

Curriculum Vitae

Prof. K. Ashoka Reddy

Date of birth	10.06.1969
Designation	Professor, Dept of ECE
Work Place	Kakatiya Institute of Technology & Science (KITS) WARANGAL - 506015 <i>Mobile: +91-9959204320</i> <i>email: kareddy.iitm@gmail.com</i>

EDUCATION				
Degree	Details (specialization)	Institute/University	Month , Year Registered	Month , Year completed
B.Tech	Electronics & Instrumentation Engineering	KU, Warangal	June 1988	July 1992
	<i>Project Work: Linearization of Thermocouple Characteristics</i> <i>Supervisor: Prof. P. Venugopal Rao, Dept of E&I Engg</i>			
M.Tech	ECE (Instrumentation & Control)	JNTU Hyderabad	July 1992	July 1994
	<i>Project Work at NERTU: Automatic classification of MPSK & MFSK signals</i> <i>Supervisors: Dr. M.V.Krishna Rao, Scientist, NERTU, OU, Hyderabad</i> Prof. P.G.Krishna Mohan, Dept of ECE, JNTU Kakinada			
Ph.D	Signal Processing	IIT Madras	June 2004	July 2008
	<i>Thesis: Novel Methods for Performance Enhancement of Pulse Oximeters</i> <i>Supervisor: Prof. V. Jagadeesh Kumar, Dept. of Electrical Engineering</i>			

WORK EXPERIENCE: 23 Years				
Details	Duration	From	To	Organization
<i>Professor (Regular)</i>	9 Years & 6 Months	21.04.2008	Till date (Dept of ECE w.e.f 23.07.2015)	KITSW
<i>Associate Professor (Regular)</i>	7 Years & 8 Months	30.08.2000	20.04.2008	KITSW
<i>Assistant professor (Regular)</i>	5Years	28.08.1995	29.08.2000	KITSW
<i>Lecturer (temporary)</i>	1Year	19.08.1994	27.08.1995	KITSW

ACADEMIC ADMINISTRATIVE POSITIONS HELD				
Details	Duration	From	To	Organization
<i>Principal</i>		August 2018	Till date	KITSW
<i>Principal</i>	4 Years & 6 Months	16.02.2011	22.07.2015	KITSW
<i>Principal (on Deputation to Kakatiya University)</i>	1 Year & 5 months	02.10.2009	15.02.2011	KU College of Engg & Technology Kakatiya University, Warangal
<i>Head, Dept. of E&I Engg</i>	1 Year & 6 Months	21.04. 2008	01.10.2009	KITSW

RESEARCH INTERESTS:	
<i>Biomedical signal processing, Virtual Instrumentation</i>	
DETAILS OF PUBLICATIONS	
Publications in Refereed Journals	
S.No	Details
1	K. A. Reddy, B. George and V. J. Kumar, "Use of Fourier series analysis for motion artifact reduction and data compression of photoplethysmographic signals", <i>IEEE Trans. Instrum. Meas.</i>, vol. 58, no.5, pp.1706-1711, May 2009. (DOI: 10.1109/TIM.2008.2009136) (SCI)
2	K. A. Reddy, B. George, N.M. Mohan and V. J. Kumar, "A novel calibration-free method of measurement of oxygen saturation in arterial blood", <i>IEEE Trans. Instrum. Meas.</i>, vol. 58, no.5, pp.1699-1705, May 2009.

	(DOI: 10.1109/TIM.2008.2012934) (SCI)
3	M. R. Ram, K. V. Madhav, E. H. Krishna, K. N. Reddy and K. A. Reddy , "A novel approach for motion artifacts reduction in PPG signals based on AS-LMS adaptive filter," <i>IEEE Trans. Instrum. Meas.</i> , vol. 61, no.5, pp. 1445-1457, May 2012. (DOI: 10.1109/TIM.2011.2175832) (SCI)
4	K. V. Madhav, M. R. Ram, E. H. Krishna, K. N. Reddy and K. A. Reddy , "Robust extraction of respiratory activity from PPG Signals using modified MSPCA," <i>IEEE Trans. Instrum. Meas.</i> , vol. 62, no.5, pp. 1094-1106, May 2013. (DOI: 10.1109/TIM.2012.2232393) (SCI)
5	M. R. Ram, K. V. Madhav, E. H. Krishna, K. N. Reddy, K. Sivani and K. A. Reddy , "ICA based Improved DTCWT technique for MA reduction in PPG signals with restored respiratory information," <i>IEEE Trans. Instrum. Meas.</i> , vol. 62, no.10, pp. 2639-2651, October 2013. (DOI: 10.1109/TIM.2013.2259114) (SCI)
6	E. H. Krishna, M. R. Ram, K. V. Madhav and K. A. Reddy , "VHDL implementation of Hirschman Optimal Transform (HOT) based LMS adaptive filter for acoustic echo cancellation," <i>Majlesi J. Elect. Eng., MJEE, Special issue in Cogn. Intell. Sig. Process.</i> vol. 1, no.1, pp.54-60, March 2012. (Scopus)
7	K. G. Kishan Rao, K. Narendar, A. S. M. Rao, N. G. Krishna, and K. A. Reddy , "Study on temperature variation of densities of Antimony and Bismuth using gamma ray attenuation technique," <i>Global Journal of Science Frontier Research Physics and Space Science</i> , vol. 12, no.4, pp. 35-38, June 2012.
8	K. Sharmila, E. H. Krishna and K. A. Reddy , "Rule based identification of cardiac arrhythmias from enhanced ECG signals using multi-scale PCA," <i>Signal Processing: An International Journal (SPIJ)</i> , ISSN: 1985-2339, vol. 7, no.2, pp. 117-130, Sept. 2013. (UGC)
9	K. G. Kishan Rao, K. Narendar, A. S. M. Rao, N. G. Krishna, and K. A. Reddy , "Thermal properties of Sb, Bi and Sn in solid phase by gamma ray attenuation technique", <i>Paripex - Indian Journal Of Research</i> , vol. 2, no.2, February 2013
10	V. Sharmila, K. A. Reddy , "Modeling of ECG Signal with Nonlinear Teager Energy Operator", <i>International Journal of computer Science and Network Security(IJCSNS)</i> , ISSN: 1738-7906, vol. 14, no.1, pp.34-41, January 2014. (UGC)
11	M. Raju and K.A. Reddy , "M-PSK based OFDM simulation in wireless communication systems", in <i>International Journal of Research Studies in Science, Engineering and Technology (IJRSSET)</i> , Volume-1, Issue-2, pp.60-66, May, 2014.
12	M. Raju, O. Ravinder and K. A. Reddy , "Flat Rayleigh Fading Channel Estimation for Adaptive OFDM Downlink By Using GCG Class of Adaption Laws," <i>International Journal of Application or Innovation in Engineering & Management</i> , vol. 3,

