft Computing (Tech Science Press), Vol. 35, No. 2, pp. 1767-1781, DOI: 10.32604/IASC.2023.028758.	2022	Gowri Shankar, C. and Arun Prasath, C.
2	Comparative analysis of Yavadunam Tavadunikrtya Varganca Yojayet Vedic multiplier for embedded DNN	Journal of the Indian Academy of Sciences, (SADHANA), Vol. 47, No. 74, pp. 1 - 6, DOI: 10.1007/s12046-022-01843-0	2022	Gowri Shankar, C. and Santhosh Kumar, P.
3	High Gain Superlift Luo Convertor Based Grid Connected Hybrid Solar Wind Energy System	International Journal for Science and Advance Research in Technology	2022	Gowri Shankar, C. and M .Nivashini,
4	Design and investigation of low-complexity Anurupyena Vedic multiplier for machine learning applications	Journal of the Indian Academy of Sciences, (SADHANA), Vol. 45, No. 272, pp. 1 - 4, DOI: 10.1007/s12046-020-01500-4	2020	Gowri Shankar, C. and Santhosh Kumar, P
5	High-performance single-input three-output DC–DC high gain converter for fuel cell-based electric vehicles	International Journal of Electrical Engineering (Springer), Vol. 102, No. 3, pp. 1715–1737	2020	Gowri Shankar, C. and Ravikumar, P.
6	Quality improvement and performance analysis of High Efficiency Video Coding under high quantization parameters and rain streaks	International Journal of Signal, Image and Video Processing (Springer), Vol. 14, pp. 387–395,	2020	Gowri Shankar, C. and Thiyagarajan, J.
7	Investigation of filtering of rain streaks affected video sequences under various quantization parameter in HEVC encoder using an enhanced V-BM4D	IET Image Processing, Volume 14, Issue 2, pp. 337 – 347, doi: 10.1049/iet-ipr.2018.6005	2020	Gowri Shankar, C. and Thiyagarajan, J.
8	Voltage deviate-domino circuits for low power high speed applications using prescient innovation model	International Journal of Microprocessors and Microsystems (Elsevier), Vol. 71, pp. 1-7, ISSN 0141-9331.	2019	Gowri Shankar, C. and Arun Prasath, C.

S.No	Title of the paper	Journal name	Year	Authors
9	Secure Image Encryption and Data Embedding Using Block Truncation Coding	Caribbean Journal of Science, Vol. 53, Issue 2, pp 1851 - 1858. ISSN: 0008-6452	2019	Gowri Shankar, C., Madlin Asha, M. and Menaka E.,
10	Design and Simulation of Low Leakage High Speed Domino Circuit using Current Mirror	International Journal of Emerging Technology in Computer Science & Electronics, Vol. 20, No. 2, pp. 197 – 202.	2016	Gowri Shankar, C. and Arun Prasath, C.
11	Multidimensional Circlet Lattice based Approach to Mine Spatially Co-Located Patterns	Asian Journal of Research in Social Sciences and Humanities' Vol. 6, No. 8, pp. 2260-2274.	2016	Rubini, P. Gowri Shankar, C.
12	Fuzzy logic pattern classification for web directories optimization	International Journal of Advanced Engineering Technology, Vol. 7, No. 2, pp. 913-917.	2016	Rubini, P. Gowri Shankar, C.
13	Multidimensional Circlet Lattice based Approach to Mine Spatially Co-Located Patterns	Asian Journal of Research in Social Sciences and Humanities' Vol. 6, No. 8, pp. 2260-2274.	2016	Rubini, P. Gowri Shankar, C.
14	Fuzzy logic pattern classification for web directories optimization	International Journal of Advanced Engineering Technology, Vol. 7, No. 2, pp. 913-917.	2016	Rubini, P. Gowri Shankar, C.
15	A survey on Co located pattern mining in spatial dataset	International Journal of Multidisciplinary Research and Development, Vol. 2, No. 1, pp. 507-509	2015	Rubini, P. Gowri Shankar, C.
16	An efficient system for Electrocardiogram data acquisition and analysis using LabVIEW	International Journal for Trends in Engineering and Technology, Vol. 4, No. 2.	2015	Gowri Shankar, C. Shamsudeen Shafreen.S.
17	A Novel Approach for Recognizing Facial Structures Using Extreme Learning Machine Algorithm	International Journal of Innovative Research in Science, Engineering and Technology, Vol.3, No. 2, pp. 219-225,	2014	Sanjula S. Gowri Shankar, C.
18	SVM Based Road Surface Detection to improve performance of ABS	Journal of Applied Science Research, Vol. 9, No. 1, pp. 104-112.	2013	Anbalagan, T. Gowri Shankar, C. Shanmugam, A.
19	Vehicle Braking Performance Improvement by SVM Based Road Surface Detection	Asian Journal of Electrical Sciences, Vol. 2, No. 2, pp.14-21	2013	Anbalagan, T Gowri Shankar, C. Shanmugam, A.
20	Compatible Abnormality Detection Technique for CT and MRI Brain Images	The Imaging Science Journal, Vol.61, No. 7, pp. 568-578 Impact Factor: 0.506 SJR: 0.184 H Index: 13	2013	C.Gowri Shankar Dr.A.Shanmugam

