

## *Curriculum Vitae*

***Dr. Ette Hari Krishna***

<b>Date of birth</b>	10.08.1983
<b>Designation</b>	Assistant Professor Electronics & Communication Engineering
<b>Work Place</b>	University College of Engineering, Kakatiya University, Kothagudem, Telangana State- 507 101 <i>Mobile: +91-99949892604</i> <i>email: hari_etta@yahoo.co.in</i>

<b>EDUCATION</b>				
<b>Degree</b>	<b>Details (specialization)</b>	<b>Institute/University</b>	<b>Years of Course, Year completed</b>	<b>Percentage, Grade</b>
<b>Diploma</b>	Electronics & Communication Engineering	State Board of Technical Education, Hyderabad	1998-2001, April 2001	73.5, First class
	<i>Project Work: Digital Sine wave generation using 8085 microprocessor</i> <i>Supervisor: Sri. G. Ramchandra Rao, Asst. Prof. of ECE, Govt. Polytechnic College, Warangal, Andhra Pradesh.</i>			
<b>B. Tech.</b>	Electronics & Communication Engineering	JNTU Hyderabad	2001-2004, May 2004	74.13, First class with distinction
	<i>Project Work: Simulation of Controller Area Network (CAN) protocol</i> <i>Supervisor: Dr. B. Ramesh, Professor of ECE, Kamala Institute of Technology &amp; Science, Huzurabad, Karimnagar, Andhra Pradesh</i>			
<b>M. Tech.</b>	Digital Communications (through GATE)	Kakatiya University, Warangal	2007-2009, July 2009	89.9, First class with distinction
	<i>Thesis: Cancellation of echo in audio signals using Hirschman Optimal Transform (HOT) LMS adaptive filter</i> <i>Supervisor: Dr. K. Ashoka Reddy, Professor of ECE, Kakatiya Institute of Technology &amp; Science, Warangal, Andhra Pradesh</i>			

<b>Ph D</b>	Signal Processing for communication	JNTUH, Hyderabad	2011-2021, April 2021	-----
	<p><i>Thesis: Performance enhancement methods for OFDM Systems</i></p> <p><i>Supervisor: Dr. K. Ashoka Reddy, Professor of ECE, Kakatiya Institute of Technology &amp; Science, Warangal, Telangana State.</i></p> <p><i>Co-Supervisor: Dr. K. Sivani, Professor of E&amp;I Engg., Kakatiya Institute of Technology &amp; Science, Warangal, Telangana State.</i></p>			

<b>WORK EXPERIENCE: 20 Years</b>				
<b>Details</b>	<b>Duration</b>	<b>From</b>	<b>To</b>	<b>Organization</b>
<i>Assistant Professor</i>	9 years	9 <sup>th</sup> September 2015	Till date	University College of Engineering, KU, Kothagudem
<i>Assistant Professor</i>	1 ¼ year	1 <sup>st</sup> June 2014	08 <sup>th</sup> September 2015	University College of Engineering & Technology for Women, Kakatiya University Campus, Warangal
<i>Assistant Professor</i>	4 years	23 <sup>rd</sup> July 2010	30 <sup>th</sup> April 2014	KU College of Engineering & Technology, Kakatiya University Campus, Warangal
<i>Assistant Professor</i>	¼ year	5 <sup>th</sup> May 2010	22 <sup>nd</sup> July 2010	University College of Engineering, KU, Kothagudem
<i>Assistant Professor (Regular)</i>	4 years	11 <sup>th</sup> August 2006	4 <sup>th</sup> May 2010	Kakatiya Institute of Technology & Science, Warangal
<i>Lecturer (Adhoc)</i>	1 ½ year	29 <sup>th</sup> November 2004	10 <sup>th</sup> August 2006	Kakatiya Institute of Technology & Science, Warangal

<b>RESEARCH INTERESTS:</b>	
<i>Signal processing for communications, Biomedical signal processing</i>	
<b>Publications in Peer Reviewed Refereed Journals:</b> SCI (7), Scopus (3), Others (4)	
<b>S. No.</b>	<b>Details</b>
[1].	<p>K. V. Madhav, <b>E. H. Krishna</b> and K. A. Reddy, “Improved Bivariate-VAR Model for Extraction of Respiratory Information from Artifact Corrupted ECG and PPG Signals. New Gener. Comput. (June 2024). <b>(SCI, Impact factor: 2.6, Q2)</b></p> <p><b>(DOI: 10.1007/s00354-024-00265-2; Electronic ISSN: 1882-7055; Print-ISSN: 0288-36350)</b></p>

