CURRICULAM VITAE

1.   PERSONAL INFORMATION

Name   : Dr.S.Bhavani

Father's Name   : V.S.Srinivasan

Date of Birth   : 05.08.1968

Gender   : Female

Marital Status   : Married

Husband's Name   : K.Sridharan

Address for communication   : Plot No.14, Sri Shirdi Sai Nivas
                                                    Thirumalai Nagar
                                                    Coimbatore -641016, Tamilnadu. India
        Mobile   : 9942567658
        Email   : bhavanisridharan7@gmail.com

Permanent Address   : Plot No.14, Sri Shirdi Sai Nivas
                                                    Thirumalai Nagar
                                                    Coimbatore-641016, Tamilnadu. India

Nationality   : Indian

Languages known   : English, Tamil

2.   EDUCATIONAL QUALIFICATIONS

A.   PROFESSIONAL QUALIFICATIONS

Degree	College & University	Year of passing/Class obtained	Major subject with specialization
B.E	VLB Janaki Ammal College of Engineering & Technology, Bharathiar University, Coimbatore	April 1990/ I class with Distinction 76.8%	Electronics & Communication Engineering
M.E	Maharaja Engineering College, Anna University, Chennai	June 2006 / I class with Distinction 85%	Applied Electronics
Ph.D	Anna University	May 2013	Medical Image compression

B.   CONTINUING EDUCATION:

Seminars/Conference/Training Programmes/Workshops/FDP (Organized / Attended)

Details of Event	Title of Event	Organized by	Venue of the Event	Date & Year
2008-09				
2 Days training programme	Basics of Mat lab	Conducted by M/S Reach systems at Shakthi Institute of Engineering & Technology	Shakthi Institute of Engineering & Technology	2-3-2009 to 3-3-2009
2 week FDP	FDP on VLSI Design and testing.	Delivered a lecture on CMOS IC Fabrication in AICTE sponsored	Shakthi Institute of Engineering & Technology	12.3.2009
Medical Image mesh based Compression-A Literature review	National Conference	CSE Department	PSG College of Engineering and Technology, Coimbatore.	8-2-2009
One day Workshop	Network laboratory	Conducted by M/S Benchmark, Chennai at Sri Shakthi Institute of Engineering & Technology	M/S Benchmark, Chennai and Sri Shakthi Institute of Engineering & Technology	31.01.2009
2009-10				
National level Technical Symposium	TECHBASH	All Departments	Sri Shakthi Institute of Engineering & Technology	30.9.2009 & 01.10.2009
Guest Lecture	Space Communication	Delivered by Prof.M. Ramasamy ,HOD ECE Sri Krishna college of Engineering at Sri Shakthi Institute of Engineering & Technology	Sri Shakthi Institute of Engineering & Technology	21.01.10
On NPTEL Materials	5 day Course specific workshop	IIT,Madras	PSG College of Technology	5-4-2010 to 9-4-2010

Advanced VLSI Design	5 day VLSI Course	RV VLSI society, Bangalore	Sri Shakthi Institute of Engineering & Technology	22-02-2010 to 26-02-2010
Signals transforms & its applications	2 day workshop	ECE Department with IIPC Cell of CIT	CIT	17-9-2009 to 18-09-2010
Wavelets & its applications in signal/ Image processing using MATLAB	2 day workshop	ECE Department	Anna University, Coimbatore	5-3-2010 to 6-3-2010
2010-11				
Guest Lecture	Role of Communication in Railways	Mr.D.Sunil, Telecommunication Workshop division, Southern Railways, Podhanur	for IETE Students of II & III ECE- A & B Students of SIET	15/3/2011
One day Workshop.	Embedded Controllers & Arm Processors	Steps Knowledge Services	for III ECE A & B Students of SIET	15/2/2011
One day Workshop	Applications of Analog & Digital circuits	Steps Knowledge Services	for II ECE A & B Students of SIET	28/1/2011
Regional Summit Meeting for Quality in education.	2 day regional summit	Rathna Regent, Coimbatore.	Rathna Regent, Coimbatore.	21/1/2011 & 22/1/2011
Research Challenges in Digital image processing	2 day National Workshop	ECE Department	Coimbatore Institute of Technology	4/2/2011 & 5/2/2011.
Emerging Trends in Digital image processing	2 day National Workshop	IT Department	GRD College of Science	4/3/2011 & 5/3/2011.
2011-12				
One week FDP on Wavelets & its Multiresolution Processing	One week FDP	ECE Department	Anna University, Coimbatore	14.12.2011-20.12.2011
One day workshop	Digital Image processing applications in Present Scenario	Dr.M.Roomi Thiyagarajar Engineering college. Madurai Dr Sabeenian Sona College of Technology	For all Students	21.1.2012
Two days workshop	Usage of ORCAD PSpice	Reach Information systems	For II ECE A & B students	31.1.2012-1.2.2012