	no. 6, pp. 186-191, June 2014. (ICI, UGC)
13	E. H. Krishna, K. Sivani and K. A. Reddy , "OFDM transceiver using Hirschman optimal transform," in Elsevier Science & Technology , pp. 265-270, 2014. (ISBN: 9789351072287) (Scopus)
14	M. Raju, O. Ravinder and K. A. Reddy , "A novel methods of ICI self cancellation scheme in OFDM systems," <i>International Journal of Research and Applications</i> , vol. 1, no. 3, pp. 96-100, September 2014.
15	V. Sharmila, K. A. Reddy , "Identification of PVCs based on Peak detection with Teager Energy Operator" <i>International Journal of Computer Applications (IJCA)</i> , ISSN: 0975-8887, vol. 103, no.16, October 2014. (UGC)
16	V. Sharmila, K. A. Reddy , "Identification of Premature Ventricular Cycles of Electrocardiogram using Discrete Cosine Transform-Teager Energy Operator Model", <i>Journal of Medical Engineering, Hindawi Publishing Corporation</i> pp. 1-9, January 2015. Article ID 438569, 9 pages(http://dx.doi.org/10.1155/2015/438569)
17	T.K. Sai and K. A. Reddy , "New rules generation from measurement data in a power station", <i>IEEE Trans. on Power Delivery</i> , vol. 30, no.1, pp. 167-173, February 2015. (DOI: 10.1109/TPWRD.2014.2355595) (SCI)
18	T.K Sai and KA Reddy , "Neural Network Applications in a Power Station", <i>International Journal of Soft Computing and Engineering (IJSCE)</i> , ISSN: 2231-2307, vol.4, issue-6, January 2015.
19	T.K Sai and KA Reddy , "Fuzzy Applications in a Power Station", <i>International Journal of Soft Computing (IJSC)</i> , ISSN: 2229-7103, vol.6, issue-2, May 2015.
20	K. A .Reddy , "Power Spectral Analysis on ECG Signals for Identification of Sudden Cardiac Death, " <i>Journal of Advanced Research in Dynamical and Control Systems</i> , ISSN: 1943-023X, vol. 8, issue 12, pp.18-27, 2016 (Scopus)
21	M. Raju, E. H. Krishna and K. A. Reddy , "A method on step variable LMS algorithm for OFDM channel estimation under fast fading conditions", <i>International Journal of Engineering Science and Technology</i> , ISSN: 0975-5462, vol.9, issue-1, pp.28-34, January, 2017. (ICI, UGC)
22	M. Raju, E. H. Krishna and K. A. Reddy , "On the use of multi-scale singular value decomposition for OFDM channel estimation", <i>International Journal of Engineering Science and Technology</i> , ISSN: 0975-5462, vol.9, issue-1, pp.47-53, January, 2017. (ICI, UGC)
23	G. R. Naik and K. A. Reddy , "ECG classification and abnormality detection using multimodal decision learning algorithm", <i>International Journal of Engineering Science and Technology</i> , ISSN: 0975-5462 vol.9, issue-1, pp. 35-46, January, 2017. (ICI, UGC)

24	K. A .Reddy , "Fuzzy Gain Scheduler based Coordinated Control of Boiler and Turbine in a Power Station," <i>Journal of Advanced Research in Dynamical and Control Systems</i> , ISSN: 1943-023X, vol. 9, issue 1, pp.117-127, 2017 (Scopus)
25	T. K Sai, P. S. Kumar and K. A. Reddy , "Expert alarm system for prediction of chemistry faults in a power Station", <i>International Journal of Artificial Intelligence</i> , ISSN 0974-0635, vol.15, no.1, pp.180-196, March, 2017. (Scopus, The IET, ICI)
26	T. K. Sai and K. A. Reddy , "Application of acoustic techniques in thermal power plants", <i>Sensors & Transducers</i> , ISSN: 2306-8515, e-ISSN 1726-5479, vol.210, issue 3, pp.42-49, March, 2017. (Scopus, ICI)
27	G. R. Naik and K. A. Reddy , "ECG classification using multimodal decision learning algorithm", <i>International Journal of Engineering Science and Technology</i> , ISSN: 0975-5462 vol.9, issue-4, pp.271-77 , April, 2017. (ICI, UGC)
28	K. A. Reddy ," Estimation of oxygen saturation of arterial blood by pulse oximeters and challenges" , <i>Journal of Advanced Research in Dynamical and Control Systems</i> , ISSN: 1943-023X, vol. 9, issue 6, pp.175-183, 2017 (Scopus)
29	K. A. Reddy , "A method for estimation of oxygen saturation for pulse oximeter", <i>Journal of Engineering Technology</i> , ISSN:0747-9964, vol. 6, issue 2, pp.618-627, July, 2017, (SCIE, Scopus)
30	E. H. Krishna, K. Sivani and K. A. Reddy , " EMD based adaptive filtering for OFDM channel estimation ", <i>International Journal Engineering Transactions A: Basics</i> , p-ISSN:1728-144X, e-ISSN:1735-9244, vol. 30, issue 10, pp.1517-1525, 2017 (Scopus)
31	Ch. Navitha, K. Sivani and K. A. Reddy , " Adaptive wavelet transform based rake receiver for ultra-wideband systems," <i>Advances in Modelling and Analysis B</i> , vol.60, No.2, pp. 355 - 369, ISSN: 1240-4543 (Scopus)
32	K. A. Reddy , "A New Method based on sliding EMD for motion artifacts reduction in PPG signals for pulse oximeter application," <i>Journal of Advanced Research in Dynamical and Control Systems</i> , ISSN: 1943-023X, vol. 9, issue 8, pp.172-172, 2017 (Scopus)
33	K. A. Reddy , "A new method based on complex EMD for motion artifacts reduction in PPG Signals for pulse oximeter application", <i>Journal of Engineering Technology</i> , ISSN:0747-9964, vol. 6, Spl. Issue on Technology Application and Innovation, pp.187-200, October, 2017, (SCIE, Scopus)
34	E. H. Krishna, K. Sivani and K. A. Reddy , "On the use of EMD based adaptive filtering for OFDM channel estimation", <i>Elsevier Int. J. Electron. Commun. (AEÜ)</i> , vol.83, pp. 492-500, Jan. 2018 (SCI, Scopus)

35	Ch. Navitha, K. Sivani and K. A. Reddy , "Performance evaluation of adaptive continuous wavelet transform based rake receiver for UWB systems," <i>International Journal of Electrical and Computer Engineering (IJECE)</i> , vol. 8, no. 5, October 2018, pp. 3444 - 3452, ISSN: 2088-8708 (Scopus).
36	E. H. Krishna, K. Sivani and K. A. Reddy , "New channel estimation method using singular spectrum analysis for OFDM Systems," <i>Springer Wireless Personal Commun.</i> , vol. 101, no. 4, pp. 2193-2207, August 2018. (SCI) ISSN: 0929-6212; e-ISSN: 1572-834X)
37	M. R. Ram, K. Sivani and K. A. Reddy, "MS-EMD based Signal Processing Method for Reduction of Motion Artifacts from PPG Signals," <i>International Journal of Applied Engineering Research</i> , vol. 13, no.21, pp. 14969-14973, 2018. (Scopus)

Publications in Refereed Conference Proceedings

S. No	Details
1	K. A. Reddy , J. R. Bai, B. George, N. M. Mohan and V. J. Kumar, "Virtual instrument for the measurement of haemo-dynamic parameters using photoplethysmograph," in <i>Proc. 23rd IEEE International Instrumentation and Measurement Technology Conf., IMTC-2006</i> , Sorrento, Italy, 24-27 April, 2006, pp. 1167-1171. (DOI: 10.1109/IMTC.2006.328443)
2	K. A. Reddy and V. J. Kumar, "Motion artifact reduction in photoplethysmographic signals using singular value decomposition," in <i>Proc. 24th IEEE International Instrumentation and Measurement Technology Conf., IMTC-2007</i> , Warsaw, Poland, 1-3 May, 2007, pp. 1-5. (DOI: 10.1109/IMTC.2007.379467)
3	K. A. Reddy , B. George and V.J. Kumar, "Motion artifact reduction and data compression of photoplethysmographic signals utilizing cycle-by-cycle fourier series analysis", in <i>Proc. 25th IEEE International Instrumentation and Measurement Technology Conf., I²MTC-2008</i> , Victoria, Canada, 12-15 May, 2008, pp. 176-179. (DOI: 10.1109/IMTC.2008.4547026)
4	K. A. Reddy , B. George, N.M. Mohan and V.J.Kumar, "A Novel method of measurement of oxygen saturation in arterial blood", in <i>Proc. 25rd IEEE International Instrumentation and Measurement Technology Conf., I²MTC-2008</i> , Victoria, Canada, 12-15 May, 2008, pp. 1627-1630. (DOI:10.1109/IMTC.2008.4547304)
5	K. A. Reddy , and V. J. Kumar, "A Novel model based method of measurement of oxygen saturation in arterial blood," in <i>Proc. of 28th IEEE International</i>