[2].	B. V. Rao, <b>E. H. Krishna</b> and K. A. Reddy, "Wavelet transform generated inherent noise reference for adaptive filtering to de-noise pulse oximeter signals," pp. 251-273, vol. 21, no. 2, June 2024. ( <b>Scopus, Q4</b> ) (DOI: <a href="https://doi.org/10.2298/SJEE2402251R">https://doi.org/10.2298/SJEE2402251R</a> ; <b>eISSN</b> : 2217-7183; <b>pISSN</b> : 1451-4869)
[3].	B. Jeevan, K. Bikshalu, <b>E. H. Krishna</b> and K. Sivani, "Design of 2-1 multiplexer based high-speed, two-stage 90 nm carry select adder for fast arithmetic units," <i>Elsevier Microprocessor and Microsystems</i> , vol. 99, June 2023. ( <b>SCI, Impact Factor: 2.6, Q2</b> ) (DOI:10.1016/j.micpro.2023.104846; <b>Print ISSN</b> : 0141-9331; <b>Online ISSN</b> : 1872-9436)
[4].	<b>E. H. Krishna</b> , K. Sivani and K. A. Reddy, "OFDM channel estimation along with de-noising approach under small SNR environment using SSA," <i>Journal of Communications software and systems</i> , vol. 18, no.1, pp. 28-35, March 2022. ( <b>Scopus, WoS, ESCI, Q3</b> ) (DOI: 10.24138/jcomss.v18i1.1082, <b>ISSN</b> : 1845-6421)
[5].	<b>E. H. Krishna</b> , K. Sivani and K. A. Reddy, "New channel estimation method using singular spectrum analysis for OFDM Systems," <i>Springer Wireless Personal Communications</i> , vol. 101, pp. 2193-2207, August 2018. ( <b>SCI, Q3, Impact factor: 2.2</b> ) (DOI: 10.1007/s11277-018-5811-5; <b>ISSN</b> : 0929-6212; <b>e-ISSN</b> : 1572-834X)
[6].	<b>E. H. Krishna</b> , K. Sivani and K. A. Reddy, "On the use of EMD based adaptive filtering for OFDM channel Estimation," <i>Elsevier AEÜ International Journal of Electronics and Communications</i> , vol. 83, pp. 492-500, January 2018. ( <b>SCI, Q2, Impact factor: 3.2</b> )(DOI: 10.1016/j.aeue.2017.11.002; <b>ISSN</b> : 1434-8411)
[7].	<b>E. H. Krishna</b> , K. Sivani and K. A. Reddy, "Empirical mode decomposition based adaptive filtering for orthogonal frequency division multiplexing channel estimation," <i>International Journal of Engineering (IJE) Transactions A: Basics</i> , vol. 30, no. 10, pp. 1517-1525, October 2017. ( <b>Scopus, Q3</b> ) (DOI: 10.5829/ije.2017.30.10a.13; <b>ISSN</b> : 1728-1431; <b>e-ISSN</b> : 1735-9244)
[8].	M. R. Ram, K. V. Madhav, <b>E. H. Krishna</b> , 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. ( <b>SCI, Q1, Impact factor: 5.6</b> )(DOI: 10.1109/TIM.2011.2175832; <b>ISSN</b> : 0018-9456; <b>e-ISSN</b> :1557-9662)
[9].	K. V. Madhav, M. R. Ram, <b>E. H. Krishna</b> , 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. ( <b>SCI, Q1, Impact factor: 5.6</b> ) (DOI: 10.1109/TIM.2012.2232393; <b>ISSN</b> : 0018-9456; <b>e-ISSN</b> :1557-9662)

[10].	M. R. Ram, K. V. Madhav, <b>E. H. Krishna</b> , 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. ( <b>SCI, Q1, Impact factor: 5.6</b> ) (DOI: 10.1109/TIM.2013.2259114; <b>ISSN:</b> 0018-9456; <b>e-ISSN:</b> 1557-9662)
[11].	<b>E. H. Krishna</b> , 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. of Multimedia Processing</i> . vol. 1, no.1, pp.54-60, March 2012. ( <b>ISSN:</b> 2251-6255; <b>e-ISSN:</b> 2423-4737)
[12].	K. Sharmila, <b>E. H. Krishna</b> and K. A. Reddy, "Rule based identification of cardiac arrhythmias from enhanced ECG signals using multi-scale PCA," <i>Signal Processing: An International Journal (SPLJ)</i> , vol. 7, no.2, pp. 117-130, Sept. 2013. ( <b>ISSN:</b> 1985-2339)
[13].	M. Raju, <b>E. H. Krishna</b> 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> , vol.9, issue-1, pp.28-34, January, 2017. ( <b>ISSN:</b> 2278-9510; <b>e-ISSN:</b> 0975-5462)
[14].	M. Raju, <b>E. H. Krishna</b> 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> , vol.9, issue-1, pp. 47-53, January, 2017. ( <b>ISSN:</b> 2278-9510; <b>e-ISSN:</b> 0975-5462)