National level Technical Symposium	TECHBASH	All Departments	Sri Shakthi Institute of Engineering & Technology	21.3.2012 & 22.3.2012
One day workshop	Digital Image processing applications in Present Scenario	Dr.M.Roomi Thiyagarajar Engineering college, Madurai Dr Sabeenian Sona College of Technology	For all Students	21.1.2012
Two days workshop	Usage of ORCAD PSpice	Reach Information systems	For II ECE A & B students	31.1.2012-1.2.2012
One day workshop	Digital Image processing applications in Present Scenario	Dr.M.Roomi Thiyagarajar Engineering college, Madurai Dr Sabeenian Sona College of Technology	For all Students	21.1.2012
Two days workshop	Usage of ORCAD PSpice	Reach Information systems	For II ECE A & B students	31.1.2012-1.2.2012
National level Technical Symposium	TECHBASH	All Departments	Sri Shakthi Institute of Engineering & Technology	21.3.2012 & 22.3.2012
2012-13				
2 day National level Workshop	NS2- Network Simulator	SAT Infosys, Coimbatore	75 Participants from national level	12.10.2012 & 13.10.2012
One week FDP on signals and systems	One week FDP	ECE Department	Anna University, Coimbatore	12.07.2013-18.07.2013
2014-15				
FDP on Research issues in digital image Processing	FDP	ECE Department	Karpagam University	05.06.2015
FDP on Low Power VLSI design	FDP	ECE Department	Karpagam University	06.06.2015
FDP on Embedded system and Introduction to PIC and ARM Controllers	FDP	ECE Department	Karpagam University	08.06.2015
FDP on Physics in Engineering	FDP	ECE Department	Karpagam University	10.06.2015
2015-16				
FDP on Overview of satellite system, orbits and launching methods Geosationary and space	FDP	ECE Department	Karpagam University	23.11.2015

segment				
FDP on Earth segment space link and satellite access	FDP	ECE Department	Karpagam University	24.11.2015
FDP on Direct broadcast, satellite services	FDP	ECE Department	Karpagam University	24.11.2015
FDP on Network synchronization and control management	FDP	ECE Department	Karpagam University	25.11.2015
FDP on Multiplexing, Traffic analysis on switching network	FDP	ECE Department	Karpagam University	26.11.2015
Entrepreneurial Opportunities In Exports And Imports	One day workshop	ECE Department	Karpagam University	14.08.2015
Hands on Training in processing of bio signals using MATLAB	One day workshop	ECE Department	Karpagam University	11.09.2015
PC Hardware Troubleshooting And Servicing	One day Workshop	ECE Department	Karpagam University	23.09.2015
Two day FDP on " E—Content development"	Two Days FDP	MBA Department	Karpagam University	22nd and 23rd January 2016
National Level Technical Symposium-ECTRIX-2k16	One day National level technical symposium	ECE Department	Karpagam University	11.2.2016
VLSI Design on analog design	2 days National level workshop	ECE Department	Karpagam University	27.02.2016
National Conference on Intelligent systems in electronic Instrumentation 2k16	National Conference	ECE Department	Karpagam University	9.3.2016
Hands on training on using Embedded Controller by Texas Instruments, training partners	4 days Industrial training	ECE Department	Karpagam University	21.03.2016 to 24.03.2016
One week FDP on Medical Imaging and Informatics(FDP)	One week FDP	CSE Department	Coimbatore Institute of Technology, Coimbatore	19.04.2016 to 26.04.2016
2016-17				

VLSI Design	Two days workshop	ECE Department	Karpagam University	27.02.2016
Summer School on Design and development of Embedded systems and Robotics	Summer School	ECE Department	Karpagam University	1.6.2016 to 11.6.2016
Hands on training on using Embedded Controller	Four days Workshop	ECE Department	Karpagam University	21.03.2016 to 24.03.2016
2017-18				
Analog Design Using Cadence Tool	One Day National Level Workshop	ECE Department	Karpagam University	14.09.2017
Cadence EDA tools	Hands on training	ECE Department	Karpagam University	7.9.2017 & 8.9.2017
Uterine Fibroids and infertility in adolescent girls	ICMR Sponsored Seminar handled by Dr.R.Rajini DGO Women Wellness Centre, Vadavalli Dr.Deepana DGO Karpagam medical college hospital Dr.Swathantiradevi DGO MD Hari hospital Cbe	ECE Department	Karpagam University	26.9.2017 to 27.9.2017
" Arduino- A Hands on Introduction for Project development" for 4 days for ECE & BME students	Short term training programme handled by Mr.R.Vijayakumar Technical Project Engineer from Tech i Automation	ECE Department	Karpagam University	18.9.2017-21.9.2017
Guest Lecture for "Digital Electronics" by Mr.Stefan Piroot Technologies	Guest Lecture	ECE Department	Karpagam University	18.07.2017