	<i>Instrumentation and Measurement Technology Conf., I²MTC-2011, Hangzhou, China, 10-12 May, 2011 (DOI: 10.1109/ IMTC.2011.594406)</i>
6	M. R. Ram, K. V. Madhav, E. H. Krishna and K. A. Reddy , "Motion Artifact Reduction in Photoplethysmographic Signals Using Improved ICA," in <i>Proc. of International Conference on Aerospace Electronics, Communications & Instrumentation, ASECI-2010, 6-7, Jan 2010, Vijayawada, India, pp. 194-197.</i>
7	M. R. Ram, K. V. Madhav, E. H. Krishna and K. A. Reddy , "Evaluation of Wavelets for Reduction of Motion Artifacts in Photoplethysmographic signals," in <i>Proc. of 10th IEEE International Conference on Information sciences, Signal Processing and their Applications, Systems and Applications ISSPA-2010, 11-13, May 2010, Kaulalumpur, Malaysia, pp. 460-463. (DOI : 10.1109/ISSPA.2010.5605443)</i>
8	M. R. Ram, K. V. Madhav, E. H. Krishna and K. A. Reddy , "On the performance of wavelets in reducing motion artifact from photoplethysmographic signals," in <i>Proc. of 4th IEEE International Conference on Bioinformatics and Biomedical Engineering iCBBE-2010, 18-20, June 2010, Chengdu, China, pp. 475-480. (DOI : 10.1109/ICBBE.2010.55516291)</i>
9	M. R. Ram, K. V. Madhav, E. H. Krishna, K. N. Reddy and K. A. Reddy , "Adaptive reduction of motion artifacts from PPG signals using a synthetic noise reference signal," in <i>Proc. of IEEE EMBS International Conference on Biomedical Engineering & Sciences IECBES 2010, Nov 30 to Dec 02 2010, Kaulalumpur, Malaysia, pp. 315-319. (DOI : 10.1109/IECBES.2010.5742252)</i>
10	M. R. Ram, K. V. Madhav, E. H. Krishna, K. N. Reddy and K. A. Reddy , "On the Performance of Time Varying Step-size Least Mean Squares (TVS-LMS) Adaptive Filter for MA Reduction from PPG Signals," in <i>Proc. of IEEE International Conference on Communications & Signal Processing ICCSP 2011, 10-12 Feb, 2011, Calicut, India, pp.431-435. (DOI : 10.1109/ICCSP.2011.5739353)</i>
11	M. R. Ram, K. V. Madhav, E. H. Krishna, K. N. Reddy and K. A. Reddy , "On the performance of AS-LMS based Adaptive Filter for Reduction of Motion Artifacts from PPG Signals," in <i>Proc. of 28th IEEE International Instrumentation and Measurement Technology Conf., I²MTC-2011, Hangzhou, China, 10-12 May, 2011, pp. 1536-1539. (DOI: 10.1109/ IMTC.2011.5944259)</i>
12	M. R. Ram, K. V. Madhav, E. H. Krishna, K. N. Reddy and K. A. Reddy , "Computation of SpO ₂ using non-parametric spectral estimation methods from wavelet based motion artifact reduced PPG signals," in <i>Proc. of IEEE International Conference on Signal processing, Communication Computing and network technologies, ICSCCN-2011, Kumar coil, India, 21-22 July, 2011, pp. 776-780. (DOI: 10.1109/ ICSCCN.2011.6024656)</i>
13	M. R. Ram, K. V. Madhav, E. H. Krishna, K. N. Reddy and K. A. Reddy , "Use of

	Multi-scale Principal Component Analysis for Motion Artifact Reduction of PPG Signals," in <i>Proc. of IEEE Recent Advances in Intelligent Computational Systems, RAICS 2011</i> , Trivandrum, India, 22-24 Sept, 2011, pp. 425-430. (DOI: 10.1109/RAICS.2011.6069348)
14	M. R. Ram, K. V. Madhav, E. H. Krishna, K. N. Reddy and K. A. Reddy , "Computation of SpO ₂ using non-parametric spectral estimation methods from wavelet based motion artifact reduced PPG signals," in <i>Proc. of IEEE Recent Advances in Intelligent Computational Systems, RAICS 2011</i> , Trivandrum, India, 22-24 Sept, 2011, pp. 431-436. (DOI: 10.1109/ RAICS.2011.6069349)
15	M. R. Ram, K. V. Madhav, E. H. Krishna, K. N. Reddy K. Sivani and K. A. Reddy , "HHT based signal decomposition for reduction of motion artifacts in Photoplethysmographic signals," in <i>Proc. of 29th IEEE International Instrumentation and Measurement Technology Conf., I2MTC-2012</i> , Graz, Austria, 13-16 May, 2012, pp. 1730-1734. (DOI: 10.1109/ IMTC.2012.6229404)
16	M. R. Ram, K. V. Madhav, E. H. Krishna, K. N. Reddy K. Sivani and K. A. Reddy , "Dual-Tree Complex Wavelet Transform for Motion Artifact Reduction of PPG Signals," in <i>Proc. of 7th IEEE International Symposium on Medical Measurements and Applications, MeMeA2012</i> , Budapest, Hungary, 18-19 May, 2012. (DOI: 10.1109/ MeMeA.2012.6226643)
17	M. R. Ram, K. V. Madhav, E. H. Krishna, K. N. Reddy K. Sivani and K. A. Reddy , "Ensemble EMD for Reduction of Motion Artifacts from Pulse oximeter Signals," in <i>Proc. International Conference on Communication, VLSI and Signal Processing, ICCVSP - 2013</i> , Tumkur, Karnataka, India, 20-21 Mar, 2013.
18	E. H. Krishna, M. R. Ram, K. V. Madhav and K. A. Reddy , "On the Performance of Hirschman Optimal Transform based LMS algorithm for cancellation of ECG Power Line Interference," in <i>Proc. of 1st IEEE International Conference on Electronic Design and Signal Processing, ICEDSP</i> , 10-12, Dec 2009, Manipal, India, pp. 816-819.
19	K. V. Madhav, M. R. Ram, E. H. Krishna and K. A. Reddy , "On the Extraction of Respiratory Activity from Photoplethysmographic Signals," in <i>Proc. of International Conference on Aerospace Electronics, Communications & Instrumentation, ASECI-2010</i> , 6-7, Jan 2010, Vijayawada, India, pp. 367-370.
20	E. H. Krishna, M. R. Ram, K. V. Madhav and K. A. Reddy , "Comparative Wavelet analysis for elimination of Power Line Interference from ECG signals," in <i>Proc. of International Conference on Aerospace Electronics, Communications & Instrumentation, ASECI-2010</i> , 6-7, Jan 2010, Vijayawada, India, pp. 352-355.
21	K. V. Madhav, M. R. Ram, E. H. Krishna and K. A. Reddy , "A Model Based Method for Deriving Respiratory Activity from Photoplethysmographic signals," in <i>Proc. of 10th IEEE International Conference on Information sciences, Signal Processing</i>

