DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

INTRODUCTION

Department of Electronics and Communication Engineering (ECE) was established in the year 1997. It conducts a B.Tech program in ECE and two M.Tech programs in Embedded Systems and VLSI. The Department has several well-equipped laboratories, namely, Microwave Engineering, Digital Communications, Electronic Computer Aided Design and VLSI, Digital Signal Processing, Microprocessors and Microcomputers, IC Applications, Analog Communications, Electrical Engineering, Pulse and Digital Circuits, Electronic Circuit Analysis, Electronic Devices and Circuits, Simulation, Computer Programming, Engineering Drawing, Engineering Physics and Chemistry, and Advanced English Language Communication Skills.

The Department has been accredited by NBA first from 2006 to 2009 which was then renewed from 2009 to 2012.

The Department motivates students to take up innovative projects through participation in an active in-house product development Lab. Industry interaction is being promoted through several projects.

Doctorates in ECE

S.No	Name of the Faculty	Degree Awarded	No. of Publications(journals/conferences)
1	Dr.T.C.Sarma	2007	57
2	Dr.G. Mamatha	2013	10
3	Dr. V Ayyem Pillai	2014	04
4	Dr.Ch. Usha Kumari	2015	17

Research Projects/FDP's/Seminar Grants/Sanctioned

S.No	Name of the Faculty	Title	Name of the Funding Agency	Amount in Lakhs	Year
1.	Dr. T.C.Sarma	MODROBS	AICTE	18	2013

Resource Mobilization for Research (TEQIP-II)

S.No	Name of the Faculty	Title	Name of the Funding Agency	Amount	Year
1.	A.Radhanand	Embedded System through Arduino	TEQIP-II	17,875	2013

Faculty and their publications:

Dr. T. C. Sarma, HOD &Professor of ECE (ID-986)

Qualifications:B.E(ECE)1973,AndhraUniversity, Ph.D (BITS,PILANI- 2007)

Experience:11(Teaching) **37**(Industry)

Research Interest: Reconfigurable Systems, Embedded Systems, Intelligent Systems

Journal Publications/ Conference Proceedings: 58

Journal Publications:

International Publications

1. K.Sudha Rani, Dr.T. C. Sarma , Dr. K.Satya Prasad titled" "3DDicom Images Reconstruction Using Lab View" International Journal of Electrical, Electronics and Data Communication, ISSN: 2320-2084 Volume-2, Issue-1, Jan.-2014,Pg:20-22.
2. K.Sudha Rani, T.C. Sarma & K.Satya Prasad, Face Recognition Office Security System Using Lab View 8.6, International Journal of Electronics, Communication & Instrumentation Engineering Research and Development (IJECIERD) Jun 2013, Vol. 3, Issue 2, pp:195-200.
3. K.SudhaRani, T. C. Sarma & K.Satya Prasad, Text File Encryption Using FFT Technique in Lab View 8.6, International Journal of Research in Engineering and Technology (IJRET), Sep 2012, Vol. 1 Issue 1, pp.29-45.
4. T.C.Sarma, P.V.V.S.Rao,A.Venugopal,k.Chakradhar and P.Ravindra Kumar, Design of High Bit Rate Digital Correlators, IEEE TENCON–2003, Institute of Electronics and Electrical Engineering Region10 Technical Conference on Convergent Technologies for the Asia-Pacific, October 14– 17, 2003, Bangalore, India. IEEE Catalog No: 03CH 37503, Vol.4, pp 1485-1488.
5. T.C.Sarma and Anil Kumar, Data Reception Systems for IRS-1C, Published in current science journal special issue on IRS-1C, Vol.70, No – 7, dated April 10, 1996 , Indian Academy of Sciences , pp. 534- 542.

Conferences Proceedings:

International Proceedings

1. T.C.Sarma,et al..,'System Design of Indian Landsat Earth Station' was presented at 2nd Asian Conference on Remote Sensing Beijing, China. ISRO Publication No. ISRO-TR-18-81 ,1981.

2. T.C.Sarma, et al..,Satellite Image Processing System (SIPS) – Design and Development, International Geoscience and Remote Sensing Symposium (IGARSS) 1989 held in conjunction with 12th Canadian Sympoisum on Remote Sensing and URSI Commission F held at University of British Columbia, Canada, July 10th – 14th, 1989 (Paper IV Session D1 JUL 10, under the theme "Processing Systems").
3. This was further published in the Asian Pacific Remote Sensing Journal by Regional Remote Sensing Programme (RRSP) under ESCAP/ UNDP, July 1990.
4. T.C.Sarma and C.V.Srinivas, S-Band MSMR Archival and Realtime System (SMART**)** for IRS-P4 satellite, International Symposium on Advances in Microwave Remote Sensing Applications at CSRE, IIT – Mumbai, India, January 21 – 23 , 2003.
5. T.C.Sarma, P.V.V.S.Rao and A.Venugopal, "Design and Development of Remote Sensing Data Channel Performance Evaluator Simultaneously during the Video Data Download", IEEE India Council, 29th Annual Convention IEEE ACE-2003, under the theme : Emerging Technology Trends, Pune, India December 12 – 13, 2003 .
6. T.C.Sarma, A.Venugopal and T.Srujana, "Evolving System for remote control configuration and management" for an international seminar –IEEE TENCON 2006, Hong Kong November 14-17, 2006. ISBN:1-4244-0549-1. Digital Object Identifier: 10.1109/TENCON.2006.344212.
7. T.C.Sarma, Data Archival and Real-time Systems for Remote Sensing Satellites, 36th IETE Technical Conference, (A special workshop of IETE on Remote Sensing Ground Stations) Hyderabad, India, Oct 2-3,1993.
8. T.C.Sarma,C.Ashok Kumar and M.Suryanarayana, Data Path Controller for Switching High Speed Data" for the International Conference on Instrumentation (INCON-2004), by ISOI and Department of Instrumentation and Control, Pune Institute of Engineering and Technology, December 19-21, 2004 PUNE, India.
9. T.C.Sarma, T.Lingam,A.Venugopal and T.Srujana, "Design and Fabrication

Considerations for EMI-EMC Compliance IRIG-A Timing System for Remote Sensing Satellite Data", 36th Mid-Term Symposium on "Emerging and Futuristic Communication Systems" (EFCOS – 05) by IETE at IISC, Bangalore, April 29-May 01, 2005,pp. 185-192.

10. T.C.Sarma and P.Srinivasulu "Characterization of the Remote Sensing Data Acquisition through Simulation for Real time Data Acquisition", International Conference on Next Generation Communication Systems, ICON GENCOM-2006, Dec.9-11,2006, JK Institute of Applied Physics & Technology, Allahabad. Proceedings pp.226-229.
11. T.C.Sarma and C.V.Srinivas, "Modeling of a station to track the Overhead satellite passes for Remote Sensing satellites", International Conference on next generation communication System,ICONGENCOM-2006, Dec.9-11,2006, JK Institute of Applied Physics & Technology, Allahabad, Proceedings pp.243-245.
12. T.C.Sarma and C.V.Srinivas, "Design and Implementation of high bit rate satellite image data ingest and processing system", International Conference on Signal Processing, Communications and Networking (ICSCN 2007), by Dept. of Electronics Engineering, Madras Institute of Technology, Chennai, February 22-24, 2007,proceedings by IEEE publications management group, printed by Allied publishers, Chennai, pp 149-152
13. T.C.Sarma and C.V.Srinivas "Design and development of elevation independent tracking system for the remote sensing satellite data acquisition", International Conference on Signal Processing, Communications and Networking (ICSCN 2007), by Dept. of Electronics Engineering, Madras Institute of Technology, Chennai, February 22-24, 2007, proceedings by IEEE publications management group, printed by Allied publishers, Chennai, pp 204-207.
14. T.C.Sarma, Venugopal and T.Srujana, Realtime data quality assessment of remote sensing satellite data reception, IEEE TENCON 2007 scheduled to be held during October 30 – November 02, 2007, at Taipei International Convention Center, Taipei, Taiwan. (Accepted Paper ID # 00572).
15. T.C.Sarma, A.Venugopal and T.Srujana, Remote Configuration and management of cross point switch through evolvable Hardware, International Conference on Intelligent and Advanced Systems, ICIAS 2007, Scheduled for November 25-28, 2007, KL Convention Center, Kuala Lumpur, Malaysia by University of Technology PETRONAS. Paper ID # 15690 51497