Seminar on "Digital Signal Processing " by Mr.Vinoth Design Engineer Cliber Embedded Technologies	Seminar	ECE Department	Karpagam University	14.07.2017
Seminar on "Human Anatomy and Physiology by Mr.Manishankar Physician Karpagam Medical College Hospital	Seminar	ECE Department	Karpagam University	14.07.2017
Guest Lecture for "Digital Electronics" by Mr.I.Harish Transmos Technologies	Guest Lecture	ECE Department	Karpagam University	18.7.2017
Guest Lecture on Digital Image Processing by Mr.Vishnu Devan Caliber Embedded Technologies	Guest Lecture	ECE Department	Karpagam University	28.7.2017
Seminar on "Industry Expectations From Students by Gowtham caliber embedded technologies	Seminar	ECE Department	Karpagam University	17.08.2017
Seminar on Electronic Devices by Mr.Vinoth kumar Caliber Technologies	Seminar	ECE Department	Karpagam University	23.08.2017
2018-19				
National level Seminar on "How to write research paper and publish in reputed journals" hand;led by 1.Dr .K.Porkumaran, Principal, Dr.NGP Institute of Engineering and Technlogy 2.Dr.G.K.D.Prasanna	One day National level Seminar	ECE Department	Karpagam University	30.08.2018

Venkatesan,Dean/FOE 3. Dr.Barick,Associate Professor,Mechanical Dept./KAHE 4. Mr.S.Baskar,AP/ECE, KAHE				
One day National level workshop on Analog VLSI Design using CADENCE EDA tools handled by Mr.G.R.Mahendababu, AP/ECE,KAHE Mr.M.Daranikumar, ,AP/ECE,KAHE	One day National level workshop	ECE Department	Karpagam University	25.09.2018
Guest Lecture on Electronic devices by Dr.S.Kamlarj/ECE department/KAHE	Guest Lecture	ECE Department	Karpagam University	13.7.2018
Guest Lecture on Digital Electronics handled by Mr.Selvaraju, Hands on Technologies, Coimbatore	Guest Lecture	ECE Department	Karpagam University	25.7.2018
Seminar on Microprocessors and Controllers in IoT design handled by Mr.Bhuvaneswaran, Technical Engineer,Start Career,	Seminar	ECE Department	Karpagam University	11.8.2018
Workshop on Digital Electronics handled by Mr.K.Moorthi, Telecom Engineer(Retd.,),Signal & Telecommunication,Souhern Railways,Podhanur	Two days workshop	ECE Department	Karpagam University	16.8.2018 and 20.8.2018

Seminar on Electro Magnetic fields by M.K.Muthukumarasaw amy, CADPOINT, Coimbatore	Seminar	ECE Department	Karpagam University	8.9.2018
4 days Workshop on Wireless Communication addressed by Mr.K.Moorthi, Telecom Engineer(Retd.,),Signal & Telecommunication,Sou hern Railways,Podhanur	Workshop	ECE Department	Karpagam University	26.9.2018 to 29.9.2018
Three days National level FDP on Sales Force Essentials for Business Specialists by Mr.G.R.Mahendababu, AP/EC, KAHE	Three days National level FDP	ECE Department	Karpagam University	26.11.2018 to 28.11.2018
5 Days Workshop on "Optical Fiber Cable Technology" by Mr.K.Moorthi, Telecom Engineer(Retd.,),Signal & Telecommunication,Sou hern Railways,Podhanur	Workshop	ECE Department	Karpagam University	31.10.201 and 13.11.2018 to 16.11.2018
One day National Level UG Conference by Mani Arthanari Chief Operations Officer Roots Industries India Limited	National Level UG Conference	ECE Department	Karpagam University	05.02.2019
National level Technical Symposium ECTRIX addressed by Mr.M.Sathish Kumar. Product Vertical Head,	One day National level Technical Symposium	ECE Department	Karpagam University	19.02.2019

Pricol, Coimbatore				
Seminar on "Hands on training in usage of Electronic equipments "Mr.Venkatasalam from wizard systems, Coimbatore	Seminar	ECE Department	Karpagam University	02.01.2019
Guest Lecture for "Electronic Circuits " Mr.Balamurugan from Dexcy Textile PVT Ltd.,	Guest Lecture	ECE Department	Karpagam University	08.01.2019
Special Lecture for "NAAC – Criteria and glossary" by Mr.G.R.Mahendrababu, Assistant Professor/ ECE from Karpagam Academy of Higher Education, Coimbatore-21	Special Lecture	ECE Department	Karpagam University	19.01.2019
Special Lecture for Introduction to PEO,PSO,PO,CO.by Dr.S.Bhavani, HOD /ECE form Karpagam Academy of Higher Education, Coimbatore-21	Special Lecture	ECE Department	Karpagam University	09.02.2019
Special Lecture for " Introduction to e-content development for SWAYAM and NPTEL"by Dr S.Kamalraj, Associate Professor / ECE form Karpagam Academy of Higher Education, Coimbatore-21	Special Lecture	ECE Department	Karpagam University	23.02.2019
Special Lecture on "Research Methodology" by Dr.P.Manimegalai, Professor / ECE, Karpagam Academy of	Special Lecture	ECE Department	Karpagam University	09.03.2019