### Publications in Refereed Conference Proceedings

S. No	Details
[1].	<b>E. H. Krishna</b> and K. A. Reddy, "On the use of Empirical Wavelet Transform for OFDM channel estimation," in <i>Proc. of 5<sup>th</sup> IEEE International Conference on Innovative Trends in Information Technology ICITIIT-2024</i> , Kottayam, Kerala, India, 15-16, March, 2024, pp. 1-4.
[2].	<b>E. H. Krishna</b> , K. Sivani and K. A. Reddy, "OFDM channel estimation using novel LMS adaptive algorithm," in <i>Proc. of IEEE International Conference on Computer, Communication &amp; Signal Processing ICCSP-2017</i> , Chennai, India, 10-11, January, 2017, pp. 1-5. (DOI: 10.1109/ICCCSP.2017.7944100; <b>Electronic ISBN:</b> 978-1-5090-3716-2)
[3].	<b>E. H. Krishna</b> , K. Sivani and K. A. Reddy, "OFDM channel estimation using tunable Q-factor wavelet transform," in <i>Proc. of 2016 International Conference on Control, Instrumentation, Communication &amp; Computational Technologies ICCICCT-2016</i> , Kanyakumari, India, 16-17, December, 2016, pp. 566-569. (DOI: 10.1109/ICCICCT.2016.7988014; <b>Electronic ISBN:</b> 978-1-5090-5240-0)
[4].	<b>E. H. Krishna</b> , 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</i>

	(WiSPNET), Chennai, India, 23-25, March, 2016, pp. 1616-1619. (DOI: 10.1109/WiSPNET.2016.7566411; <b>Electronic ISBN:</b> 978-1-4673-9338-6)
[5].	<b>E. H. Krishna</b> , K. Sivani and K. A. Reddy, "Performance evaluation of different PAPR reduction methods in OFDM Systems," in <i>Proc. of IEEE International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT)</i> , Chennai, India, 3-5, March, 2016, pp. 1821-1824. (DOI: 10.1109/ICEEOT.2016.7755002; <b>Electronic ISBN:</b> 978-1-4673-9939-5)
[6].	<b>E. H. Krishna</b> , 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 Systems(ICECS)</i> , Coimbatore, India, 25-26, Feb, 2016. (Accepted for Publication in IEEE explore)
[7].	<b>E. H. Krishna</b> , 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; <b>Electronic ISBN:</b> 978-1-4799-1823-2)
[8].	<b>E. H. Krishna</b> , 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/ICCCS.2015.7361131; <b>Electronic ISBN:</b> 978-1-4799-1819-5)
[9].	<b>E. H. Krishna</b> , 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)</i> , Warangal, India, 28-29, Mar, 2014, pp. 445-449.
[10].	<b>E. H. Krishna</b> , K. Sivani and K. A. Reddy, "On the use of singular spectrum analysis for OFDM channel estimation," in <i>Proc. of IEEE International Conference on Electronics and Communication Systems (ICECS)</i> , Coimbatore, India, 13-14, Feb, 2014, pp. 1-4. (DOI: 10.1109/ECS.2014.6892792; <b>Electronic ISBN:</b> 978-1-4799-2320-5)
[11].	<b>E. H. Krishna</b> , M. R. Ram, K. V. Madhav, K. Sivani and K. A. Reddy, "EMD based OFDM channel estimation," in <i>Proc. of 29<sup>th</sup> 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; <b>Electronic ISBN:</b> 978-1-4577-1772-7; <b>Print ISSN:</b> 1091-5281)
[12].	<b>E. H. Krishna</b> , 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 10<sup>th</sup> 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; <b>Electronic ISBN:</b> 978-1-4244-7167-6; <b>Print ISBN:</b>