16. T.C.Sarma, PVVS Rao and A.Venugopal, Analysis and Design of doppler compensated clock for synchronization during data loss from remote sensing satellites, International Conference on Intelligent and Advanced Systems, ICIAS 2007, Scheduled for November 25-28, 2007, KL Convention Centre, Kuala Lumpur, Malaysia by University of Technology PETRONAS. Paper ID # 15690 56207.
17. T.C.Sarma, PVVSRao and A.Venugopal, Analysis and design of Doppler compensated clock for Synchronization during the data loss from remote sensing satellites, International Conference on Signal Processing, Communications and Networking (ICSCN-2008) scheduled to be held at MIT, Chennai during Jan.04-06, 2008.
18. T.C.Sarma, Design and development of automatic Report Generation System for Realtime data acquisition for Remote Sensing Satellites, for an International Conference on Sensors, Signal Processing, Communication, Control and Instrumentation (SSPCCIN), scheduled from January 03-05, 2008 at VIT, Pune.
19. T.C.Sarma & A.Venugopal, Near Realtime high speed satellite based data distribution system for remote sensing satellite Image data, for Indo-US Symposium on Data, Information & Knowledge Spectrum (ISDIKS- 2007), December 13-15, 2007, Amrita Viswa Vidyapeetham, Kerala State, India.
20. T.C.Sarma, Modelling and development of systems for the automated validation of antenna pointing accuracies for data reception from remote sensing satellites, for the IEEE International Conference on Industrial Technology (IEEE ICIT2008), April 21-24,2008,Sichuan University, Chengdu, China.
21. T.C.Sarma & A.N.Satyanarayana, Modelling of Tracking errors for Remote Management of Remote Sensing Satellite data acquisition, for an International Conference on Sensors, Signal Processing, Communication, Control and Instrumentation (SSPCCIN), scheduled from January 03-05, 2008 at VIT, Pune, India.
22. K.Sudha Rani, A.Swapna Rani, K.Mani Kumari, T.C.Sarma &.K.Satya Prasad, Lab view Based Brain Tumor Area and Length Detection In CT and MRI Scan Images, 2nd International Conference on Computing, Engineering and Information Technology (ICCEIT 2013), Sept 20, 2013, pp: 71-74, Bangalore, India.
23. K.Sudha Rani, R.Ravindra Reddy, K. ManiKumari, T.C. Sarma & K.Satya Prasad, 3D DICOM Images Reconstruction using Lab view, International Academic Conference on Electrical, Electronics and Computer Engineering 2013(IACEEC2013), pp: 5-7, Nov 02,

2013, Bangalore, India.

National Proceedings

1. T.C.Sarma, et al..,'Video Disk as an Interface to TPA-70 computer' SEO – SAC – P306 – 76-04-5-10 in April 1976,SAC/ISRO Publication.
2. T.C.Sarma, et al .," Graphic Display System**",**SAC/ISRO Publication SEO – SAC – PE06 – 76 – 02 – 5 – 02 in March 1976.
3. T.C.Sarma, et al..,'Landsat Tape to TV Display' NRSA-TR-0104 Volume 11 of 1980,.NRSA/DOS Publication.
4. T.C.Sarma, et al..,A Scientific Excursion with Earth Station Complex, NRSA – ESD – IR-02(A), Feb.1983, NRSA/DOS Publication.
5. T.C.Sarma,et al..,'The Color Display System' NRSA-TG-RRSSC-85-01/ Feb.1985,NRSA/DOS Publication.
6. T.C.Sarma K.K.Rao and R.Ravi Kumar, Bit Error Analyser**,** Seventeenth National Systems Conference (NSC – 93), Dec. 24^{th} – 26^{th}, 1993, IIT- Kanpur,Allied publishers,New Delhi,1993,pp. 53-56.
7. T.C.Sarma, P.Srinivasulu and B.Venunadha Babu, High Density Digital Tape Certifier**,** National Symposium on Electronic Product Design (NSEPD – 94), Feb.18^{th} -20^{th}, 1994, Aurangabad,Allied publishers, New Delhi,1994,pp. 139-144.
8. T.C.Sarma and P.V.Mathew, PC Based Tape Certifier System**,** 18^{th} National Systems Conference(NSC – 94 , paper Code : CMM – 40), Faculty of Engineering, Dayalbagh Education Institute, Agra ,January 14 – 16, 1995.
9. T.C.Sarma, PVVS Rao and A.N.Satyanarayana, AVHRR Data Link Analyser**,**TROPMET-95,Advances in Meteorology by Indian Meteorological Society, Tata McGraw-Hill,New Delhi,,pp. 535-538.
10. T.C.Sarma and S.Yadagiri, Real-time AVHRR Data Monitoring System, TROPMET-95,Advances in Meteorology by Indian Meteorological Society,Tata McGraw-Hill,New Delhi,pp. 531-534.
11. T.C.Sarma, C.V.Srinvas and A.Venugopal, PCBased Real-Time Direct Data Archival System for Metsat**,** Tropmet 2000,National Symposium on Tropical Meteorology ,Feb1-4, 2000, proceedings by Indian Meteorological Society, pp 359-367.
12. T.C.Sarma, P.V.V.S.Rao, Radha.N., and A.Venugopal, Bit Error Rate Test System**,**

National Symposium on Instrumentation, (NSI –27), November 27 – 29, 2002, Bharathiar University, Coimbatore, India.

13. T.C.Sarma and K.K.Rao, "IRS-P6 Satellite Real-time Data Archival, Quick Look and Browse System, National Seminar on Remote Sensing and its application in Environmental Management", March 25 – 27, 2004 Bangalore University, Bangalore, India
14. T.C.Sarma, P.V.V.S.Rao and A.Venugopal, "Reducing the BER Measurement times by means of statistical approaches for Realtime Remote Sensing Satellite Data Acquisition Channel Performance Evaluation during Image Data Download", National Symposium on Instrumentation (NSI-30), November 30th, December 1-2, 2005, Cochin University, Cochin, India.
15. T.C.Sarma and C.V.Srinivas, "Remote Sensing Satellite Data Management System – D2R2T approach", National Conference on Recent Trends in Electronics and Instrumentation (RTEIT-2006) by Electronics and Telecomm and IT dept., SRE College of Engineeering, Kopargon, July 28-29, 2006, under data mining and warehousing, pp. 137-143.
16. T.C.Sarma and C.V.Srinivas, "Real Time Remote Sensing Satellite Data display at remote location by using Broad Band Network," National Conference on Broad Band Communications Systems (NCBCS-2006), organized by VIIT, Pune, Sep 2-3, 2006,proceedings by Tata McGrawhill, New Delhi,pp 127-133.
17. T.C.Sarma "Technological Evolutions for the Next Generation Networking Systems", National Seminar on Role of Telecommunications for Betterment of Society ,by the Institute of Engineers (India), AP State Center ,Hyderabad ,July 15-16, 2006, pp. 1.43-1.49.
18. T.C.Sarma and C.V.Srinivas, "Station Control for Remote Sensing Satellite Data Acquisition", 41st National Convention of CSI 2006, Proceedings by Tata Mcgrawhill, New Delhi, 2006, pp. 289-292 .
19. T.C.Sarma, C.V.Srinivas, et al., "Realtime Data Acquisition Information Systems for Remote Sensing Satellites", 41st National Convention of CSI 2006, Proceedings by Tata Mcgrawhill, New Delhi, 2006, pp. 293-296.
20. T.C.Sarma, Realtime Space Imaging, National Workshop on Pattern recognition and Image Processing, Nagarjuna University, Guntur, AP, India, Dec. 18-20,

2006,proceedings by the university, pp. 139-148.