Higher Education, Coimbatore-21				
Special Lecture on " Open Source Tools For Electronic Engineering" by Dr N.Rajalakshmi, Associate Professor / BME from Karpagam Academy of Higher Education, Coimbatore-21	Special Lecture	ECE Department	Karpagam University	23.03.2019
2019-20				
Guest Lecture for " Introduction For Robotics& Artificial Intelligence " By ROHIT R MENON Business Development Manager from Technoxian, New delhi by	Guest Lecture	ECE Department	Karpagam University	04/07/2019
Guest Lecture for " Basic Of Electronics " Mr.Ananad, MD from Lams Voltaic Automation Pvt.Ltd.,	Guest Lecture	ECE Department	Karpagam University	19/07/2019
Guest Lecture for " Tools Used For Digital System Design " Mr. Ranjeeth, Application Engineer from Thik technologies, coimbatore.	Guest Lecture	ECE Department	Karpagam University	25/07/2019
Seminar On "Microprocessor And Microcontroller " Mr. PAUL EBENEZER, Senior Engineer, from Smitch Solution Pvt.Ltd.	Seminar	ECE Department	Karpagam University	26.07.2019

3.   **EMPLOYMENT EXPERIENCE**

A)   **Total Experience**   **:**   **27 Years & 3 Months**

B)   **Teaching Experience**   **:**   **27 Years & 3Months**

College & University	Year		Designation	Job description
	From	**To**		
Karpagam University Coimbatore	05.05.2014	Till date	Professor & Head	Administration and Teaching
Sri Shakthi Institute of Engineering and Technology, Coimbatore	01.06.2013	03.05.2014	Professor & Head	Administration and Teaching
Sri Shakthi Institute of Engineering and Technology, Coimbatore	01.06.2012	01.06.2013	Professor & Head	Administration and Teaching
Sri Shakthi Institute of Engineering and Technology, Coimbatore	01.06.2011	01.06.2012	Associate Professor and Head	Administration and Teaching
Sri Shakthi Institute of Engineering and Technology, Coimbatore	01.06.2010	01.06.2011	Assistant Professor(S) & Head	Administration and Teaching
Sri Shakthi Institute of Engineering and Technology, Coimbatore	01.06.2009	01.07.2010	Assistant Professor	Teaching
Sri Shakthi Institute of Engineering and Technology, Coimbatore	12.05.2008	01.06.2009	Senior Lecturer	Teaching
SNS College of Technology, Coimbatore	01.06.2006	09.05.2008	Assistant Professor & Head	Administration and Teaching
SNS College of Technology, Coimbatore	13.02.2006	01.06.2006	Senior Lecturer	Teaching
Park College of Engineering & Technology, Coimbatore	06.02.2001	12.02.2006	Senior Lecturer & Head	Administration and Teaching
Nanjappa Institute of Technology,Coimbatore	3.11.1996	05.02.2001	Senior Lecturer & Head	Administration and Teaching
Nanjappa Institute of Technology,Coimbatore	22.06.1992	2.11.1996	Lecturer	Teaching

C)   **Industrial Experience**   **:**   **NIL**

D)   RESEARCH EXPERIENCE

- As a Part Time Research Scholar, I carried out my Ph.D work in the area of Medical Image compression for a period of 6 years.
- Published more papers in reputed journals (SCI, WOS,Scopus)
- Published patents
- Produced 11 Ph.D Candidates and currently guiding 6 Ph.D Scholars.

E)   ADMINISTRATIVE EXPERIENCE   27 Years

Presently heading the Departments of Electronics and Communication Engineering and also Biomedical Engineering.

4.   <u>PUBLICATIONS</u>

Patents Published:
1. The Patent titled "INTELLIGENT VEHICLE DOOR MONITORING SYSTEM AND A METHOD TO CONTROL THE SAME" published on 2/8/2019
2. The patent titled "ADHESION TESTING MACHINE" Published on 01.02.2019.
3. The patent titled "HELMET SANITIZING MACHINE " published on 29/03/2019**.**

Book Chapter:

1. **Satya**wati S Magar, Bhavani Sridharan, "Comparative Analysis of Biomedical Image Compression Using Oscillation Concept and Existing Methods", Computational Vision and Bio Inspired Computing,pp 205-214**, 2018 (Springer)**

National/International Journal Publications:

Academic Year 2019-20 (May 2019 to August 2020) (Scopus-2, SCI-0)

1. Sreejith Damodaran and Dr.S.Bhavani, "PIR Sensor based Motion detection using fuzzy controller" International Journal of Recent Technology and Engineering Health and Technology, Springer, Vol No 8, Issue 1S5.,pp: 232-235, 2277-3878, June 2019 **(Scopus).**

2. G.R.Mahendrababu and S.Bhavani, "Primitive cells using Gate diffusion Input technique: A low power approach" International Journal of Recent Technology and Engineering Health and Technology, Springer, Vol No 8, Issue 1S5.,pp: 257-260, 2277-3878, June 2019 **(Scopus).**

Academic Year 2018-19 (May 2018 to April 2019) (Scopus-11, SCI- 1)

1. Satyawathi Magar and Dr.S.Bhavani," Hybrid image compression technique using oscillation concept & quasi fractal" Health and Technology, Springer, Vol No 7, Issue 3,pp: 236-238, 2227-524X, 19th April 2019 **(SCI).**