	978-1-4244-7165-2)
[13].	<b>E. H. Krishna</b> , 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 &amp; Instrumentation, ASECI-2010</i> , 6-7, Jan 2010, Vijayawada, India, pp. 352-355.
[14].	<b>E. H. Krishna</b> , M. R. Ram, K. V. Madhav, K. N. Reddy, 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.
[15].	M. R. Ram, K. V. Madhav, <b>E. H. Krishna</b> and K. A. Reddy, "Motion Artifact Reduction in Photoplethysmographic Signals Using Improved ICA," in <i>Proc. of International Conference on Aerospace Electronics, Communications &amp; Instrumentation, ASECI-2010</i> , 6-7, Jan 2010, Vijayawada, India, pp. 194-197.
[16].	M. R. Ram, K. V. Madhav, <b>E. H. Krishna</b> and K. A. Reddy, "Evaluation of Wavelets for Reduction of Motion Artifacts in Photoplethysmographic signals," in <i>Proc. of 10<sup>th</sup> IEEE International Conference on Information sciences, Signal Processing and their Applications, Systems and Applications ISSPA-2010</i> , 11-13, May 2010, Kaulalumpur, Malaysia, pp. 460-463. (DOI : 10.1109/ISSPA.2010.5605443; <b>Electronic ISBN</b> : 978-1-4244-7167-6; <b>Print ISBN</b> : 978-1-4244-7165-2)
[17].	M. R. Ram, K. V. Madhav, <b>E. H. Krishna</b> and K. A. Reddy, "On the performance of wavelets in reducing motion artifact from photoplethysmographic signals," in <i>Proc. of 4<sup>th</sup> IEEE International Conference on Bioinformatics and Biomedical Engineering iCBBE-2010</i> , 18-20, June 2010, Chengdu, China, pp. 475-480. (DOI : 10.1109/ICBBE.2010.55516291; <b>ISBN</b> : 978-1-4244-4712-1; <b>Electronic ISSN</b> : 2151-7622; <b>Print ISSN</b> : 2151-7614)
[18].	M. R. Ram, K. V. Madhav, <b>E. H. Krishna</b> , 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 &amp; Sciences IECBES 2010</i> , Nov 30 to Dec 02 2010, Kaulalumpur, Malaysia, pp. 315-319. (DOI : 10.1109/IECBES.2010.5742252; <b>Electronic ISBN</b> : 978-1-4244-7600-8; <b>Print ISBN</b> : 978-1-4244-7599-5)
[19].	M. R. Ram, K. V. Madhav, <b>E. H. Krishna</b> , 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 &amp; Signal Processing ICCSP 2011</i> , 10-12 Feb, 2011, Calicut, India, pp.431-435. (DOI : 10.1109/ICCSP.2011.5739353; <b>Electronic ISBN</b> : 978-1-4244-9799-7; <b>Print ISBN</b> : 978-1-4244-9798-0)
[20].	M. R. Ram, K. V. Madhav, <b>E. H. Krishna</b> , K. N. Reddy and K. A. Reddy, "On the performance of AS-LMS based Adaptive Filter for Reduction of Motion Artifacts from