21. T.C.Sarma, Evolvable Hardwares for remote management of systems, National Workshop on VLSI and Image Processing,Chaitanya Bharathi Institute of Technology,Hyderabad,India,Dec.8-9,2006.
22. T.C.Sarma, Evolvable Hardwares, National Conference on Engineering Trends in Electronics (NCETE-2006), Maharashtra Academy of Engineering, Pune,India,Dec28-29,2006.
23. T.C.Sarma, "Reconfigurable Satellite data simulators for Remote Sensing Satellites",National Symposium on Instrumentation,(NSI-31),Oct.12-15, 2006, by ISOI and ITM at ITM, Gwalior (paper#209).
24. T.C.Sarma, A.Venugopal and T.Srujana, "Implementation of Remote Diagnostics and field upgradability in IRIG-A timing systems", National Symposium on Instrumentation,(NSI-31),Oct.12-15, 2006, by ISOI and ITM at ITM, Gwalior (paper#289).
25. T.C.Sarma, PVVSRao, C.Ashok Kumar, Improving the satellite image location accuracy and validation of the clock variation models through GPS time reference, National Conference on Global Navigation Satellite System and its applications (GNSS 2007), organized by Research and Training Unit for Navigational Electronics, Osmania University, Hyderabad during October 25-26, 2007,proc. pp 94-97.
26. T.C.Sarma & CV Srinivas, Development of the onboard GPS data acquisition system for the Orbit determination in Indian Remote Sensing Satellites, National Conference on Global Navigation Satellite System and its applications (GNSS 2007), organized by Research and Training Unit for Navigational Electronics, Osmania University, Hyderabad during October 25-26, 2007, proc. pp 1-4.
27. T.C.Sarma, An automated approach for the information management for its life cycle in IT industry and its applications to remote sensing satellite data, for an all India seminar on "Role of IT in infrastructure development" conducted by The Institute of Engineers (India) at Andhra Pradesh Center ,Hyderabad, Feb 23-24,2008.
28. K.Sudha Rani, A.Swapna Rani, K.Mani Kumari, T.C.Sarma & K.Satya Prasad, Brain Tumor Detection Using Color Thresholding and Edge Detection in Lab view Techniques, National Symposium on Instrumentation -38 (NSI -38),Oct 24-26, 2013, pp: 165, Hubli ,Karnataka,India.

29. K.Sudha Rani, N.Venkata Rao, K.ManiKumari, T.C.Sarma & K.Satya Prasad, Discrete Wavelet Transform in Image Compression Using Lab view, National Symposium on Instrumentation -38 (NSI -38), Oct 24-26, 2013, pp: 166 , Hubli, Karnataka, India.

Dr. G.Mamatha Professor (ID-1301)

Qualifications: BE from Mysore University(1991), MS from BITS Pilani(1995), Ph.D (Full time) from IIIT Hyderabad(2013)

Experience: 18 years(Teaching), 6 years(Research)

Research Interest: VLSI, Signal Processing

Journal Publications/ Conference Proceedings: 10

Journal Publications

International Journals :

1. Mamatha Samson,Madhulatha "Energy Efficiency Enhancement for 45nm 1Mb SRAM Array Structures" International Journal of Computer Applications VOL 105 No 5, November 2014,pp 16-20

2. Keerthi .V, Mamatha Samson "Design of BIST with Low Power Test Pattern Generator" IOSR Journal of VLSI and Signal Processing Volume 4, Issue 5, Ver. II (Sep-Oct. 2014), pp 30-39
3. Mamatha Samson "Effect of Phase of Noise on 6T SRAM cell", IOSR Journal of VLSI and Signal Processing Volume 4, Issue 3, Ver. I (May-Jun. 2014), pp 30-38
4. Mamatha Samson Stable and Low Power 6T SRAM International Journal of Computer Applications VOL 78 NO 2 September 2013 pp 6 -10
5. Mamatha Samson,"Static Performance Analysis of Low power SRAM" IJCSNS International Journal of Computer Science and Network Security, VOL.10 No.5, May 2010, pp 189-195

Conference Proceedings

International Conferences:

1. Mamatha Samson, Satyam MandaValli "Adiabatic 5T SRAM" International Symposium on Electronic System Design (ISED) 2011 (IEEE Co sponsored) (19-21 December 2011, Kochi, India) .
2. Mamatha Samson, "Performance Analysis of Dual Vt Asymmetric SRAM -Effect of Process Induced Vt Variations" International Conference on Advances in Computing, Control, and Telecommunication Technologies, ACT2009 December 28-29, 2009, Trivandrum, Kerala, India.
3. Mamatha Samson, M.B Srinivas "Analysis of faults of drowsy SRAM cell considering the effect of process variation." VLSI Circuits and Systems- SPIE EUROPE Micro technologies for the New Millennium 4 - 6 May 2009, Dresden, Germany.
4. Mamatha Samson, M.B Srinivas "Analyzing N-Curve Metrics for Sub-Threshold 65nm CMOS SRAM" proceedings of 8th IEEE Conference on Nanotechnology,2008.(Nano'08)pp 25-28,(2008)18-21 August, Arlinton, Texas, U.S.A
5. Mamatha Samson, M.B Srinivas "Read Stability and Write Ability Analysis of Dual – Vt Configurations of a single Cell of an SRAM Array-Effect of Process-Induced Intra-Die Vt Variations" proceedings of 2ND IEEE International Nanoelectronics Conference(INEC008)pp 1015-1019,(2008)24-27 March, Shanghai, China.

Dr. V Ayyem Pillai, Professor of ECE (ID-1294)

Qualifications: AMIE(Electronics & Communication Engineering) 1998, Institution of Engineers, India, ME(Industrial Electronics), Maharaja Sayajirao University of Baroda, Ph.D (Anna University)

Experience:12Years(Teaching) **15 years**(Industry-Indian Air Force)

Research Interest: Antennas, Smart antennas, MIMO,Signal Processing

Journal Publications/ Conference Proceedings: 5

Journal Publications:

International Publications

1. G. V. Subba Reddy, V. Ayyem Pillai, A Study of Sample Matrix Inversion Algorithm for Smart Antenna Applications, Volume 9, Issue 15, April 2016 –IJST

2. Ayyem Pillai, V & Sudhakar, R 2013, 'A Low Complexity Near-Optimal MIMO Antenna Subset Selection Algorithm for Capacity Maximisation," Hindawi, International Journal of Antennas and Propagation, vol. 2013, Article ID 956756, 11 pages, 2013. doi:10.1155/2013/956756 (ISSN 1687-5869, Thomson Reutors JCR impact factor 0.827)
3.Ayyem Pillai, V & Sudhakar, R 'Computationally efficient norm-based capacity-Maximizing MIMO antenna selection algorithms', Springer, National Academy Science Letters- Published online DOI: 10.1007/s40009-014-0255-2 (ISSN 0250-541X, Thomson Reutors JCR impact factor 0.240).
4. Ayyem Pillai, V, "Decoupled Transmit/Receive Incremental Successive MIMO Antenna Selection for Capacity Maximisation" Journal of Theoretical and Applied Information Technology(E-ISSN 1817-3195 / ISSN 1992-8645) accepted for publication. (Scopus Index)

Conference Proceedings

International Conference

1. Ayyem Pillai, V & Sudhakar, R 2013, 'V-BLAST detectors: Performance investigation in correlated condition and time analysis', Proceedings - 2013 IEEE International Multi Conference on Automation, Computing, Control, Communication and Compressed Sensing, iMac4s, pp. 98-103, DOI: http://dx.doi.org/10.1109/iMac4s.2013.6526390

Dr. Usha Kumari Chintalapati, (ID-1361)

Qualifications: B.Tech (ECE) 2003, M.Tech (Communication Engineering) AU-2005, Ph.D (JNTUH-2015)

Experience: 11 years

Research Interest: Wireless Communications

JournalPublications/Conference Proceedings: 18

Journal Publications:

International Publications:

1. "Investigation of GDOP for Precise user Position Computation with all Satellites in view and Optimum four Satellite Configurations": J. Ind. Geophys. Union , Vol.13, No.3, pp.107-116, July 2009
2. "Erlang Capacity Evaluation in GSM and CDMA cellular systems" : International Journal of Mobile Networks Communication & Telematics (IJMNCT), Volume 2, No. 5, pp. 25-32, October 2012
3. "Modelling of WCDMA Base Signal in Multipath Environment", International Journal of Application or Innovation in Engineering & Management (IJAIEM), Volume 3, Issue 3, pp.324-330, March 2014
4. "Spectrum Sensing Based on Enhanced Energy Detector in Cognitive Radio Communications", International Journal of Scientific Engineering and Technology Research (IJSETR), Volume 4, Issue 2, pp.0195-0198, January 2015.
5. "Estimation of Bit Error Rate and Mean Square Error in 4G Wireless Networks", International Journal of Enhanced Research in Science Technology & Engineering (IJERSTE), Volume 4, Issue 3, pp.208-215, March 15.