	<i>and their Applications, Systems and Applications ISSPA-2010</i> , 11-13, May 2010, Kaulalumpur, Malaysia, pp. 312-315. (DOI : 10.1109/ISSPA.2010.5605464)
22	E. H. Krishna, M. R. Ram, K. V. Madhav and K. A. Reddy , "Acoustic Echo Cancellation using a Computationally Efficient Transform Domain LMS Adaptive Filter," in <i>Proc. of 10th IEEE International Conference on Information sciences, Signal Processing and their Applications, Systems and Applications ISSPA-2010</i> , 11-13, May 2010, Kaulalumpur, Malaysia, pp. 409-412. (DOI : 10.1109/ISSPA.2010.5605458)
23	K. V. Madhav, M. R. Ram, E. H. Krishna and K. A. Reddy , "Monitoring respiratory activity using PPG signals by order reduced-modified covariance AR technique," in <i>Proc. of 4th IEEE International Conference on Bioinformatics and Biomedical Engineering iCBBE-2010</i> , 18-20, June 2010, Chengdu, China pp. 385-388. (DOI : 10.1109/ICBBE.2010.5516378)
24	K. V. Madhav, M. R. Ram, E. H. Krishna, K. N. Reddy and K. A. Reddy , "Extraction of Respiration Rate from ECG and BP signals using order reduced-modified covariance AR Technique" in <i>Proc. of IEEE International Conference on Image and Signal Processing CISP 2010</i> , 16-18, Oct., 2010, Yantai, China, pp. 4059-4063. (DOI : 10.1109/CISP.2010.5647507)
25	K. V. Madhav, M. R. Ram, E. H. Krishna, K. N. Reddy and K. A. Reddy , "Estimation of respiratory rate from principal components of photoplethysmographic signals," in <i>Proc. of IEEE EMBS International Conference on Biomedical Engineering & Sciences IECBES 2010</i> , Nov 30 to Dec 02, 2010, Kaulalumpur, Malaysia, pp. 311-314. (DOI : 10.1109/IECBES.2010.5742251)
26	K. V. Madhav, M. R. Ram, E. H. Krishna, K. N. Reddy and K. A. Reddy , "Extraction of Respiratory Activity from PPG and BP signals using Principal Component Analysis," in <i>Proc. of IEEE International Conference on Communications & Signal Processing ICCSP 2011</i> , 10-12 Feb, 2011, Calicut, India, pp. 452-456. (DOI : 10.1109/ICCSP.2011.5739359)
27	K. V. Madhav, M. R. Ram, E. H. Krishna, K. N. Reddy, and K. A. Reddy , "Estimation of Respiration Rate from ECG, BP and PPG signals using Empirical Mode Decomposition," in <i>Proc. of 28th IEEE International Instrumentation and Measurement Technology Conf., I²MTC-2011</i> , Hangzhou, China, 10-12 May, 2011, pp. 1661-1664. (DOI: 10.1109/ IMTC.2011.5944249)
28	K. V. Madhav, M. R. Ram, E. H. Krishna, K. N. Reddy and K. A. Reddy , "A robust signal processing method for extraction of respiratory activity from artifact corrupted PPG signal," in <i>Proc. of IEEE Recent Advances in Intelligent Computational Systems, RAICS 2011</i> , Trivandrum, India, 22-24 Sept, 2011, pp. 451-456. (DOI: 10.1109/ RAICS.2011.6069353).
29	K. V. Madhav, M. R. Ram, E. H. Krishna, K. N. Reddy, and K. A. Reddy , "Use of

	Multi Scale PCA for Extraction of Respiratory Activity from Photoplethysmographic Signals," in <i>Proc. of 29th IEEE International Instrumentation and Measurement Technology Conf., I2MTC-2012</i> , Graz, Austria, 13-16 May, 2012, pp.1784-1787. (DOI: 10.1109/ IMTC.2012.6229406)
30	E. H. Krishna, M. R. Ram, K. V. Madhav, K. Sivani and K. A. Reddy , "EMD based OFDM channel estimation," in <i>Proc. of 29th IEEE International Instrumentation and Measurement Technology Conf., I2MTC-2012</i> , Graz, Austria, 13-16 May, 2012, pp. 2161-2164. (DOI: 10.1109/ IMTC.2012.6229395)
31	K. V. Madhav, M. R. Ram, E. H. Krishna, K. N. Reddy, and K. A. Reddy , "Extraction of Respiratory Activity from ECG and PPG signals using Vector Autoregressive Model," in <i>Proc. of 7th IEEE International Symposium on Medical Measurements and Applications, MeMeA2012</i> , Budapest, Hungary, 18-19 May, 2012. (DOI: 10.1109/ MeMeA.2012.6226650)
32	K. V. Madhav, M. R. Ram, E. H. Krishna, K. N. Reddy, and K. A. Reddy , "Extraction of Respiratory Activity from PPG Signals using Singular Spectrum Analysis," in <i>Proc. International Conference on Communication, VLSI and Signal Processing, ICCVSP - 2013</i> , Tumkur, Karnataka, India, 20-21 Mar, 2013.
33	E. H. Krishna, M. R. Ram, K. V. Madhav, K. Sivani and K. A. Reddy, "Performance Analysis of companding Techniques for Reduction of PAPR in OFDM System," in <i>Proc. International Conference on Communication, VLSI and Signal Processing, ICCVSP - 2013</i> , Tumkur, Karnataka, India, 20-21 Mar, 2013.
34	K. Sharmila, E. H. Krishna, K. N. Reddy and K. A. Reddy , "Application of Multiscale Principal Component Analysis (MSPCA) for enhancement of ECG signals," in <i>Proc. of 28th IEEE International Instrumentation and Measurement Technology Conf., I²MTC-2011</i> , Hangzhou, China, 10-12 May, 2011, pp. 1540-1544. (DOI: 10.1109/ IMTC.2011.5944301)
35	K. Sharmila, E. H. Krishna, K. N. Reddy and K. A. Reddy , "Use of higher order spectral analysis for the identification of sudden cardiac death," in <i>Proc. of 7th IEEE International Symposium on Medical Measurements and Applications, MeMeA2012</i> , Budapest, Hungary, 18-19 May, 2012. (DOI: 10.1109/ MeMeA.2012.6226674)
36	K. Sharmila, E. H. Krishna, K. N. Reddy and K. A. Reddy , "A New Method for Enhancement of ECG Signals Using Cumulant Based AR Modeling," in <i>Proc. of 2013 IEEE Conference on Information and Communication Technologies, ICT 2013</i> , Kumaracoil, India, 11-12 March, 2013. (DOI: 10.1109/ CICT.2013.6558171)
37.	V. Sharmila, E. H. Krishna, K. A. Reddy , "Cumulant based Teager Energy operator for ECG signal modeling", <i>2013 International conference on Advances in Computing, Communications and Informatics, (ICACCI)</i> , 22-25 August-2013, Mysore,

	PP 1959-1963, D.O.I:10.1109/ICACCI.2013.6637482.
38.	T.K. Sai, P. Sunil Kumar and K. A. Reddy , "Expert SWAS Alarm System," in <i>Proc. of 2013 International Conference on Computing, Cybernetics and Intelligent Information Systems (CCIIS)</i> , Vellore, India, 21-23 Nov., 2013.
39.	T.K. Sai and K. A. Reddy , "Fuzzy Logic for Soot Blowing Optimization in a Thermal Power Plant," in <i>Proc. of 2013 International Conference on Computing, Cybernetics and Intelligent Information Systems (CCIIS)</i> , Vellore, India, 21-23 Nov., 2013.
40.	T.K. Sai and K. A. Reddy , "Design of Fuzzy gain scheduler for Super heater Temperature Control in Power Plant," in <i>Proc. of 2014 International Conference on Control, Instrumentation, Energy and Communication (CIEC)</i> , Kolkata, India, 31 Jan - 02 Feb 2014.
41.	M. R. Ram, K. Sivani and K. A. Reddy , "E ² MD for Reduction of Motion Artifacts from Photoplethysmographic Signals", in <i>Proc. of International Conference on Electronics and Communication System (ICECS 2014)</i> , Karpagam college of Engineering, Coimbatore, India, 13-14 Feb., 2014, pp. 1-4, (DOI: 10.1109/ECS.2014.6892793)
42.	E. H. Krishna, K. Sivani and K. A. Reddy , "On the use of Singular Spectrum Analysis for OFDM Channel Estimation," in <i>Proc. of International Conference on Electronics and Communication Systems</i> , Coimbatore, India, 13-14 Feb, 2014, pp. 1-4. (DOI: 10.1109/ECS.2014.6892792)
43.	T.K. Sai and K. A. Reddy , "Measurement and Control of NO _x emissions using Soft Computing techniques in a Thermal power Plant", in <i>Proc. of Recent Advances in Engineering and Computational Sciences (RAECS-2014)</i> , University Institute of Engineering & Technology, Punjab University, Chandigarh, India, 6-8 March, 2014. (DOI: 10.1109/RAECS.2014.6799527)
44.	M. R. Ram, K. Sivani and K. A. Reddy , "Use of EMD Generated Synthetic Noise Reference for reduction of Motion Artifacts from Pulse Oximetry Signals", in <i>Proc. of International Conference on Photonics, VLSI and Signal Processing (ICPVS-2014)</i> , Kakatiya University, Warangal, India, March 28-29, 2014.
45.	E. H. Krishna, K. Sivani and K. A. Reddy , "OFDM Transceiver Using Hirschman Optimal Transform", in <i>Proc. of International Conference on Photonics, VLSI and Signal Processing (ICPVS-2014)</i> , Kakatiya University, Warangal, India, March 28-29, 2014.
46.	M. Raju and K.A. Reddy , "M-PSK based OFDM simulation in wireless communication systems," in <i>Proc. of International Conference on Photonics, VLSI and Signal Processing - (ICPVS-2014)</i> , Kakatiya University, Warangal, India, March 28-