2. J. Shafiq Mansoor, Dr.S. Bhavani and P. Sasikala, " On Board Diagnostics (OBD) based AC Monitoring System Using Internet of Thing (IoT)" Jour of Adv Research in Dynamical & Control Systems, Special issue 15, ,pp: 730-734, November 2018.(Scopus)

3. M.Daranikumar,T.S.Aravinth and Dr.S.Bhavani,, "A Scheme for Delay Reduction in Double Tail Comparator for Low Power Applications" Jour of Adv Research in Dynamical & Control Systems, Special issue 15, ,pp: 721-725, November 2018.(Scopus)

4. T.S.Aravinth ,M.Daranikumar, and Dr.S.Bhavani,, "Design of Signal Feed-through Pulse Triggered Dual Dynamic Flip-Flop for Low Power" Jour of Adv Research in Dynamical & Control Systems, Special issue 15, ,pp: 714-720, November 2018.(Scopus)

5. Satyawathi Magar and Dr.S.Bhavani," Optimization before biomedical image compression using CLAHE and DCS" International journal of Engineering & Technology, Vol No 7, Issue 3,pp: 236-238, 2227-524X, September 2018 (Scopus)

6. Deepaliparag Adhyapak Sridharan Bhavani, "Combination of grid and force based sensor deployment method for wireless sensor network" Sensor Letters, American scientific publishers, Vol 16,Issue 6 pp 472-477,ISSN: 1546-1971, http://doi.org/10.11591/ijeecs.v10.i3.pp1287-1295.June 2018(Scopus)

7. Deepaliparag Adhyapak Sridharan Bhavani, "Fuzzy Clustered Ant based Cross Layered Wireless Multimedia Sensor Network for Quality of Service Parameter" Sensor Letters, American scientific publishers, Vol 16,Issue 16 pp 368-373,ISSN: 1546-1971, http://doi.org/10.11591/ijeecs.v10.i3.pp1287-1295.,June 2018(Scopus)

8. Deepaliparag Adhyapak Sridharan Bhavani, "Ant based cross layered optimization protocol for WMSN with fuzzy clustering" Indonesian journal of electrical Engineering and computer science, Vol 10,Issue 1 pp 295-301,2018(Scopus)

9. Deepaliparag Adhyapak Sridharan Bhavani, "Swarm based cross layer optimization protocol for WMSN" Indonesian journal of electrical Engineering and computer science, Vol 10,Issue 1 pp 302-308,2018 (Scopus)

10. Deepaliparag Adhyapak Sridharan Bhavani, "Grid & Force Based Sensor Deployment Methods in WSN Using PSO" Indonesian journal of electrical Engineering and computer science, Vol 10,Issue 1 pp 271-279, 2018(Scopus)

11. Deepaliparag Adhyapak Sridharan Bhavani, "Random, PSO & MDBPSO based sensor deployment in WSN" Indonesian journal of electrical Engineering and computer science, Vol 10,Issue 1 pp 286-294, 2018.(Scopus)

12. Syed jamesha and Dr.S.Bhavani "Improved secured route authentication in MANETs using secure location algorithm" Journal of advanced research in dynamical and control systems,Vol.9 No: 8, pp 2315-2333 , 2018(Scopus)

Academic Year 2017-18 (May 2017 to April 2018) (Scopus-16, Peer reviewed-1, SCI- 1)

1. Dr.S.Bhavani, P.Ligisha," Pelvic bone fracture detection using BPNN Journal of Advanced Research in Dynamical and Control systems" special issues on recent trends in engineering and managerial excellence 69-74 volume : issue: 03 May 2017(Scopus).

2. Dr.S.Bhavani N.Suresh kumar "Design and development of fuzzy based reliable scheme foe energy efficiency in MANET", ARPN Journal of Engineering and Applied Sciences Vol12 NO.9 May 2017(Scopus)

3. Dr.S.Bhavani N.Suresh kumar "RERMRS: residual Energy based reliable multipath routing scheme for increasing network life time in MANET" International journal applied engineering research Vol12 NO.9 May 2017(Scopus)

4. Dr.S.Bhavani Mr. Mahesh Navale "Comparative Analysis of Vertical Handover Algorithms," International journal applied engineering research Vol13 NO.6,pp. 4583-4587, June 2017(Peer reviewed).

5. K. Somu S. Bhavani "A Survey Of Network Partition-Based On QOS Improvement In MANETS" Pak. J. Biotechnol. Vol.14 (Special Issue II) Pp. 173- 177 (2017) Aug 2017(Scopus)

6. Keerthiga Devi Bhavani, S. "Design And Testability Of Z-Ternary Content Addressable Memory Logic" Pak. J. Biotechnol. Vol. 14 (Special Issue II) Pp. 169-173 (2017) Aug 2017(Scopus)

7. K.Somu , Dr.S.Bhavani "Density Based Real Time Partition Avoidance Mechanism For QOS Development In Manet Using Region Proximity Technique" Jour of Adv Research in Dynamical & Control Systems, 14-Special Issue Aug 2017. (Scopus)

8. S.Arunrajan, **Dr.S.Bhavani**, "Optimal and Reliable Routing in Cooperative Communication based Wireless Sensor Network Environment with Collision Avoidance", Jour Of Adv Research In Dynamical & Control Systems, pp.: 303-313,2017,14-Special Issue, Aug 2017(Scopus).