International Conference Proceedings:

1. "Design and Implementation of Trellis Coded Modulation Scheme to Improve the BER of GPS Signal" in 2009 International Symposium on GPS/GNSS November 4~6, 2009 ICC Jeju, Korea.
2. "GPS Receiver Position by Least Square Approximation Technique", in 2010 International Conference on Mobile Internet Devices December 17~18, 2010, at Gokaraju Rangaraju Institute of Engineering Technology Hyderabad.
3. "Next Generation Heterogeneous Wireless Networks Handover Probability Analysis Based on Equal Bandwidth Allocation", in 2010 International Conference on Mobile Internet Devices December 17~18, 2010, at Gokaraju Rangaraju Institute of Engineering Technology, Hyderabad.
4. "Estimation of Path Loss in the Received Signal under Different Path Loss models in 4G Systems", in 2016 IEEE Sponsored International conference on Innovations in Information, Embedded and Communication Systems (ICIIECS 16), March 17~18, 2016, at Karpagam College of Engineering, Coimbatore, Tamil Nadu.

National Conference Proceedings:

1. “Side Lobe Reduction for Electromagnetic Compatibility using Arrays” in National Conference on Emerging And Converging Communication Technologies (SECT-07) on February 10~11,2007, at ANDHRA UNIVERSITY, Visakhapatnam.
2. “Investigation of Path Loss and Shadowing Effects in Mobile Radio Channel” in National Conference on Advances in Communication Technologies (NCACT’12) on January 9~10, 2012, at GITAM Institute of Technology, GITAM UNIVERSITY, Visakhapatnam.
3. “Coverage and Capacity Prediction for WCDMA Air Interface Technology in the GVMC” in National Conference on Advances in Communication Technologies (NCACT’12) on January 9~10, 2012, at GITAM Institute of Technology, GITAM UNIVERSITY, Visakhapatnam.
4. “Investigation of Performance Analysis on Capacity for UMTS Cellular Networks” in conference on Advances in Communication, Navigation & Computer Networks (ACNCN-2012) on March 17~18, 2012, at Department of ECE, Andhra University College of Engineering (A), Visakhapatnam.
5. “Mobile Radio Channel Propagation Modelling for WCDMA Technology” in conference on Advances in Communication, Navigation & Computer Networks (ACNCN-2012) on March 17~18, 2012, at Department of ECE, Andhra University College of Engineering (AU), Visakhapatnam.
6. “Investigation of Capacity parameters for a 3G WCDMA Cellular Network” in national conference on Emerging Trends in Electronics and Communication Technologies, (NCECT’12) on 28th March 2012, at Department of ECE, JNTU College of Engineering (Autonomous), JNTU Anantapur.
7. “Propagation Characteristics of a Mobile Radio Channel in rural, Urban and Suburban areas for WCDMA Technology” in national conference on Emerging Trends in Electronics and Communication Technologies, (NCECT’12) on 28th March 2012, at Department of ECE, JNTU College of Engineering (Autonomous), JNTU Anantapur.
8. “Performance Analysis of GSM Cellular Network Traffic Capacity with Co-channel Interference”, IETE Conference on Advanced Communications and Computer Technologies(ACCT-2012), July 6~7, 2012, NSTL Visakhapatnam.
9. “Evaluation of Erlang Capacity for CDMA and Wideband CDMA Cellular Systems”, IETE Conference on Advanced Communications and Computer Technologies (ACCT-2012), July 6~7, 2012, NSTL Visakhapatnam.

V. Aravind, Professor (ID-120)

Qualifications: Pursuing Ph.D

B.E. (ECE) (Thapar Institute of Engg & Technology, Patiala, 1988), M.S. (EE) Northern Illinois University, IL, USA, 2000)

Experience: 12(Teaching) **14** (Industry)

Research Interest: Signal Processing, Image Processing, Multimedia, Embedded systems, Radio Frequencies

Journal Publications/ Conference Proceedings: 1

Journal Publications:

International Publications

1. Hand-held Unit for Imaging ISSN: 2249-8958 International Journal of Engineering & Advanced technology

T. Jagannadha Swamy, Assoc. Professor (ID-422)

Qualifications: Pursuing Ph.D

B.Tech (ECE) (Nagarjuna University, 2001), M.E. (ECE) (Osmania University, 2006)

Experience: 14 years

Research Interest: Digital Signal Processing, Wireless Embedded Networks

Journal Publications/ Conference Proceedings/ Chapters in Textooks: 10

Chapters in Textbooks:

1. **March 2016:** Mr. T.Jagannadha Swamy, Associate professor contributed as an author for a book chapter with the following details:

   Swamy, T. J., & Murthy, G. R. (2016). Cost Minimization of Sensor Placement and Routing in Wireless Sensor Networks: Placement and Routing Issues in a Random Plane.

In N. Chilamkurti (Ed.), Emerging Innovations in Wireless Networks and Broadband Technologies (pp. 115-134). Hershey, PA: Information Science Reference. doi:10.4018/978-1-4666-9941-0.ch006.

Journal Publications:

International Publications:

1. T. Jagannadha Swamy, "Novel Energy Efficient Dynamic Routing Protocol for Wireless Sensor Networks, (IJARCS), 5(7), 2014, pp 9-15.
2. Energy Efficient Architecture to Cognitive Radio Wireless Sensor Networks International Journal of Computer Networks and Wireless Communications (IJCNWC), ISSN: 2250-3501
3. Non Uniform Grid based Cost minimization in Wireless Sensor Networks International Journal on Wireless Networks and Broadband Technologies (IJWNBT) DOI: 10.4018/IJWNBT, ISSN: 2155-6261, EISSN: 2155-627X.

Conference Proceedings:

International Proceedings:

1. "Link Evaluation of Uniform Grid Based Wireless Sensor Networks to Base Station with Leveling and Clustering ICCCI 2013 DOI: 10.1109/ICCCI.2013.6466146.

2. Spectrum sensing: Approximations for Eigen value ratio based detection ICCCI 2012 DOI: 10.1109/ICCCI.2012.6158914

3. Maximizing the overall throughput of Radio Frequency Spectrum Management in Cognitive Radio Environment ICACM 2011 ISBN:978-93-81269-40-4

4 . Adaptive Digital Beam forming for Radar antennas National Congress on CCAES

N**ational Proceedings**

1.DEEP: Dynamic Energy Efficient Protocol to Wireless Sensor Networks for Secure Routing ICMID 2010

2. Adaptive Digital Beam forming for Radar antennas National Conference on CCAES

M. Kiran, Assoc. Professor (ID-403)

Qualifications: B.Tech (ECE) (Acharya Nagarjuna University, 2001), M.Tech (C&C) (JNTU-K, 2007)

Experience: 12 yrs

Research Interest: Computers and Communications, Wireless communication

Journal Publications/ Conference Proceedings: 2

Conference Proceedings:

International Proceedings

1. M. Naveen Kumar, M.Kiran "Design and Implementation od DDR3 controller with AXI complioncy" IJAR in computer and communication Engineering Vol.4, Issue 8, August 2015

2. L.Sujitha, M.Kiran**,** "LUT Design using OMS Technique for memory Based realization of FIR Filter", IJERT, 9/1/2014, Vol-2 (6).

3. Pavan Kumar, M.O.V.; Kiran, M., "Design of optimal fast adder," Advanced Computing and Communication Systems (ICACCS), 2013 International Conference on, vol., no., pp.1,4, 19-21 Dec. 2013,Publisher:IEEE doi: 10.1109/ICACCS.2013.6938692

Y.Sudarsana Reddy Associate Professor (ID-126)

Qualifications: Pursuing Ph.D

B.E. (ECE) (MysoreUniversity,1993), M.Tech(DSCE)(JNTUA,2005) ,M. Tech(DSCE)(JNTUH,2011)

Experience: 19(Teaching)

Research Interest: Optical, Embedded systems

Journal Publications/ Conference Proceedings: 2

Journal Publications:

International Publications

1.Y.Sudarsana Reddy, K_ Multiprocessor Group(KMG) Optimal Scheduling Algorithm for Reducing Preemptions and Migrations in RTS

2. RTS Optimal Scheduling Algorithm-SBF9 for reducing of Preemptions and Migrations in Multiprocessor.

K.Padmavathi Associate Professor (ID-614)

Qualifications: BE from Andhra University(2000), M.Tech from JNTUA(2005)

Experience: 14 years

Research Interest: Signal Processing

Journal Publications/ Conference Proceedings: 17

Journal Publications:

International Publications:

1. Padmavathi Kora, K. Sri Rama Krishna, " ECG Based Heart Arrhythmia Detection Using Wavelet Coherence and Bat Algorithm" Sensing and Imaging, Springer, Vol 17, no. 1, Jun 2016. DOI: 10.1007/s11220-016-0136-5.