	29, 2014.
47.	M. Raju and K. A. Reddy , "A Novel methods of ICI self cancellation scheme in OFDM system," in <i>Proc. of International Conference on Emerging Trends in Engineering & Technology - (ICETET- 2014)</i> , Warangal, September 29 -30, 2014.
48.	E. H. Krishna, K. Sivani and K. A. Reddy , "Hardware Implementation of OFDM Transceiver using FPGA," in <i>Proc. of IEEE International Conference on Computer and computational Sciences (ICCCS)</i> , Greater Noida, Ghaziabad, India, 27-29, January, 2015, pp. 3-7. (DOI: 10.1109/ICCACS.2015.7361131)
49.	E. H. Krishna, K. Sivani and K. A. Reddy , "OFDM Channel Estimation and Equalization Using Multi Scale Independent Component Analysis," in <i>Proc. of IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems (IEEE SPICES)</i> , Kozhikode, India, 19-21, February, 2015, pp. 1-5. DOI: (10.1109/SPICES.2015.7091408)
50.	T. K. Sai, P. S. Kumar and K. A. Reddy , "Towards intelligent decision making in power plant operation" in <i>Proc. of 2014 annual India Conference (INDICON-2014)</i> , Pune, India, 11-13, December 2014, pp. 1-6. DOI: (10.1109/INDICON.2014.7030607)
51.	T. K. Sai and K. A. Reddy , Design of Fuzzy gain scheduler for Superheater Temperature Control in Power Plantm," in <i>Proc. of 2nd International Conference on Control, Instrumentation, Energy & Communication System (CIEC 2016)</i> , University of Calcutta, Kolkata, India, 28-30 Jan., 2016. (10.1109/CIEC.2016.7513817)
52.	M. Raju and K. A. Reddy , "BER performance of OFDM for M-PSK signal transmission through AWGN and Small scale fading channel environment," in <i>Proc. of International Conference on Electronics and Communication System (ICECS 2016)</i> , Karpagam college of Engineering, Coimbatore, India, 25-26 Feb., 2016. (in press)
53.	K. V. Madhav, E. H. Krishna and K. A. Reddy , "Extraction of Respiratory Activity from Pulse Oximeter Signals using Tunable Q-factor Wavelet Transform," in <i>Proc. of International Conference on Electronics and Communication System (ICECS 2016)</i> , Karpagam college of Engineering, Coimbatore, India, 25-26 Feb., 2016. (in press)
54.	M. R. Ram, K. Sivani and K. A. Reddy , "SSA based adaptive filter for detection and reduction of motion artifacts from pulse oximeter data," in <i>Proc. of International Conference on Electronics and Communication System (ICECS 2016)</i> , Karpagam college of Engineering, Coimbatore, India, 24-25 Feb., 2016.
55.	E. H. Krishna, K. Sivani and K. A. Reddy , "A Signal Processing Method based on Multi-Scale Principal Component Analysis for OFDM Channel Estimation," in <i>Proc. of International Conference on Electronics and Communication System (ICECS 2016)</i> , Karpagam college of Engineering, Coimbatore, India, 25-26 Feb., 2016.

56.	K. V. Madhav, E. H. Krishna and K. A. Reddy , "Extraction of Surrogate Respiratory Activity from Pulse Oximeter Signals using SSA," in <i>Proc. of International Conference on Electrical, Electronics & Optimization Techniques (ICEEOT 2016)</i> , DMI college of Engineering, Chennai, India, 3-5 March, 2016. (10.1109/ICEEOT.2016.7754979).
57.	M. R. Ram, K. Sivani and K. A. Reddy , "Use of Complex EMD generated Noise Reference for Adaptive reduction of Motion Artifacts from PPG Signals," in <i>Proc. of International Conference on Electrical, Electronics & Optimization Techniques (ICEEOT 2016)</i> , DMI college of Engineering, Chennai, India, 3-5 March, 2016. (10.1109/ICEEOT.2016.7755001)
58.	E. H. Krishna, K. Sivani and K. A. Reddy , "Performance Analysis of Companding Techniques for Reduction of PAPR in OFDM System," in <i>Proc. of International Conference on Electrical, Electronics & Optimization Techniques (ICEEOT 2016)</i> , DMI college of Engineering, Chennai, India, 3-5 March, 2016. (10.1109/ICEEOT.2016.7755002)
59.	M. Raju and K.A. Reddy , "Evaluation of BER for AWGN, Rayleigh Fading Channels under M-QAM Modulation Scheme," in <i>Proc. of IEEE International Conference on Electrical, Electronics and Optimization Techniques (ICEEOT)</i> , Chennai, India, 3-5, March, 2016 (10.1109/ICEEOT.2016.7755268)
60.	E. H. Krishna, K. Sivani and K. A. Reddy , "Improved multi-scale principal component analysis based OFDM channel estimation," in <i>Proc. of IEEE International Conference on Wireless Communications Signal Processing and Networking (WiSPNET)</i> , Chennai, India, 23-25, March, 2016 . (10.1109/WiSPNET.2016.7566411)
61.	M. R. Ram, K. Sivani and K. A. Reddy , "Utilization of Adaptive-coefficient Estimation Method for Motion Artifacts Reduction from Photoplethysmographic Signals," in <i>Proc. of IEEE International Conference on Wireless Communications Signal Processing and Networking (WiSPNET)</i> , Chennai, India, 23-25, March, 2016 . (10.1109/WiSPNET.2016.7566247)
62.	K. V. Madhav, E. H. Krishna, and K. A. Reddy , "Extraction of Respiratory Activity from Pulse Oximeter's PPG signals using MSICA," in <i>Proc. of IEEE International Conference on Wireless Communications Signal Processing and Networking (WiSPNET)</i> , Chennai, India, 23-25, March, 2016 . (10.1109/WiSPNET.2016.7566248)
63.	M. Raju and K.A. Reddy , "Mean Square Error Analysis in MIMO-OFDM System using Pilot based Channel Estimation," in <i>Proc. of IEEE International Conference on Signal Processing, Communication, Power and Embedded Systems (SCOPEs)</i> , Paralakhemundi, Odisha, India, 3-5, October, 2016 (10.1109/SCOPEs.2016.7955717)
64.	G. Rajender Naik, K. A. Reddy , "Classification of ECGs using Intensity Weighted Fire-Fly Optimization and Multimodal Decision Learning Algorithm", 2nd IEEE International Conference on Computer and Communications (ICCC 2016), Chengdu, China, during Oct 14 - 17, 2016. ISBN: 978-1-5090-4497-9.