9. K.Somu, **Dr.S.Bhavani**, "Density based real time partition avoidance mechanism for qos development in manet using region proximity technique", Jour of Adv Research in Dynamical & Control Systems, pp No: 52-62,Special issue 14, August 2017. (Scopus)

10. K.Somu, **Dr.S.Bhavani**, "Time to Live Based Network Partition Using Adaptive Time Synchronization in Mobile AdHoc Networks", International Journal of Pure and Applied Mathematics, pp No: 593-603,Vol 116, Issue No:21 -Special Issue, October 2017. (Scopus)

11. Mr.N.A.Natraj, **S.Bhavani**, "A CERTAIN INVESTIGATION ON SECURE LOCALIZATION ROUTING PROTOCOL FOR WSN", Journal of Theoretical and Applied Information Technology, Vol.No 95 (22), Pp. 6022-6031, November 2017. (Scopus)

12. Ms.SreelajaUniithan, **S.Bhavani**, "Cross layer enhanced mobile routing for Maximizing stability in MANET", International Journal of Control theory and applications, Vol.No 10 (20), Pp. 153-169, November 2017. (Scopus)

13. Ms.Vijitha,,**S.Bhavani**," Connection termination period based secure Warm hole detection scheme in MANET", International Journal of Control theory and applications, Vol.No 10 (19), Pp. 207-220,November 2017. (Scopus)

14. Ms.SreelajaUniithan, **S.Bhavani**," RMCMDCR-Resource managing checkpoint and selfish detection with cluster routing in ADHOC Network", International Journal of Pure and applied Mathematics, Vol.No 114 (7), Pp. 663-673, September 2017(Scopus)

15. Ms.Vijitha, **S.Bhavani**, "WNTFLEP-Worm Node Detection With Two Fish Algorithm Based Secure Routing And Link Expiry Prediction", International Journal of Pure and applied Mathematics, Vol.No 114 (7), Pp. 675-685, September 2017..(Scopus)

16. N.A.Natraj and **Dr.S.Bhavani**, "SSMDGS: SCHEDULING BASED STABLE MULTICAST DATA GATHERING SCHEME FOR WSN", ARPN Journal of Engineering and Applied Sciences,Vol 24, Issue No: 12, Dec 2017.(Scopus)

17. Mahesh Navale and Dr.S.Bhavani, "Simulation of Vertical Handover Algorithm for Seamless Connectivity using Advanced Cuckoo Search Algorithm,", International Journal of Applied Engineering Research,Vol 12, Issue No: 18,pp 7897-7901 Dec 2017.(Scopus)

18. Syed jamesha and **Dr.S.Bhavani** A secure and efficient cluster based location aware routing protocol in MANET, Cluster Computing The Journal of Networks, Software Tools and Applications doi.org/10.1007/s10586-018-1703-4 January 2018**(SCI)**

Academic Year 2016-17(May 2016 to April 2017) (Scopus-5, Peer reviewed-2, SCI-1)

1. Dr. S.Bhavani, K.G.Dharani" Design of Nanoscale memristive arrays for memory applications , Advances in Natural and applied Sciences, vol.no 24(3), pp. 328-331, June 2016.(Scopus)

2. Satyawathi Magar and Dr.S.Bhavani," Innovative approach to biomedical image compression using oscillation concept,,pp: 124-128, September 2016 **(IEEE Explorer-SCI).**

3. Dr. S.Bhavani, Saniya Ansari " Devanagari handwritten word recognition using efficient and fast feed Forward neural network classifier International journal of advanced research , vol.no 4(10), pp. 2034-2043, October 2016.(Scopus)

4. Dr. S.Bhavani, Ligisha.P" A survey on pelvic bone fracture detection, International journal of research in engineering and technology , vol.no 5(22), pp. 19-22, October 2016.(Scopus)

5. Dr. S.Bhavani, Babu.P" A Novel Control Strategy For Modified SL - QZSI With Three Phase AC Grid Connected System , International journal of Control Theory and Applications , vol.no 9(31), pp. 219-230, October 2016.(Scopus)

6. Dr. S.Bhavani K.R.Joy" Improving Performance of IQA Algorithm: A Simplified Approach SSIM based on Image Gradients Indian Journal of Science and Technology, Vol 9(46), pp. 1-6, December 2016.(Scopus)

7. Dr. S.Bhavani S.Arunrajan " Optimized Energy Scheduling Algorithm for Energy Efficient Wireless Sensor Networks , International Journal of Electronic and Communication Engineering Vol:10, No:12,pp no: 1464-1467, December 2016.(Peer reviewed)

8. Satyawathi Magar and Dr.S.Bhavani, "An overview of different methods of digital image compression of medical images", IJIERT - International Journal of Innovations in Engineering Research and Technology, ICITDCEME-15, ISSN : 2394-3696, ,pp: 1-3, 2017 (Peer reviewed).