2. Padmavathi Kora, "Bundle Block detection using Differential Evolution and Levenberg Marquardt Neural Network," Pakistan Journal of Biotechnology. Vol 13, Jun 2016. (SCOPUS)

3. Padmavathi Kora, K. Sri Rama Krishna, ”Adaptive Bacterial Forging Optimization for the detection of Bundle Branch Block,” Egyptian Informatics Journal, Elsevier, Vol 17, June 2016. (SCI Expanded, Impact Factor: 0.810). DOI: 10.1016/j.eij.2016.04.004.

4. Padmavathi Kora, K. Sri Rama Krishna, ”Hybrid Firefly and Particle Swarm Optimization algorithm for the detection of Bundle Branch Block,” International Journal of Cardiovascular Academy, Elsevier, Dec 2015. doi: 10.1016/j.ijcac.2015.12.001.

5. Padmavathi Kora, and Sri Ramakrishna Kalva, ”Improved Bat algorithm for the detection of myocardial infarction,” SpringerPlus, Springer, vol 4, no. 1, pp. 1-18, Nov 2015. (SCI Expanded).). 0.981 Impact Factor.

6. Padmavathi Kora, and Sri Rama Krishna, “Hybrid Bacterial Foraging and Particle Swarm Optimization for detecting Bundle Branch Block,” SpringerPlus, Springer, vol 4, no 1, 481, Sep 2015. (SCI Expanded).

7. Padmavathi Kora, K. Sri Rama Krishna, “Classification of Bundle Branch using Magnitude Squared Coherence”, ARPN Journal of Engineering and Applied Sciences, vol 10, no 14, pp. 5984-5989, Aug 2015. (Scopus indexed)

8. Padmavathi Kora, K. Sri Rama Krishna, “Detection of Atrial Fibrillation using Continuous Wavelet transform and Wavelet Coherence,” International Journal of Systems Control and

Communications (IJSCC), Inderscience Publisher, vol 6, no 4, pp.292 - 304, 2015. (Scopus indexed).

9. Padmavathi Kora, K. Sri Rama Krishna, "Detection of Atrial Fibrillation using Autoregressive modeling" International Journal of Electrical and Computer Engineering (IJECE)," vol. 5, no.1, pp. 64-70, Feb 2015. (Scopus indexed

10. Padmavathi Kora, K. Sri Rama Krishna, "Myocardial Infarction detection using DSKC6713," International Journal of Applied Engineering Research (IJAER), vol 10, no.1, pp. 2137-2148, Jan 2015. (Scopus indexed).

Conference Proceedings

International Proceedings

1. Priyanka Yadlapalli, Ambika Annavarupu, Padmavathi Kora, "Performance enhancement of CS – SCHT based MIMO using Alamouti Scheme, " ICIIECS 16, IEEE, Coimbatore, Mar 2016.

2. Padmavathi Kora, K. Sri Rama Krishna, "Bundle Block Detection using Genetic Neural Network," International System design and Intelligent Applications
(INDIA), AISC, Springer, Jan 2016.

3. Padmavathi Kora, K. Sri Ramakrishna, "Detection Bundle Branch Block using Firefly Algorithm," 6th joint International Conference on Swarm, Evolutionary and Memetic Computing (SEMCCO 2015), Hyderabad, INDIA, LNCS, Springer, DEC 2015. 4. Padmavathi Kora, K. Sri Rama Krishna, "Detection of Bundle Branch Block using Bat Algorithm and Levenberg Marquardt Neural Network," ICT for Intelligent Systems (ICTIS), Ahmedabad, INDIA, SIST, Springer Verlag, Nov 2015.

5. Padmavathi Kora, K. Sri Rama Krishna, "Bundle Block detection using Bat algorithm," National Conference on Innovations and Design Challenges in Electrical and Medical Electronics (NCIDCEME), GRIET, Aug 2015.

6. K. Padmavathi, K. Sri Rama Krishna, "Classification of ECG signal during Atrial Fibrillation using Autoregressive modeling," International conference on Information and Communication Technologies, Elsevier Procedia Computer Science, Kerala University of Science and Technology, Kerala, December 2014.

7. Padmavathi K, and Sri Rama Krishna K, "Myocardial infarction detection using magnitude squared coherence and Support Vector Machine," Conference on Medical Imaging m-Health and Emerging Communication Systems (MedCom), International, pp. 382-385, IEEE, 2014.

K.N.B. Kumar, Assoc. Professor (ID-676)

Qualifications: Pursuing Ph.D

B.E. (ECE) (Andhra University, 1987), M.Tech (CS) (BIT- Mesra, Ranchi, 2002)

Experience: 7(Teaching) **20**(Industry)

Research Interest: Reconfigurable Systems, Wireless Communications, Embedded System Design

Journal Publications/ Conference Proceedings: 2

Conference Proceedings:

International Proceedings

1. Bandwidth Efficient Remote Data Acquisition for Internet ICMID 2010

National Proceedings

1. A systems approach to driver assistance systems in Low visibility conditions ASR-NSC 2009

A. Radhanand, Assoc. Professor (ID-677)

Qualifications: Pursuing Ph.D

B.E. (ECE) (Andhra University, 1983), M.S. (Software Systems) (BITS-Pilani, 2005), M.Tech (ECE) (JNTU-H, 2008)

Experience: 7(Teaching) **20**(Industry)

Research Interest: Microcontrollers, Sensors, Image Processing, Digital Signal Processing

Journal Publications/ Conference Proceedings: 2

Conference Proceedings:

International Proceedings:

1. ICMID 2010, The case for Reconfigurable Hardware as a platform for Mobile Internet Devices (MIDS)

National Proceedings

1. A systems approach to driver assistance systems in Low visibility conditions ASR-NSC 2009

N. Swetha, Assoc. Professor (ID-479)

Qualifications: Pursuing Ph.D

B.Tech (ECE) (JNTU-H, 2003), M.Tech (ECE) (JNTU-H, 2009)

Experience: 12 yrs

Research Interest: Embedded Systems

Journal Publications/ Conference Proceedings: 7

Journal publications:

International publications

1. Swetha N, Sastry P N, Rao YR, Sabat SL. "Parzen window entropy based spectrum sensing in cognitive radio. Computers & Electrical Engineering, Elsevier" 2016 Feb 26, doi:10.1016/j.compeleceng.2016.02.002.

2. **Namburu Swetha**, Panyam N, Yandra R, Sabat S," Fast Sequency-Ordered Complex Hadamard Transform based Parzen Window Entropy detection for Spectrum Sensing in Cognitive Radio Networks", IEEE communication letters, Volume PP, Issue 69, 8 April 2016.

3. Raveena Raghunath, N. Swetha, “A Review of pathloss models of spectrum sensing in cognitive radio networks”, International Journal of Engineering Research and Technology, Volume 4, Issue 4, April 2015.

4. N. Swetha, P. Narahari Sastry, Y. Rajasree Rao,: “Spectrum Sensing Analysis using PSD based Entropy Detection of DVB-T signal”, ARPN Journal of Engineering and Applied Sciences, Volume 9, No. 12, December 2014.

5. S. Sahithya, N.Swetha, “Real Time Vehicle Tracking System using GPS and GPRS”, International journal of Research in Computer and Communication Technology, Vol 3,

Issue 10, October 2014

Conference Proceedings:

International Proceedings

1. N. Swetha, Y. Rajasree Rao, P. Narahari Sastry: "Analysis of Spectrum Sensing based on Energy Detection method in Cognitive Radio Networks", Proc. International Conference on IT Convergence and Security, October 2014, pp 53-56.
2. Acoustic Emission Sensing Using Zigbee and Mobile Internet Devices(Mids) for Identifying Structural Damages ICMID 2010

G.V.Subba Reddy Assoc. Professor (ID-579)

Qualifications: B.Tech (ECE) -2002, M.Tech (VLSI) (JNTU-2007)

Experience: 13 yrs

Research Interest: VLSI, Signal Image & Video Processing.