S.No	Title of the paper	Journal name	Year	Authors
21	SVM Based Road Surface Detection to improve performance of ABS	Journal of Theoretical and Applied information Technology, Vol. 51, No. 2, pp. 234-239 Impact Factor: 1.71 SJR: 0.19 H Index: 7	2013	Gowri Shankar, C. Anbalagan, T. Shanmugam, A.
22	Active Contour based Microcalcification Detection and Classification in Digital Mammogram	Australian Journal of Electrical and Electronics Engineering, Vol. 9, No. 3, pp. 1-10 Impact Factor: 0.080 SJR: 0.034 H Index: 8	2012	C.Gowri Shankar Dr.A.Shanmugam T.Bala Kumaran
23	Detection of Microcalcification Clusters Using Hessian Matrix and Foveal Segmentation Method on Multiscale Analysis in Digital Mammograms	Journal of Digital Imaging (Springer), Vol. 25, No. 5, pp. 607-619 Impact Factor: 1.21 SJR: 0.53 H Index: 29	2012	Balakumaran, T. Gowri Shankar, C. Ila Vennila,
24	A multi-resolution approach to Denoising and enhancement of pre-cancerous features in mammograms	International Journal Biomedical Engineering and Technology (Inder Science), Vol.7, No. 3, pp. 242-256 Impact Factor: 1.34 SJR: 0.25 H Index: 7	2011	C.Gowri Shankar Dr.A.Shanmugam T.Bala Kumaran
25	Detection of Microcalcification in Mammograms Using Wavelet Transform and Fuzzy Shell Clustering	International Journal of Computer Science and Information Security (IJCSIS), Vol. 7, No. 1, Impact Factor: 0.423	2010	T.Bala Kumaran Dr.ILA.Vennila C.Gowri Shankar
26	The Fast Haar Wavelet Transform for Signal & Image Processing	International Journal of Computer Science and Information Security (IJCSIS), Vol. 7, No. 1, Impact Factor: 0.423	2010	V.Ashok T.Bala Kumaran C.Gowri Shankar Dr.ILA.Vennila Dr.A.Nirmalkumar
27	A Novel Technique for MR Image Contrast Enhancement	International Journal on Electronic and Electrical Engineering, Vol 1, No. 1, pp 46-53 Impact Factor: 0.501	2009	C.Gowri Shankar Dr.A.Shanmugam T.Bala Kumaran
28	Microcalcification Detection using Multiresolution Analysis and Neural Network	International Journal of Recent Trends in Engineering, Vol. 2, No. 2, pp. 208-211	2009	T.Bala Kumaran Dr.ILA.Vennila C.Gowri Shankar