	(10.1109/CompComm.2016.7924812)
65.	G. Rajender Naik, K. A. Reddy , "A New Model for ECG Signal Filtering and Feature Extraction", 2nd IEEE International Conference on Computer and Communications (ICCC 2016), Chengdu, China, during Oct 14 - 17, 2016. ISBN: 978-1-5090-4497-9. (10.1109/CompComm.2016.7924806)
66.	G. Rajender Naik, K. A. Reddy , "Comparative Analysis of ECG Classification using Neuro-Fuzzy Algorithm and Multimodal Decision Learning Algorithm", 3rd IEEE International Conference on Soft Computing and Machine Intelligence (ISCMI2016), held at Dubai during Nov 23 - 25, 2016. ISBN: 978-1-5090-3696-7. (10.1109/ISCMI.2016.35)
67.	E. H. Krishna, K. Sivani and K. A. Reddy , "OFDM Channel Estimation using Tunable Q-factor Wavelet Transform," in <i>Proc. 2016 International Conference on Control, Instrumentation, Communication & Computational Technologies, ICCICCT-2016</i> , Kanyakumari, India, 16-17, December, 2016 . (10.1109/ICCICCT.2016.7988014)
68.	M. R. Ram, K. Sivani and K. A. Reddy , "Reduction of Motion Artifacts from Pulse Oximeter's PPG Signals using MSICA," in <i>Proc. 2016 International Conference on Control, Instrumentation, Communication & Computational Technologies, ICCICCT-2016</i> , Kanyakumari, India, 16-17, December, 2016 . (10.1109/ICCICCT.2016.7988000)
69.	K. V. Madhav, E. H. Krishna, and K. A. Reddy , "Extraction of Respiratory Activity from PPG Signals using an Adaptive Fourier Coefficient Estimator," in <i>Proc. 2016 International Conference on Control, Instrumentation, Communication & Computational Technologies, ICCICCT-2016</i> , Kanyakumari, India, 16-17, December, 2016 . (10.1109/ICCICCT.2016.7987991)
70.	Ch. Navitha, K. Sivani and K. A. Reddy , "Use of Dual Tree Complex Wavelet Transform for UWB system RAKE receiver," in <i>Proc. International Conference on Control, Instrumentation, Communication & Computational Technologies, ICCICCT-2016</i> , Kanyakumari, India, 16-17, December, 2016 . (10.1109/ICCICCT.2016.7988016)
71.	M. R. Ram, K. Sivani and K. A. Reddy , "Reduction of motion artifacts from pulse oximeter signals using tunable Q-factor wavelet transform technique" in <i>Proc. of IEEE International Conference on Computer, Communication and Signal Processing (ICCCSP)</i> , Chennai, India, 10-11, January, 2017 . (10.1109/ICCCSP.2017.7944097)
72.	K. V. Madhav, E. H. Krishna, and K. A. Reddy , "Detection of Sleep Apnea from Multiparameter Monitor Signals using Empirical Mode Decomposition," in <i>Proc. of IEEE International Conference on Computer, Communication and Signal Processing (ICCCSP)</i> , Chennai, India, 10-11, January, 2017 . (10.1109/ICCCSP.2017.7944095)
73.	E. H. Krishna, K. Sivani and K. A. Reddy , "Use of Adaptive Step Size LMS algorithm for OFDM Channel Estimation" in <i>Proc. of IEEE International Conference on Computer, Communication and Signal Processing (ICCCSP)</i> , Chennai, India, 10-11,

	January, 2017. (10.1109/ICCCSP.2017.7944100)
74.	I. Chandran, M. Raju and K. A. Reddy , "Comparative analysis of various channel estimators under different modulation schemes", <i>IEEE International Conference on trends in electronics and informatics (ICEI 2017)</i> , Tirunelveli, TN, India, 11-12, May 2017 .
75.	Ch.Navitha, K. Sivani and K. A. Reddy, "Adaptive Rake receiver using dual tree complex wavelet transform for an ultra-wide band system", in <i>Proc. of IEEE International Conference on Wireless Communications, Signal Processing and Networks(WiSPNET)</i> , SSN college of Engg., Chennai, India March. 22-24, 2017, pp.536-540.
76.	B. Narasimha, E. H. Krishna and K. A. Reddy , "Multi-scale singular spectrum analysis for channel estimation of OFDM transceiver system," in <i>Proc. of IEEE Recent Advances in Intelligent Computational Systems, RAICS 2018</i> , Trivandrum, India, 06-08 December, 2018, pp. 75-78.
77.	G. Rajender Naik, K. A. Reddy , "An efficient filtering method and integrated peak analyzer for ECG analysis," <i>IEEE International Conference on Electrical, Electronics, Communication, Instrumentation and Computing (ICECEIC 2019)</i> , Kanchipuram, Talilnadu, India, 30-31, Jan 2019. (in press)
78.	G. Rajender Naik, K. A. Reddy , "Effective ECG arrhythmia classification using MDL algorithm", <i>IEEE International Conference on Electrical, Electronics, Communication, Instrumentation and Computing (ICECEIC 2019)</i> , Kanchipuram, Talilnadu, India, 30-31, Jan 2019. (in press)
79.	M. Raju and K. A. Reddy , "BER performance of OFDM for M-PSK signal transmission through AWGN and Small scale fading channel environment," <i>IEEE International Conference on Electrical, Electronics, Communication, Instrumentation and Computing (ICECEIC 2019)</i> , Kanchipuram, Talilnadu, India, 30-31, Jan 2019. (in press)

Text/Reference Books

1	G. Rajender nail and K. A. Reddy , <i>Signal processing Methods for ECG Analysis</i> , Lambert Academic Publishing, Germany, 2017 ISBN: 978-3-330-00384-2
2	M. Raju and K. A. Reddy , <i>Novel Methods for Channel Estimation in Multicarrier Communications</i> , Lambert Academic Publishing, Germany, 2017 ISBN: 978-3-330-32766-5
3	T.K.Sai and K. A. Reddy , <i>Soft Computing Techniques for Power Plants</i> , Lambert Academic Publishing, Germany, 2017 ISBN: 978-620-2-05634-2

4	V. Sharmila and K. A. Reddy , <i>Some methods for ECG signal Analysis for Arrhythmia Detection</i> , Lambert Academic Publishing, Germany, 2017 ISBN: 978-3-330-33460-1
5	K.V. Madhav and K. A. Reddy , <i>Signal Processing Methods for Extraction of Respiratory Activity</i> , Lambert Academic Publishing, Germany, 2015, ISBN: 978-3-659-95305-7
6	K.A. Reddy , <i>Innovative methods for performance Enhancement of Pulse oximeters</i> , Lambert Academic Publishing, Germany, 2015, ISBN: 978-3-659-46598-7
7	G. R. Naik, K. A. Reddy and P. N. Reddy, <i>Electronic Control of DC Motors</i> , Lambert Academic Publishing, Germany, 2012, ISBN: 978-3-659-29110-4

Book Chapters

1	K. A. Reddy, " <i>Pulse Oximetry: An Introduction</i> " in edited Book on Information Security in biomedical Signal Processing , IGI Global Publisher, USA (ISBN13: 9781522551522 ISBN10: 1522551522 EISBN13: 9781522551539 DOI: 10.4018/978-1-5225-5152-2)
2	Article presented at <i>International conference ICEDSP 2009</i> published in chapter 1 of book titled "Electronic Design and Signal Processing" Edited by Kumara Shama, K. P. Nayak & Somashekara Bhat, Published by <i>Narosa Publishing House Pvt. Ltd.</i> , 2012, India (ISBN: 978-81-8487-160-9)
3.	E. H. Krishna, K. Sivani and K. A. Reddy, "OFDM Transceiver Using Hirschman Optimal Transform", Elsevier Science & Technology. (ISBN: 978-935-107-228-7), 2010