Journal Publications/ Conference Proceedings:3

Journal publications:

International publications

1. G. V. Subba Reddy, V. Ayyem Pillai, "A Study of Sample Matrix Inversion Algorithm for Smart Antenna Applications"**,** Volume 9, Issue 15, April 2016 –IJST

2.V. Ayyem Pillai , K. Sri Chandara , G. V. Subba Reddy "An Analysis of sample Matrix Algorithm for Antenna Applications", Journal of Telecommunication Vol.8, issue 2, May 2016.

3. N.Sashikanth, G. V. Subba Reddy Power optimized implementation of 32-bit carry look ahead adder using 16m carbon nanotube technology. IJATA, ISSN 2348-2370 Vol. 7, Issue 14, Oct 2015.

4. Anjaneyulu B, G.V. Subba Reddy, "Detection of soft errors in 64bit Register Files using Self

Immerites Technique" IJATR vol.7, issue 15, Oct 2015.

5. G.Nagaraju, G.V. Subba Reddy " Design and Implementation of 128x128 Bit Multiplier by Ancient Mathemetics" September 2014, ISSN:2278- 0181, ESRSA publication.

6. D. Sudha, G.V. Subba Reddy "CMOS Digital based Technology for Static Power Reduction in Nanoscale circuits" on volume 2, issue 9, IJRIT-2014

Conference Proceeding:

International Conferences

1. G.V. Subba Reddy , CH Usha Kumari "Estimation of Path loss in Recived Signal order lognormal shadowing in 4G systems" IEEE Sponcerd 3rd International Conference on innovations in information, Embedded and communication Systems held on 17th, 18th March 2016.
2. V. Ayyem Pillai, K. Sri Chandara, G.V. Subba Reddy "Analysis of Sample matrix Algorithm for Smart Antena Applications"1st Internamtionl Conference on Recent Advancement in electronics. In NCRAE 2016. 22nd,23rd Jan 2016

National Conference:

1. G.V. Subba Reddy, V. Ayyem Pillai "Simulation and Analysis of sample Matrix Inversion Algorith for smart Antena applications" Natonal conference on Wireless communication Systems at MITS, Madanapalle, 27th,28th January 2016.

K. Jamal, Assoc. Professor (Id:656)

Qualifications: Pursuing Ph.D (GITAM University),
M.Tech (ECE) (Bharath University, 2005), B.Tech (ECE) (JNTU, 2003)

Experience: Teaching **: 8.3 yrs** Industry **: 3 yrs**

Research Interest: VLSI

Journal Publications/ Conference Proceedings: 8

Journal publications:

International publications

1. K.Jamal, Dr.P.Sri hari "Low Power TPC using BSLFSR" International Journal of Engineering and Technology (IJET), Vol 8 No 2 Apr-May 2016. Page no.759.(**Scopus Indexed**)
2. S.Nayeema , K.Jamal "Design and implementation of MAC Transmitter for the transmission of UDP packet using FSM and verilog coding techniques", IJERA-Vol. 3, Issue 1, January -February 2013

Conference Proceedings:

1. K.Jamal, Dr.P.Sri hari "Test Vector Generation using Genetic Algorithm for Fault Tolerant Systems" 2nd International Conference on Human Computer Interactions (ICHCI-2016)**,** Saveetha School of Engineering, Saveetha University, Chennai, TN.
2. K.Jamal, Dr.P.Sri hari "Analysis of Test Sequence Generators for Built-In Self-Test Implementation" 2nd International Conference on Advanced Computing and Communication Systems (ICACCS -2015, ISSN: 978-1-4799-6438-3/15/$31.00 ©2015 IEEE) Jan. 05 – 07, 2015, Sri Eshwar College of Engineering, Coimbatore.
3. K.Jamal, Dr. P Sri hari "Pseudo Random Test Pattern Generation with CA, LFSR & GCG for BIST Implementation and their Comparison"-3rd International Conference on Innovation in Electronics and Communication Engineering (ICIECE-2014) - 18-19 July, 2014, Guru Nanak Institutions, Hyderabad. Proceeding Page No. 53
4. K.Jamal, Dr. P Sri hari "Pseudo Random Number Generation Using LFSR and Low Power LFSR" - IEEE Sponsored 2nd International Conference on Power, Control and Embedded Systems (ICPCES-2014) , February 27 – 28, 2014, Anna University, Chennai. Page No.103.

National Proceedings:

1. K.Jamal, IBK Raju "Optimized Implementation of RNS Arithmetic Based on FPGAs"- National Conference on Signals and Image Processing (NCSIP-2012)
2. K.Jamal "Implementations of low power multiplier in Digital FIR filter" -National Conference on Computing Communication and Instrumentation (NCCCI'12) at GITAM University, Hyderabad

D.L. Chaitanya, Assoc. Professor (ID-461)

Qualifications: Pursuing Ph.D

B.Tech (ECE) (SKUniversity, 2005), M. Tech (ECE) (JNTUH University, 2010)

Experience: 10 yrs

Research Interest: VLSI

Journal Publications/ Conference Proceedings: 7

Journal publications:

International publications

1. B.Sowmya, Mrs. D.L.Chaitanya, "Upgraded MBIST with March-C algorithm testing towards RFID Memories", Proc. International Journal of Research in Electronics and Communications Engineering" 2(5), July-Aug. 2014.

National publications

1. D.L.Chaitanya**,** "A review of Different Spectrum Sensing Methods in Cognitive Radio Networks", PARIPEX-Indian Journal of Research, May 2015.

Conference Proceedings:

International Proceedings

1. D.L.Chaitanya, "Prformance Analysis of PUEA and SSDF attacks in cognitive Radio Networks" in IC3T 2016 Springer, at MIC college of Technology ,Vijayavada.
2. D.L.Chaitanya**,** "Robust Centralized spectrum sensing in Cognitive Radio Networks" for LAMSYS 2016 June 2016 conducted by SDSC, SHAR, ISRO.
3. "Defense against PUEA and SSDF attacks in Cognitive Radio Networks", 3rd International conference ICIIECS '16 in Karpagam college of Engineering, Coimbatore
4. D.L.Chaitanya, "A review of Different Spectrum Sensing Methods in Cognitive Radio Networks" "International Conference on Innovations in Electronics and Communication Engineering (ICIECE-2014)" organized by ECE Dept., at Gurunanak Institutions,Hyderabad
5. D.L.Chaitanya, "Acoustic Emission Sensing Using Zigbee and Mobile Internet Devices(Mids) for Identifying Structural Damages" ICMID 2010.

G. Surekha, Associate. Professor

Qualifications: Pursuing Ph.D

B.Tech (ECE) (JNTU, Kakinada, 2004), M.Tech (ECE) (JNTUH, 2009)

Experience: 13 yrs

Research Interest: VLSI &Communications

Journal Publications/ Conference Proceedings: 2

International Journals:

1. "Design of Low Power 7T SRAM Cell Using Low-Vth Transistor" G.Surekha, Dr. N. Balaji, Dr. Y. Padma Sai, R. Prashanth Kumar International Journal of Advanced Research in Electronics and Communication Engineering (IJARECE) Vol., 4, Issue- 9, September 2015, Page No's 2296-2302.

Conference Proceedings

1. "Stability Analysis of 7T-SRAM Cell" G. Surekha, Dr. N. Balaji, Dr. Y. Padma Sai 10th International Conference on Intelligent Systems and Control (ISCO 2016) ISCO Proceedings Vol.1, Page No's.125-128, January 7-8, 2016. Karpagam College of Engineering,Coimbatore.

K.Swaraja Asst. Professor **(ID-1241)**

Qualifications: Pursuing Ph.D

B.Tech (ECE) (JNTUA,2001), M.Tech (ECE) ((JNTUH,2006),

Experience: 15 yrs Teaching

Research Interest: Image and Video processing, Communications

Journal Publications/ Conference Proceedings: 9

Journal publications:

International publications

1. K.Swaraja, Y.Madhavee latha and V.S.K.Reddy, "The Imperceptible Video Watermarking based on region of motion vectors in P-Frames", International Journal of Advances in Computational Sciences and Technology. ISSN 0973-6107 Volume 3, Number 3 (2010) pp. 335-348.