Academic Year 2015-16(May 2015 to April 2016) (Scopus-4, Peer reviewed-3)

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1. K.Vinothkumar and Dr. S.Bhavani, "An Effective Localization based optimized Energy Routing for MANET", Journal of theoretical and Applied Information Technology, Vol.no 77(2) , pp. 291-299, July 2015.(Scopus)

2. K.Vinothkumar and Dr. S.Bhavani, "Trust Based Multipath Authentication Protocol for Mobile Ad-Hoc Network", Journal of Computational and Theoretical Nano science, Vol.12 no 12, pp. 5479-5485, December 2015.(Scopus)

3. K.Vinothkumar and Dr. S.Bhavani, "Location based Multipath Routing Protocol for Network Connectivity in MANET", International Journal of Applied Engineering Research, Vol.no 10(1) , pp. 129-144, 2015.(Peer reviewed)

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Academic Year 2014-15(May 2014 to April 2015) (Peer reviewed-5)

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2. Dr. S. Bhavani, Vinoth Kumar," Distributed Denial of Service (DDOS) Attack, Networks, Tools and DEFENSE" International Journal of Applied Engineering Research 10(8):20959-20971, January 2015(Peer reviewed)

3. K.Ananadh Kumar, Dr. S. Bhavani," Arm Based Intelligent Environment Monitoring And Control System Via Zig bee Network Using GPRS/SMS", International Journal of science and Engineering Research, Vol 3 Issue 1, ,Jan 2015. (Peer reviewed)

4. Dr.S. Bhavani,Vinothkumar," An effective localization based optimized energy routing for wireless sensor network", Middle-east journal of scientific research, Volume 23 Issue 05,April 2015.(Peer reviewed)

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1. Bhavani,S and Thanushkodi,K., "Comparison of Fractal Coding Methods for medical Image compression", International Journal IET Image Processing,Vol.7, No.7, pp. 686-693, 2013(Web of Science)

2. Bhavani, S and Jaina George., "Automatic Inspection of Potential flaws in glass based on Image segmentation", IOSR Journal of Engineering, Vol. 3, No. 4, pp. 20-24,2013(Peer reviewed).

3. Bhavani, S and Thanushkodi, K., "Neural based domain and range pool partitioning using Fractal Coding for nearly lossless Medical Image Compression ", WSEAS Transactions on Signal Processing ,Vol. 9, No. 1, pp. 11-20,2013(Scopus).

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6. Bhavani, S, and V.Shalini., "SAR Image Segmentation Using Hierarchical Unequal Merging", International Journal of Engineering Research and Technology ,Vol. 2, No. 12, pp. 2175-2179, December 2013(Peer reviewed).

(iii) Academic Year 2012-13(May 2012 to April 2013) (Scopus-2, Peer reviewed-2)

1. Bhavani, S and Thanushkodi, K., " A New Algorithm for Fractal Coding Using Self organizing map", Journal of Computer Science,Vol. 8, No. 6, pp. 841-845,2012.(Peer reviewed)

2. Bhavani,S and Thanushkodi,K., " Improving the Performance of Fractal Based quasi lossless Medical Image coding Scheme using Machine learning based Partitioned and Domain Range Pools", European Journal of Scientific Research",Vol. 68, No. 4, pp. 475-486,2012.(Scopus)

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(iv) Academic Year 2011-12(May 2011 to April 2012) (Peer reviewed-2)

1. Soundarya,G and Bhavani,S., "Comparison of Hybrid Codes for MRI Brain Image Compression", Research Journal of Research Journal of Applied Sciences, Engineering and Technology,2012, 4(24), pp.5367-5371,(ISSN: 2040-7467).(Peer reviewed)

2. Bhavani.S, Soundarya.G, "Comparative Survey of MRI Brain Image compression using hybrid codes"International Journal of Computer Science and Communication, Vol No 3, No: 1, pp.35-39, Feb 2012 (Peer reviewed)

(v) Academic Year 2010-11(May 2010 to April 2011) (Peer reviewed-2)

1. Bhavani,S and Thanushkodi,K., "A Survey on Coding Algorithms in medical Image Compression, International Journal of Computer Science and Engineering, Vol. 2, No. 5, pp. 1429-1434,2010.(Peer reviewed)

2. Bhavani,S and Thanushkodi,K., "Wavelet Coding of Adaptive Mesh based 3D MR Image Compression", International Journal of Embedded systems & Computer Engineering, Vol. 2 (2010), No. 8., pp. 73-77,2010.(Peer reviewed)

(v) Academic Year 2009-10(May 2009 to April 2010) (Peer reviewed-2)

1. Bhavani,S and Thanushkodi,K., " Performance evaluation of Adaptive mesh based 3D MRI compression using wavelet coding schemes", International Journal of Engineering Science and Technology,Vol. 2, No. 6, pp. 2354-2358,2010.(Peer reviewed)

2. Bhavani,S and Thanushkodi,K., "Performance evaluation of 3D Magnetic Resonance Image compression using Wavelet coding, International Journal on Biometrics and Bioinformatics,Vol. 2, No. 8, pp. 153-156,2010.(Peer reviewed)

International Conferences

1. Soundarya,G and Bhavani,S., "Comparison of Hybrid codes for MRI Brain Image Compression", *International Conference on Image Processing Techniques & Applications(ICIPTA 2012)* ,SASTRA University, Thanjavur, April 6[th & 7th] 2012.