RESEARCH GUIDANCE (Ph.D)			Awarded : 06		
			Submitted : 00		
			Ongoing : 05		
S. No	Name of the scholar	Title of Thesis/ Area of Research	University	Status	Co-supervisor, if any
1	K. Gopal Kishan Rao KU, WGL	<i>Design & Fabrication of Gamma Ray Densitometer and study of thermo physical properties of some metals</i>	KU, WGL	Awarded (January 2013)	Dr. N. Gopi Krishna, Professor of Physics, KU

		<i>and alloys</i>			
2	K. Venu Madhav Dept of E&I Engg., KITSW	<i>Extraction of respiratory activity from biomedical signals</i>	JNTUH, HYD	Awarded (August 2013)	-
3	V. Sharmila Dept of ECE, KITS(S), Huzurabad	<i>Model based interpretation for ECG signal analysis for arrhythmia detection</i>	JNTUH, HYD	Awarded (March 2016)	-
4	T. Krishna Sai DGM (I&C), NTPC, Trivendrum	<i>Intelligent measurement and control using soft computing techniques in power plant</i>	KU, WGL	Awarded (April 2016)	-
5	M. Raju Dept of ECE, KITSW	<i>Channel Estimation for Multicarrier Communication systems</i>	KU, WGL	Awarded (May 2017)	-
6	G. Rajender Naik Dept of EEE, KITSW	<i>Signal processing methods for ECG signal Analysis</i>	KU, WGL	Awarded (June 2017)	-
7	M.Raghu Ram Dept of E&I Engg., KITSW	<i>Signal processing methods for detection and reduction of motion artifacts in PPG for pulse oximeters</i>	JNTUH, HYD	Pursuing	Dr. K. Sivani Professor of E&I Engg., KITSW
8	E. Hari Krishna Dept of ECE, KUCE&T, KU, WGL	<i>Development of a dedicated reconfigurable prototyping system for OFDM channel estimation and secured communication</i>	JNTUH, HYD	Pursuing	Dr. K. Sivani Professor of E&I Engg., KITSW
9	Ch. Navitha Dept of ECE, KITSW	<i>Development and implementation of efficient WCDMA RAKE receiver for spread spectrum based channel tracking</i>	JNTUH, HYD	Pursuing	Dr. K. Sivani Professor of E&I Engg., KITSW

10	B. Narsimha Dept of ECE, KITSW	<i>Signal Processing Methods for early detection of Arthritis Vibr</i>	KU, WGL	Pursuing	-
11	B. Venu Maheshwar, Dept of EIE, KITSW	<i>Detection of Sleep Apnea from ECG and PPG Signals</i>	KU, WGL	Pursuing	-

PROJECTS

S.No	Details	Value(Rs.)	Status
1.	<i>AICTE funded Modernization & Removal of Obsolescence Scheme (MODROBS) Project Role: Co-ordinator Title: Modernization of Instrumentation Laboratory</i>	Grant-in-Aid Sanctioned: 8.0 lakhs (Lr. No: 8024/RID/BOR/MOD/064/9/ 10; dated 21.12.2009)	Completed
2	<i>AICTE funded Research Promotion Scheme (RPS) Project Role: Principal Investigator Title: Development of Novel methods for Reduction of Motion Artifacts and extraction of Respiratory Activity from Artifact Corrupted PPG signals in Pulse Oximeters</i>	Grant-in-Aid Sanctioned: 9.9 lakhs (Lr. No: 20/AICTE/RIFD/RPS (POLICY-IV) 29/2012-13; dated 19.03.2013)	Completed
4	<i>Consultancy Project "Identification & Counting of Objects from a High Resolution Camera Snap for Cement Industries" Role: Principal Investigator Sumith Electronics Pvt. Ltd., Hyderabad</i>	Rs. 1,50,000/-	Ongoing

PATENTS (Applied)

S.No	Details	Status
1	A non-invasive method and device for the measurement of Oxygen Saturation in Arterial blood - I (No: 1189/CHE/2007)	<i>Pending Hearing</i>
2	A non-invasive method and device for the measurement of	<i>Pending</i>

	Oxygen Saturation in Arterial blood - II (No: 1191/CHE/2007)	Hearing
AWARDS		
S.No	Details	
1	<p>Received <i>Innovative Student Project Award - 2009</i> on December 17, 2009 at Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam, TAMILNADU.</p> <ul style="list-style-type: none"> ▪ This award is instituted by The Indian National Academy of Engineering (INAE), Dept. of Science & Technology (DST), New Delhi, to recognize every year innovative and creative projects of research scholars at Ph.D level ▪ Received this award for his Ph.D work "Novel Signal Processing Methods for Performance Enhancement of Pulse Oximeters" 	
2	<p>Research Excellence Award-2017:</p> <ul style="list-style-type: none"> ▪ This award is instituted by The Institute for Exploring Advances in Engineering (IEAE) ▪ Received this award for my research work published as "Use of Fourier series analysis for motion artifact reduction and data compression of photoplethysmographic signals", <i>IEEE Trans. Instrum. Meas.</i>, vol. 58, no.5, pp.1706-1711, May 2009. (DOI: 10.1109/TIM.2008.2009136) 	
FDPs Organized		
1	<ul style="list-style-type: none"> ▪ Role: Coordinator ▪ AICTE Sanctioned FDP ▪ Duration: 2 weeks (to be organized from 20th November, 2017 to 1st December, 2017) ▪ FDP on " OFDM and Its Implementation using Matlab" ▪ Venue: KITSW ▪ <i>AICTE, Lr. No: 20/AICTE/RIFD/RPS, dated 06-06-2017</i> 	
2	<ul style="list-style-type: none"> ▪ Role: Convener ▪ TSCHE, ISTE and IETE Sponsored FDP ▪ Duration: One week (19th-23rd July, 2017) ▪ FDP on "Quality Assurance in Higher education Institutions and Industries" ▪ Venue: KITSW 	

FDPs Attended				
S. No	Details	Place	Dates	
			From	To
1	Digital Image Processing and Its Applications	NIT Warangal	20/06/2015	24/05/2015
2	Advanced DSP and Applications	NIT Warangal	27/07/2015	31/07/2015
3	Signal processing for Communications	NIT Warangal	04/01/2016	08/01/2016
4	GiAN Program on Biomedical Signal Analysis (Course Code: 161036D03)	NIT Warangal	10/10/2015	15/10/2015
5	Hands on LabVIEW and Its Applications in Engineering	KITS Warangal	04/05/2017	09/05/2017
6	Quality Assurance in Higher Educational Institutions and Industries (TSCHE)	KITS Warangal	19/07/2017	23/07/2017

Short Term Training Programs / Workshops Attended				
S. No	Details	Place	Dates	
			From	To
1	Speech technology	IIT Madras	04/04/1997	06/04/1997
2	Advanced Signal processing	NERTU, Osmania University, Hyderabad	17/12/2003	19/12/2003
3	Selected Topics in Medical Imaging	NERTU, Osmania University, Hyderabad	18/12/2012	18/12/2012

4	CII National Higher Education Conclave	CII, Coimbatore	29/11/2013	30/11/2013
5	Effective Functioning of an Autonomous Institute	KITS Warangal	17/01/2015	18/01/2015
6	Quality Assurance through Outcome Based Education	The Leela Ambience Hotel, New Delhi	18/03/2017	20/03/2016

Significant Outreach Activities			
S. No	Name of Activity	Place	Date
1	INAE-Innovative Student Project Award at Doctoral level-2009	INAE, New Delhi	17/12/2009
2	Member, BoS Meeting	Lakkireddy Bali Reddy College of Engineering, Mylavaram,AP	05/07/2016
3	Member, BoS Meeting	Lakkireddy Bali Reddy College of Engineering, Mylavaram,AP	04/06/2011
4	Member, BoS Meeting	Lakkireddy Bali Reddy College of Engineering, Mylavaram,AP	04/09/2010
5	Member, Academic Council Meeting	Jayamukhi Institute of Technological Sciences, Narsampet, Warangal	17/07/2017
6	Member, Academic Council Meeting	Jayamukhi Institute of Technological Sciences, Narsampet, Warangal	20/06/2016
7	Member, Academic Council Meeting	Jayamukhi Institute of Technological Sciences, Narsampet, Warangal	19/12/2015