2. K.Swaraja, Y.Madhaveelatha, V.S.K.Reddy, “A secure method of optimized low complexity video watermarking", ARPN Journal of Engineering and Applied Sciences, VOL. 10, NO. 4, MARCH 2015, ISSN 1819-6608, PP.1822-1827.

3. K.Swaraja, Y.Madhaveelatha, V.S.K.Reddy, “A Hybrid Robust DCI-Schur Based vido Watermarking Scheme”, International Journal of Electrical, Electronics and computer System IJEECS, ISSN 2347-2820., Vol. 3, PP 8-13, 2015.

4. K.Swaraja, Y.Madhaveelatha, V.S.K.Reddy, “Robust Video Watermarking by amalgamation of Image transforms and optimized fixfly Algorith”, International Journal of Applied Engineering Research(IJAER) 2016 ISSN 0973-4562, vol.11,PP.215-224.

Conference Proceedings:

National Proceedings

1. 1. K. Swaraja, Y. Madhavee latha and V.S.K.Reddy “Different Video Watermarking Techniques and Comparative analysis: A Survey”, in Proc. Nat. Conf. Signal Processing & Communications, SPCOM, 2009, pp. ,Dec 4-5, 2009, Malla Reddy College of Engineering and Technology, Hyderabad.
2. K. Swaraja, Y. Madhavee latha and V.S.K.Reddy “Video Watermarking in motion vector using Temporal Synchronization” , in Proc. Nat. Conf. Signal Processing & Communications, SPCOM, Dec 23-24, 2010, pp.185-190, Malla Reddy College of Engineering and Technology, Hyderabad.
3. K. Swaraja, Y. Madhavee latha and V.S.K.Reddy “Video Watermarking in motion vector based on visual masking”, in Proc. Nat. Conf. Signal Processing & Communication system design, Feb 3-4, 2014, pp., Malla Reddy Engineering College for Women, Hyderabad.

International Proceedings:

1. K.Swaraja, Y.Madhavee latha, V.S.K Reddy,” video watermarking based on motion vectors of H.264”, India conference (INDICON), 2011, Annual IEEE Conference on Engineering Sustainable Solutions, Dec 16-18, 2011 on page(s), 1-4, Hyderabad, India, ISBN: 978-1-4577-1110-7.

2. K.Swaraja, Y.Madhaveelatha, V.S.K.Reddy, "A Prestine Digital Video Watermarking in H.264 Compressed domain", IEEE International conference on computational intelligence and computing research, Dec 18-20, 2014, ICCIC1400521.

M.O.V. Pavan Kumar, Assistant Professor (ID-605)

Qualifications: M.Sc. (Electronics) (Acharya Nagarjuna University, 2003),
M.Tech (ECE) (Satyabhama University, 2007)

Experience: 9 yrs

Research Interest: VLSI, Digital System Design,Digital IC Design

Journal Publications/ Conference Proceedings: 5

Journal publications:

International publications

1. B.Navya Teja, M.O.V.Pavan Kumar, "Architecture and Implementation of OFDM Transmitter and Receiver", IJSET, Vol. 3(9), Pg 2504-2507, Sep. 2014.

Conference Proceedings:

International Proceedings

1. Pavan Kumar, M.O.V.; Kiran, M., "Design of optimal fast adder," Advanced Computing and Communication Systems (ICACCS), 2013 International Conference on , vol., no., pp.1,4, 19-21 Dec. 2013,Publisher:IEEE doi: 10.1109/ICACCS.2013.6938692

K.N.V. Khasim, Assistant Professor (ID-646)

Qualifications: B.Sc. (M.P.E.) (Nagarjuna University, 2005), M.Sc. (Electronics) (Andhra University, 2007), M.Tech(Communication Systems),(Andhra University,2012)

Experience: 6 yrs

Research Interest: Communication Systems, Embedded Systems

Journal Publications/ Conference Proceedings: 8

Journal publications:

International publications

1. "Automatic Irrigation system using a wireless sensor network and GPRS module", IJESRT, ISSN:2277-9655 (Impact factor:3.78), October 2015.
2. “Design of The CAN Bus Booster Pack and The Implementation of the CAN Protocol”, International Journal of Research in Computer and Communication Technology, Vol 3, Issue 10, October – 2014.
3. Implementation of a Turbo Encoder and Turbo Decoder on DSP Processor-TMS320C6713(IJERD, Volume 2, Issue 5 July 2012)
4. Convolutional Code of Rate 2/3 to Approach the Theoretical Limit Imposed by Shannon’s Channel Capacity(IJCST Vol. 2, SP 1, December 2011)

Conference Proceedings:

International Proceedings

1. Enhanced Image Transmission using Turbo Codes And 16QAM with Iterative De-
2. Noising Algorithm(Joint International Conference on Swarm, Evolutionary & Memetic Computing (SEMCCO) and Fuzzy & Neural Computing Conference (FANCCO) - 2011)
3. Impulse Noise Detection and Filtering Based on Adaptive Weighted Median Filter(ACNCN-2012)
4. Pavement image Analysis Using Radon Transform(ACNCN-2012)

K. Nagaja, Assistant Professor (Id: 871)

Qualifications: M .Tech (ESD) (Bharat University, 2011) , B.E (ECE) (Periyar University, Tamil Nadu, 2003)

Experience: 11 yrs

Research Interest: Embedded Systems, Digital Electronics

Journal Publications/ Conference Proceedings: 1

Journal publications:

International publications

1. K. Nagaja, “QR Images: Optimized Image Embedding in QR Codes”, IJMETMR, ISSN : 2348-4845, 2015

N. Madhusudhana Rao, Assistant Professor (Id: 556)

Qualifications: M. Tech(ECE) (JNTU CEH, 2012), B.E. (ECE) (Anna University, 2006)

Experience: Teaching **: 9.6 yrs** Industry **: 1 yr**

Research Interest: Communication Systems, Electronics

Journal Publications/ Conference Proceedings: 2

Journal publications:

International publications

1. N. Madhusudhana Rao, " Area – Delay Efficient Binary Address in QCA", IJMETMR, Volume NO: 1 (2014), Issue No: 10 (October) ISSN :2348-4845
2. N. Madhusudhana Rao, " Design and Development of Driver Behavioral Monitoring System", IJSETR, Volume no: 4, Issue No: 45, ISSN :2319-8885, November - 2015

V. HimaBindu, Assistant Professor

Qualifications: Pursuing Ph.D (GITAM University), M.E (TC) (RMIT University, Australia, 2005), B. Tech (ECE) (JNTU, 2002)

Experience: Teaching **: 9.8 yrs** Industry **: 2 yrs**

Research Interest: Wireless Communication

Journal Publications/ Conference Proceedings: 5

Journal publications:

International publications

1. VALIVETI, HIMA BINDU, "Automatic Measuring And Recompense System For Monitoring Health Management Process For Automobiles." International Journal of Science Engineering and Advanced technology, Vol 2, No 8 (2014): August, ISSN: 2321-6905
2. HimaBindu Valiveti, "EHSD: An Exemplary Handover Scheme during D2D Communication based on Decentralization of SDN" in Wireless Personal Coomunications", Springer, July, 2016.
3. Valiveti. Hima Bindu, Vol 2, No 8 (2014): August - Articles Automatic Measuring And Recompense System For Monitoring Health Management Process For Automobiles, Wireless Personal Communications DOI 10.1007/s11277-016-3490-7

Conference Proceedings:

1. HimaBindu. Valiveti, titled "A Hierarchy Knapsack approach for Network Selection in HetNets", 3rd International conference ICIIECS '16 in Karpagam college of Engineering, Coimbatore.
2. HimaBindu Valiveti, "D2D Handoff Mechanism based on SDN principles" for LAMSYS 2016 June 2016 conducted by SDSC, SHAR, ISRO.

A. UshaSree, Assistant Professor

Qualifications: M.Tech(Embedded Systems) (JNTUH,2008), B. E(ECE) (Anna University,2005)

Experience: 9 yrs

Research Interest: Communications, Embedded Systems.