2. Bhavani,S and Thanushkodi,K., "3D MR Image Compression based on content based meshes using JPEG coding", *,International Conference(ISCO 09)* ,Karpagam College of Engineering, Feb 6th 2009.

3. Bhavani,S and Thanushkodi,K., "Wavelet coding of Adaptive Mesh Based 3D MR Image Compression", *International Conference on Intelligence Information system and Management (IISM'10),* (ISBN: 978-1-4507-2041-0) RVS College of Engineering, June 10-12th 2009.

National Conferences

1. Bhavani, S and Thanushkodi, K., "Medical Image Mesh based Compression-A Literature Review", *National Conference on Advanced Computing and Applications(NCACA-09),PSG* College of Technology, Feb 7-8th 2009.

2. Bhavani,S and Thanushkodi,K., "Non uniform Mesh based compression of MR Images using context based modeling", *National Conference CTCT'08*) Coimbatore Institute of Engineering & Information Technology,2007.

3.   Bhavani, S and Thanushkodi, K., "Adaptive Mesh based Lossless compression of 3 D MRI with contextual encoding", *National Conference on Recent Trends in Advanced Computing (NCRTAC'07),* SNS College of Technology, Oct 5th 2007.

5.AWARDS

- o Recipient of best teacher Award from Governor Dr Ram Mohan Rao.
- o Recipient of Gold medal for Topper and Best Outgoing student in PG in 2006.
- o Secured University Rank in PG in 2006.
- o Recipient of National Merit Scholarship from 1985 to 1990.

6.MEMBERSHIP IN PROFESSIONAL BODIES

- o Life Member of Indian Society for Technical Education since 1998
- o IETE Student Chapter Staff Coordinator at SIET and Karpagam University

7.SERVICE TO PROFESSION / PROFESSIONAL ACTIVITIES

- o Attend meetings of professional bodies if convenient.
- o Deliver guest lectures when invited.
- o Act as examiner for question paper setting/ evaluation
- o Acted as Chair/Co-Chair of various technical symposiums and conferences conducted by Engineering Colleges.
- o Organized National Level Technical Symposiums and International conferences.

8..REFERENCES

1. Dr.R.Sundararajan, (Principal Retd. GCT College of Technology)
   Registrar, Karpagam University
   Coimbatore-641021

                           Mobile:9443116013

2. Dr.K.Thanushkodi (Research supervisor). Director
   Akshaya College of Engineering & Technology
   Coimbatore-641004   Mobile:9843394451

9. CURRENT POSITION AND SALARY DETAILS

Designation   : Professor and Head and

Present salary   : Total emoluments: Rs. 1,07,500

10. ACCOMPLISHMENTS IN THE PRESENT POST

- o Have worked as Criteria Coordinator in NAAC and also NBA for University
- o Have established A Centre of Excellence for " Data Science and Big data Analytics.
- o Had set up various Labs in the Electronics and Communication and Biomedical Engineering Departments.
- o Have Set up Texas instruments Lab getting kits sponsored worth 2,00,000 in 4

Domains(Embedded, DSP and Analog) in 2014

- o Have started ICT ACT university membership during 2015 at Karpagam University
- o Have signed MOU with Steps knowledge services and Santham technologies, Coimbatore
- o Have organized summer school for 10 days on embedded systems and IoT during June 2016 and Organized ICMR sponsored National Seminar for 2 days during 2018 in BME department
- o Have organized and delivered distinguished lecture series in department
- o Have chaired sessions in National and International Conferences.
- o Certified for 2 courses in NPTEL during 2018-19.
- o Have created my own **you tube channel** (bhavani sridharan) and have uploaded lot of video lectures in various subjects for students all over the world. Currently very active and so far have 855 subscribers and particularly one lecture video crossed 21K views.

11.   PROFESSIONAL MISSION

> Adopting Conceptual based Teaching methodologies creating motivation to improve the technical skills and research attitude among students to provide quality engineering education. Modern appropriate teaching aids would be used for a precise and understandable delivery of lectures.

> Contributing effectively in the course development by providing suggestions for modifying the contents as needed to meet the technological growth.

> Inculcating interest among students to take up innovative projects and also providing guidance to the students in the area of Medical Image Processing. Publications is done out of research.

> Workshops/Symposiums/ Conferences would be organized. I would work with an involvement, dedication and sincerity for the growth of the Institution.

I declare that the particulars given are true to the best of my knowledge.

(SIGNATURE)