8	Lecture on “ Characteristics of an Effective teacher” in One week FDP on Instructional Design and Delivery methods in Engineering Education	Teaching-Learning Centre, NIT Warangal	05/05/2017
9	Keynote Speaker at 3 rd International Conference on Recent Developments on Engineering, Science, Management and Humanities (ICRDESMH)	New Delhi	11/12/2016
10	Expert Talk on “Variants of LMS Adaptive Filtering for Signal Enhancement” in FDP on Advanced DSP and Applications	Dept of ECE, NIT Warangal	07/01/2016
11	Expert Talk on “Modelling of Bio-signals” in FDP on Signal processing for Communications	Dept of ECE, NIT Warangal	31/07/2015
12	Chair at 2 nd International Conference on Computers & Communication Technologies	CMR Technical Campus, Hyderabad	25/07/2015
13	Speaker on EAMCET Career Counselling programme organised by The Hindu Education Plus	Kakatiya University, Warangal	09/06/2015
14	Keynote Speaker at National Conference on Recent Advances in Communications & Electronics (RACE-15) on “PCA to MSPCA”	Kamala Institute of Technology & Science, Huzurabad	27/02/2015
15	Session Chair at National Conference on Recent Advances in Communications & Electronics (RACE-15)	Kamala Institute of Technology & Science, Huzurabad	28/02/2015
16	Resource person at International Conference on Vibration problems for “Workshop on MATLAB”	Kakatiya University, Warangal	19/02/2015

17	Keynote Speaker at International Conference on Recent Advances in Communications, VLSI & Embedded Systems on "SVD to SSA"	SR Engineering College, Warangal	19/12/2014
18	Expert talk at International conference on Photonics, VLSI and Signal Processing on "Trends in Biomedical Signal Processing"	Kakatiya University, Warangal	28/03/2014
19	Seminar on "Matlab Programming: Basics to Applications" at National level technical Symposium	KITS, Warangal	16/02/2014
20	Technical Session Chair in One day "Workshop on Defence Electronics:	Kakatiya University , Warangal	05/02/2014
21	Expert Lecture on "Electrical Applications of Matlab" in AICTE Sponsored FDP on Micro Grid and Distributed generation	KITS, Warangal	31/10/2013
22	Expert Talk on "Pulse Oximetry" in AICTE sponsored FDP on Recent Trends in Embedded Systems & Signal processing for Communications	SVS Institute of Technology, Warangal	22/09/2013
23	Expert Talk on "Signal Processing for Pulse Oximetry-Adaptive techniques for Bio-signals" in AICTE sponsored FDP on Recent Trends in Embedded Systems & Signal processing for Communications	SVS Institute of Technology, Warangal	27/09/2013
24	Lecture-1 on " Biomedical signal Modelling & Processing" in TEQUIP-II sponsored FDP on Biomedical Signal processing	Sree Vidyanikethan Engineering College, Tirupati	22/06/2013
25	Lecture-2 on " Adaptive Filters for Bio-signal Processing" in TEQUIP-II sponsored FDP on Biomedical Signal	Sree Vidyanikethan Engineering College,	22/06/2013

	processing	Tirupati	
26	Expert Lecture on "Using Matlab for Communication signal processing"	Kamala Institute of Technology & Science, Huzurabad	24/08/2012
27	Speaker on EAMCET Career Counselling programme organised by The Hindu Education Plus	Kakatiya University, Warangal	08/07/2012
28	Member, Selection Committee for Recruiting Academic Consultants	KU College of Engineering, Kakatiya University, Warangal	10/06/2012
29	Member, Selection Committee for Recruiting Academic Consultants	KU College of Engineering, Kakatiya University, Warangal	27/07/2011
30	Expert Talk on "Embedded Microcontrollers and Applications" in AICTE sponsored FDP on Embedded and Real Time Operating Systems	Jayamukhi Institute of Technological Sciences, Narsampet, Warangal	06/07/2011
31	Expert lecture on " Medical Signal processing"	IETE Centre, Warangal	19/06/2011
32	Member-Nominee of Kakatiya University, CET Committee-2011 Meeting	JNTUH, Hyderabad	06/06/2011
33	Keynote Speaker at National Conference on Recent Advances in Communications & Electronics (RACE-11) on "Signal processing for Pulse oximeters for Reduction of Motion Artifacts"	Kamala Institute of Technology & Science, Huzurabad	11/03/2011
34	Keynote Speaker at National Conference on Recent Advances in Communications & Electronics (RACE-11) on "Signal processing	Kamala Institute of Technology & Science, Huzurabad	12/03/2011

	Methods for ECG signal Analysis”		
35	Member-Nominee of Kakatiya University, EAMCET Committee-2011 meeting	JNTUH, Hyderabad	29/01/2011
36	Expert Lecture on “Pulse Code Modulation” in APSCHE sponsored Training Programme on Microprocessors and Microcontrollers.	Dept of Physics, Kakatiya University, Warangal	18/07/2010
37	Expert Lecture on “Digital Signal processing” in APSCHE sponsored 5-day Training Programme on Microprocessors and Microcontrollers for PG Teachers.	Dept of Physics, Kakatiya University, Warangal	25/02/2010
38	Expert member on Selection Committee-Selection of Teachers for Certain Private Engg Colleges	JNTUH, Hyderabad	01/04/2010
39	Expert talk on “Pulse Oximetry and Applications” on IETE Foundation Day celebrations	IETE Centre, Warangal	11/02/2010
40	Expert Talk on “DSP and Applications” in AICTE sponsored FDP on Hands On DSP Tools, Algorithms and Architechtures	Jayamukhi Institute of Technological Sciences, Narsampet, Warangal	18/12/2009
41	Member, Admission Committee for PhD in Engineering & Technology for selection of PhD candidates	Kakatiya University, Warangal	10/09/2009
42	Sumith Electronics (Pvt.) Ltd., Hyd	Interaction with industry	11/01/2012
43	Cybermotion Technologies Pvt. Ltd., Hyderabad	Interaction with industry	11 /01/2012
44	CII-Industry Institute Interaction meeting, Hyd	Interaction with industry experts	15/02/2012
45	Anton Paar, Graz, Austria	Interaction with industry	16/05/2012

46	Graz Technological University, Graz, Austria	Tutorials & Interaction with eminent professors	15/05/2012
47	CII-Education & skill development meeting	Interaction with industry experts	16/06/2012
48	NASSCOM Academic Initiative Project- Engineering Proficiency Program (EPP) meeting, Bangalore	Interaction with industry experts	24/12/2012
49	NASSCOM Academic Initiative Project- Engineering Proficiency Program (EPP) meeting, banglore	Interaction with industry experts	18/01/2013
50	NASSCOM: Special workshop on Refurbishing Engineering curricula outcomes & Model assessment	Interaction with industry experts	18/01/2013
51	Annual ITsAP (The IT & ITES Industry Association of AP) meeting	Interaction with industry experts	16/05/2013

ABROAD VISITS			
Place of visit	Purpose of visit	Name of Event	Duration
Graz, Austria	Paper Presentation	<i>IEEE International Instrumentation and Measurement Technology Conference, I2MTC-2012</i>	12-17 May, 2012
Budapest Hungary	Paper Presentation	<i>IEEE International Symposium on Medical Measurements and Applications, MeMeA2012</i>	18-19 May, 2012

PROFESSIONAL AFFILIATION
Details
<i>Member – Institute of Electrical and Electronics Engineers (IEEE – M 92126392)</i>
<i>Member – Indian Society for Technical Education (ISTE- LM 21927)</i>
<i>Member – IETE-M 149721L</i>
<i>Member- Institute for Exploring Advances in Engineering (IEAE)</i>

(Prof. K. Ashoka Reddy)