International Conferences

S.No	Title of the paper	Name of the conference	Year	Authors
1	Investigation of Denoising Performance of advanced BM 3D-Double Convolutional Layer Neural Network Structure	Int. Conf. on Innovative Engineering Initiatives (ICIEI-2019) held during SRM TRP Engineering College, Trichy	13th &14th March 2019	Gowri Shankar, C. and Thiyagarajan, J.
2	Automated Feeding and Watering System for Farmyard	International Conference on Recent innovations in Engineering, Technology and Management (ICRIETM -2019) held at Nandha Engineering College, Erode.	22nd March 2019	Gowri Shankar, C., Thilakraj K., Vengateshmurugan, A. Vignesh, P. N. Vijayaraghavan, T. R.
3	Investigation of Denoising Performance of advanced BM 3D-Double Convolutional Layer Neural Network Structure	International Conference on Innovative Engineering Initiatives (ICIEI-2019) held at SRM TRP Engineering College, Trichy.	13th &14th March 2019	Gowri Shankar, C. and Thiyagarajan, J.
4	Denoising of Rain streak HD Videos using HEVC in Convolution Neural Network	International Conference on Emerging Trends in Renewable Energy, Power quality and Optimization techniques (ETREPQOT-2K19) held at Er. Perumal Manimekalai College of Engineering, Hosur.	25th February 2019	Gowri Shankar, C. and Mohanapriya
5	FPGA implementation of Video watermarking using DCT and DWT Transforms	International Conference on Communication and Signal Processing at Adhiparasakthi Engineering College, Chennai	26th to 28th April 2016	Gowri Shankar, C. Arun Prasath, C.
6	An efficient system for Electrocardiogram data acquisition and analysis using LabVIEW	International Conference on Advance Research in Technology and Engineering organized by Sri Ranganthar Institute of Engineering and Technology, Coimbatore	31st March 2015	Shamsudeen Shafreen.S Gowri Shankar, C.
7	An efficient image compression Algorithm using non sub sampled shearlet transform	International Conference on Electrical, Electronics and Computer Engineering, Vivekanandha College of Engineering for women	March 11 & 12, 2015	Gayathri, R. Gowri Shankar, C.
8	A novel method for automatic detection and classification of abnormalities in mammogram	International Conference on Advances in Engineering, Technology and Sciences held at Hotel Clouds Valley Leisure, Munar Kerala, India.	26 – 27, April 2014	Abdul Kadar, A. Gowri Shankar, C.

S.No	Title of the paper	Name of the conference	Year	Authors
9	Recognizing surgically altered face images using Extreme learning machine	International Conference on Advances in Engineering, Technology and Sciences held at Hotel Clouds Valley Leisure, Munar Kerala, India.	26 – 27, April 2014	Sanjula, S. Gowri Shankar, C.
10	A neural network approach to Cellular Automata based seeded tumor segmentation of brain MR images	International Conference on Electrical and Electronics Engineering and Technology organized by Muthayammal Engineering College, Rasipuram.	25-26, April 2013	Gowri Shankar, C Sabitha,V.S.
11	Neural network based compatible abnormality detection scheme for CT and MRI brain images	International convention cum pre-conference workshop on Innovations in Engineering and Technology for Sustainable Development, organized by Bannari Amman Institute of Technology, Sathyamangalam, India and University of Derby.	3 – 5, September 2012	Gowri Shankar, C. Dr.A.Shanmugam
12	A Multiresolution Approach for Enhancement and Denoising of Mammogram	International conference on Mathematical Modeling and Applied Computing, organized by Coimbatore Institute of Technology, Coimbatore, India.	11- 13, July 2012.	Gowri Shankar, C. Dr.A.Shanmugam
13	Polynomial Approach to Magnetic Resonance Image Contrast Enhancement	International conference on Computing, Communication and Networking held at Chettinad College of Engineering and Technology, Karur.	18-20, December 2008	Gowri Shankar, C. Dr.A.Shanmugam T.Bala Kumaran

National Conferences

S.No	Title of the paper	Name of the conference	Year	Authors
1	An efficient system for Electrocardiogram data acquisition and analysis using LabVIEW	National Conference on Recent advances in Power Electronics, Embedded and Renewable Energy Systems organized by K.S.R. College of Engineering	12th March, 2015	Shamsudeen Shafreen.S Gowri Shankar, C.
2	A perspective pattern recognition of surgically altered face using extreme learning machine algorithm	National Conference on Technological Innovations in Electrical Engineering organized by K.S.R. College of Engineering.	28th March, 2014	Sanjula, S. Gowri Shankar, C.
3	A novel method for automatic detection and classification of abnormalities in mammogram	National Conference on Technological Innovations in Electrical Engineering organized by K.S.R. College of Engineering	28th March, 2014	Gowri Shankar, C. Abdul Khadar, A.

S.No	Title of the paper	Name of the conference	Year	Authors
4	Brain tumor boundary detection using cellular automata based seeded tumor segmentation of brain MR images	National conference on System Design and Information Processing held at PSNA College of Engineering and Technology , Dindigul	22nd March, 2013	Gowri Shankar, C. Sabitha, V.S.
5	Detection of Voltage Sag Disturbances using DSP Techniques	National Conference on Technological Innovations in Electrical Engineering organized by PET Engineering College.	21 & 22, March 2010	Gowri Shankar, C. Gopinath, S.
6	Design of Optimum filter for medical image noise removal	National Conference on Innovations in Computing Techniques, Mahendra Engineering College.	09th April, 2009	Senthilkumar, M. Gowri Shankar, C.
7	Multiresolution MRI image segmentation using watershed Algorithm	National Conference on Innovative Ideas in Mechatronics, Kumaraguru College of Technology.	14th March 2009	Tamilselvan, K.S. Gowri Shankar, C. Balakumaran, T.