Journal Publications/ Conference Proceedings: 1

Journal Publications:

International Publications:

1. A. Usha Sree, "Embedded Web Server Based Laboratory Monitoring & Controlling System", IJSETR, ISSN: 2319 – 8885, vol:40, October – 2015, Pages: 8727 - 8730

Ch. PratyushaChowdari, Assistant Professor (Id: 937)

Qualifications: Pursuing Ph.D (GITAM University), M.Tech (VLSI Design) (Andhra University, 2011), B. E (ECE) (Andhra University, 2009)

Experience: 6 yrs

Research Interest: VLSI & DSP

Journal Publications/ Conference Proceedings: 1

Conference Proceedings:

1. Ch. Pratyusha Chowdari, "Design of Low Power Adaptive Filter using Vedic Multiplier", "INDIA 2016"

Y.Priyanka, **Assistant Professor** (ID-1100)

Qualifications: B.Tech (ECE) (AU,2007), M.Tech(ECE) (JNTUH,2012)

Experience: Teaching: 5 yrs Industrial: 2 yrs

Research Interest: Embedded Systems, Networking, Communications

Journal Publications/ Conference Proceedings: 1.

Conference Proceedings:

1. Priyanka Yadlapalli, "Performance enhancement of CS – SCHT based MIMO using Alamouti Scheme", ICIIECS'16, IEEE Conference (Coimbatore)

A. Ambika, **Assistant Professor** (ID-1103)

Qualifications: B.E (ECE) (AU,2008), M.Tech(ECE) (JNTUK,2012)

Experience: 6 yrs

Research Interest: VLSI, Communications, Biomedical

Journal Publications/ Conference Proceedings: 2.

Journal Publications:

International Publications:

1.Matlab simulation for diversity and performance enhancement of OSTBC-CDMA system using channel coding techniques over multichannel.-Recent Science-2012

Conference Proceedings:

1. Ambika Annavarapu, "Performance enhancement of CS – SCHT based MIMO using Alamouti Scheme", ICIIECS'16, IEEE Conference (Coimbatore)

B. Shilpa, Assistant Professor (ID:1097)

Qualification:B.Tech(2005), M.Tech (2010)

Experience: 9 years

Research Interest: RF

Journal Publications/ Conference Proceedings: 1

Journal publications:

International publications

1. B.Navya, V.JyothiSri, B.Shilpa "Simulation of 6-DOF", SSRG International Journal of Electronics and Communication Engineering (SSRG - IJECE), V2(8),29-34 August 2015. ISSN:2348 - 8549.

V. Jyothi Sri, Assistant Professor (ID:1224)

Qualification:B.Tech(2009), M.Tech (2011)

Experience: 3 years

Research Interest: Communications, Image Processing

Journal Publications/ Conference Proceedings: 1

Journal publications:

International publications

1. B.Navya, V.JyothiSri, B.Shilpa "Simulation of 6-DOF", SSRG International Journal of Electronics and Communication Engineering (SSRG - IJECE), V2(8),29-34 August 2015. ISSN:2348 - 8549.

B. Navya, Assistant Professor, (Id:1086)

Qualifications: M.Tech(ECE) (JNTUH,2011), B.Tech (ECE) (JNTUH,2009)

Experience: 5 .6 yrs

/Research Interest: Communication

Journal Publications/ Conference Proceedings: 1

Journal publications:

International publications

1. B.Navya, V.JyothiSri, B.Shilpa "Simulation of 6-DOF", SSRG International Journal of Electronics and Communication Engineering (SSRG - IJECE), V2(8),29-34 August 2015. ISSN:2348 - 8549.

Swathi Karumuri, Assistant Professor (ID:1285)

Qualification: B.Tech(2008), M.Tech (2014)

Experience: 4 years

Research Interest: VLSI

Journal Publications/ Conference Proceedings: 1

Conference Proceedings:

1. Swathi Karumuri, "FPGA Implementation of Fault Tolerant Embedded RAM using BISR Technique", International Conference On Current Innovations In Engineering And Technology International Association Of Engineering & Technology For Skill Development,ISBN: 378 - 26 - 138420 – 5, Sept. 2014

M.Navya, Assistant Professor (ID:1298)

Qualification:B.Tech(2008), M.Tech (2014)

Experience: 4 years

Research Interest: Embedded Systems

JournalPublications/Conference Proceedings: 1

Journal publications:

International publications

1. M.Navya "Android Based Children Tracking System Using Voice Recognition", IJCSMC, Vol. 4, Issue. 1, January 2015, ISSN 2320–088X, pg.229 – 235.

G.Pradeep Reddy, Asst.Professor (ID-1332)

Qualification: B.Tech (Electronics & Communication Engineering) 2007, JNTUH, Telangana, India, M.Tech (Communication Engineering) 2010, VIT University, Vellore, Tamilnadu.

Experience:8(Teaching),1(Research)

Research Interest: Ultra Wide Band Communications

JournalPublications/Conference Proceedings: 4

Journal publications:

International publications

1. G.Nagaraju, Pradeep Reddy.G titled "Anatomization of Medical Image Segmentation with Novel Proposal" International Journal of Engineering and Computer Science, ISSN: 2319-7242 Volume 4 Issue 6, June 2015, Page No. 12766-12773.
2. O. Ravi Kumar, G. Pradeep Reddy, Gerardine Immaculate Mary titled "Source Localization Techniques for UWB Context Aware Applications"CIIT international journals,ISSN: 0974 – 9640, Vol 2 No 9, 2010, Page No.292-296.

Conferences Proceedings:

International Proceedings

1. B.Bharath, G.Pradeep reddy,et al..,"DIP Coated Thick Films of SnO2 and It's Ethanol Sensing Properties" was presented in the IEEE international conference on Applied Physics Mathematics (IEEE ICAPM 2011)(978-1-4244-9817-8)
2. G. Pradeep Reddy, Gerardine Immaculate Mary et al..,"UWB Indoor Channel profile identification with orthogonal hermite pulses" was presented in 3rd IEEE International Conference on Computer Science and Information Technology, 2010.(978-1-4244-5539-3)

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Qualification: B.Tech (2012), M.Tech (2014)

Experience: 1.4 years

Research Interest: VLSI

Journal Publications/Conference Proceedings:1

Journal publications:

International publications

1. "Efficient technique of data hiding in encrypted images", International Journal of Science, Engineering and Technology Research, Volume 3, Issue 9, September 2014,2508-2510

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Qualification:B.E (electronics), passed out 2011, RTMNU, Nagpur

M.Tech (VLSI),2014, JNTUH,

Experience: 1.4 years

Research Interest: VLSI

JournalPublications/Conference Proceedings:1

Journal publications:

International publications

1. "An Optimal Low Power Adaptive Filter Design for Noise Reduction" in International Journal of Science, Engineering and Technology Research, Vol.3.Issue...9. .September 2014, pp.2405.-.2410.

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Qualification:B.Tech (2012), M.Tech (2014), JNTUH

Experience: 1.4 years

Research Interest:VLSI

JournalPublications/Conference Proceedings:1

Journal publications:

International publications

1. Design and Implementation of 128 x 128 Bit multiplier by Ancient Mathematics in IJERT, Volume. 3, Issue. 09, September – 2014,pp.1363-1366

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Qualification: B.Tech (2009), M.Tech (2014)

Experience: 1.4 years

Research Interest:SDR(Software defined Radio) and 5G cellular communication

Journal Publications/Conference Proceedings:1

Journal publications:

International publications

1. "A Novel Power Reduction Design using Approximate Adders for Inexact Computing"in International Journal of Science, Engineering and TechnologyResearch,Volume-3.Issue-10,October-2014, pp.2565.-.2569

K.Sarvani, Assistant Professor (Id:1321)

Qualification:B.Tech(2010), M.Tech(2014), JNTUH

Experience: 1.4 years

Research Interest: Biomedical imaging and sensing, bio medical area, sensor networks

JournalPublications/Conference Proceedings:1

Journal publications:

International publications

1. Fault coverage circuit with Bist architecture for efficient hardware utilization for testing applications, International journal for scientific research and development,Vol.3,Issue-5,2015

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Qualification: B.Tech-JNTUK(2012),M.Tech (2014), Gitam university

Experience: 1.4 years

Research Interest: RF and Microwave Engineering

Journal Publications/Conference Proceedings:1

Journal publications:

International publications

1. Analysis of gap impedance in double gap cavity for klystron at s-band, International Journal of Multi Disciplinary Sciences and Research Volume-1;Issue 6 ISSN:2321-4872 January 2014