Invited Lectures or Presentations in Conference / Symposia

S.No	Type of the program	Title of the Speech	Place	Date
1	Guest Lecture	Digital Signal Processing	Er. Perumal Manimekalai College of Engineering	01.10.2018
2	Guest Lecture	Digital Signal Processing	Er. Perumal Manimekalai College of Engineering	27.09.2018
3	Guest Lecture	DSP - A classical overview	Er. Perumal Manimekalai College Of Engineering	27.3.2018
4	Guest Lecture	Image Engagement & Restoration	Vellalar College of Engineering & Technology, Erode	16.12.2017
5	Guest Lecture	Embedded Systems	Vellalar College of Engineering & Technology, Erode	15.12.2017
6	Guest Lecture	MATLAB application to modeling and simulation of power systems devices	University College of Engineering, Dindigul	13.10.2017
7	Guest Lecture in one day workshop	NBA's Parameters for accreditation and Outcome Based Curriculum Development	K.S.R. College of Engineering, Tiruchengode	17th September 2016
8	Faculty Development Programme	MATLAB and its Applications to Engineering Problems	Navodaya Institute of Technology, Raichur, Karnataka	29th April to 1st May 2016
9	Keynote address in Association Function	Transmission and Distribution	M. Kumarasamy College of Engineering, Karur	04th July 2015

S.No	Type of the program	Title of the Speech	Place	Date
10	Guest Lecture	Trends in Engineering Applications and Management	Velalar College of Engineering and Technology, Erode	14th March 2015
11	Guest Lecture	Transmission and Distribution	Vivekanandha Institute of Engineering and Technology for women, Tiruchengode	12th February, 2015
12	Guest Lecture in Faculty Development Training Programme	Design of Filters	Vivekanandha Institute of Engineering and Technology for women, Tiruchengode	22nd December 2014
13	Guest Lecture	Image Processing and Analysis	Jay Shriram Group of Institutions, Tirupur	23rd November, 2014
14	Keynote address in National Conference	An Insight to Medical Image Processing	Rathinam College of Arts and Science, Coimbatore	20th September 2014
15	Guest Lecture	Digital Signal Processing	Er. Perumal Manimekalai College of Engineering, Hosur	08th September 2014
16	Guest Lecture in Faculty Development Training Programme	Algorithms to design LFC Controllers	K.S.R.College of Engineering , Tiruchengode	24th June 2014
17	Guest Lecture	Image Processing and Analysis	Jay Shriram Group of Institutions, Tirupur	26th November, 2013
18	Guest Lecture in AICTE sponsored three day seminar	Information content security and unsupervised pattern classification	P.A. College of Engineering and Technology, Pollachi	19th September 2013
19	Guest Lecture in CSIR Sponsored national Seminar	Engineers role in Designing Medical Devices	Kongu Engineering College, Perundurai, Erode	19th January, 2013
20	Guest Lecture	Role of Computer vision in Image Processing	Nandha College of Technology, Erode	19th January, 2013
21	Guest Lecture	An Insight into Signal and Image Processing	Jay Shriram Group of Institutions, Tirupur	13th August, 2012
22	Guest Lecture	Overview of Digital Image Processing	Nandha College of Technology, Erode	03rd March 2011
23	Guest Lecture in two days workshop	Denoising and Enhancement of Images	Velalar College of Engineering and Technology, Erode	12th September 2009
24	Guest Lecture in one day workshop	Medical Image Analysis	Velalar College of Engineering and Technology, Erode	6th September 2008

Conferences / FDP / Workshops Organized

S.No	Name of Programme	Title of the Programme	Date(s)	Duration
1	Faculty Development Training Programme	Circuit Theory	26th November to 08th December 2018	Two Weeks
2	Workshop	Design of Power Electronics Convertors using MATLAB	23rd March 2018	One day
3	Faculty Development Training Programme	Power System Operation and Control	23.06.2014 & 30.06.2014	7 Days
4	Workshop	Algorithms in Image processing	11.09.2009 & 12.09.2009	2 Days
5	Workshop	Algorithms in Image processing	06.09.2008	1 Day