	<p>PPG Signals,” in <i>Proc. of 28<sup>th</sup> IEEE International Instrumentation and Measurement Technology Conf., I2MTC-2011</i>, Hangzhou, China, 10-12 May, 2011, pp. 1536-1539.</p> <p>(DOI: 10.1109/ IMTC.2011.5944259; <b>Electronic ISBN:</b> 978-1-4244-7935-1; <b>Print ISBN:</b> 978-1-4244-7933-7; Print ISSN: 1091-5281)</p>
[21].	<p>M. R. Ram, K. V. Madhav, <b>E. H. Krishna</b>, K. N. Reddy and K. A. Reddy, “Computation of SpO<sub>2</sub> 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</i>, Kumar coil, India, 21-22 July, 2011, pp. 776-780.</p> <p>(DOI: 10.1109/ ICSCCN.2011.6024656; <b>Electronic ISBN:</b> 978-1-61284-653-8; <b>Print ISBN:</b> 978-1-61284-654-5)</p>
[22].	<p>M. R. Ram, K. V. Madhav, <b>E. H. Krishna</b>, 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.</p> <p>(DOI: 10.1109/ RAICS.2011.6069348; <b>Electronic ISBN:</b> 978-1-4244-9477-4; <b>Print ISBN:</b> 978-1-4244-9478-1)</p>
[23].	<p>M. R. Ram, K. V. Madhav, <b>E. H. Krishna</b>, K. N. Reddy and K. A. Reddy, “Use of spectral estimation methods for Computation of SpO<sub>2</sub> from 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.</p> <p>(DOI: 10.1109/ RAICS.2011.6069349; <b>Electronic ISBN:</b> 978-1-4244-9477-4; <b>Print ISBN:</b> 978-1-4244-9478-1)</p>
[24].	<p>M. R. Ram, K. V. Madhav, <b>E. H. Krishna</b>, 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 29<sup>th</sup> IEEE International Instrumentation and Measurement Technology Conf., I2MTC-2012</i>, Graz, Austria, 13-16 May, 2012, pp. 1730-1734.</p> <p>(DOI: 10.1109/ IMTC.2012.6229404; ; <b>Electronic ISBN:</b> 978-1-4577-1772-7; <b>Print ISSN:</b> 1091-5281)</p>
[25].	<p>M. R. Ram, K. V. Madhav, <b>E. H. Krishna</b>, 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 7<sup>th</sup> IEEE International Symposium on Medical Measurements and Applications, MeMeA2012</i>, Budapest, Hungary, 18-19 May, 2012.</p> <p>(DOI: 10.1109/ MeMeA.2012.6226643; <b>Electronic ISBN:</b> 978-1-4673-0882-3; <b>Print ISBN:</b> 978-1-4673-0880-9)</p>
[26].	<p>M. R. Ram, K. V. Madhav, <b>E. H. Krishna</b>, 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.</p>
[27].	<p>K. V. Madhav, M. R. Ram, <b>E. H. Krishna</b> and K. A. Reddy, “On the Extraction of Respiratory Activity from Photoplethysmographic Signals,” in <i>Proc. of International Conference on Aerospace Electronics, Communications &amp; Instrumentation, ASECI-</i></p>

	2010, 6-7, Jan 2010, Vijayawada, India, pp. 367-370.
[28].	<p>K. V. Madhav, M. R. Ram, <b>E. H. Krishna</b> and K. A. Reddy, "A Model Based Method for Deriving Respiratory Activity from Photoplethysmographic signals," in <i>Proc. of 10<sup>th</sup> IEEE International Conference on Information sciences, Signal Processing and their Applications, Systems and Applications ISSPA-2010</i>, 11-13, May 2010, Kaulalumpur, Malaysia, pp. 312-315.</p> <p>(DOI : 10.1109/ISSPA.2010.5605464; <b>Electronic ISBN:</b> 978-1-4244-7167-6; <b>Print ISBN:</b> 978-1-4244-7165-2)</p>
[29].	<p>K. V. Madhav, M. R. Ram, <b>E. H. Krishna</b> and K. A. Reddy, "Monitoring respiratory activity using PPG signals by order reduced-modified covariance AR technique," in <i>Proc. of 4<sup>th</sup> IEEE International Conference on Bioinformatics and Biomedical Engineering iCBBE-2010</i>, 18-20, June 2010, Chengdu, China pp. 385-388.</p> <p>(DOI : 10.1109/ICBBE.2010.5516378; <b>ISBN:</b> 978-1-4244-4712-1; <b>Electronic ISSN:</b> 2151-7622; <b>Print ISSN:</b> 2151-7614)</p>
[30].	<p>K. V. Madhav, M. R. Ram, <b>E. H. Krishna</b>, 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.</p> <p>(DOI : 10.1109/CISP.2010.5647507; <b>Electronic ISBN:</b> 978-1-4244-6516-3; <b>Print ISBN:</b> 978-1-4244-6513-2)</p>
[31].	<p>K. V. Madhav, M. R. Ram, <b>E. H. Krishna</b>, 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 &amp; Sciences IECBES 2010</i>, Nov 30 to Dec 02, 2010, Kaulalumpur, Malaysia, pp. 311-314.</p> <p>(DOI : 10.1109/IECBES.2010.5742251; <b>Electronic ISBN:</b> 978-1-4244-7600-8; <b>Print ISBN:</b> 978-1-4244-7599-5)</p>
[32].	<p>K. V. Madhav, M. R. Ram, <b>E. H. Krishna</b>, 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 &amp; Signal Processing ICCSP 2011</i>, 10-12 Feb, 2011, Calicut, India, pp. 452-456.</p> <p>(DOI : 10.1109/ICCSP.2011.5739359; <b>Electronic ISBN:</b> 978-1-4244-9799-7; <b>Print ISBN:</b> 978-1-4244-9798-0)</p>
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[35].	<p>K. V. Madhav, M. R. Ram, <b>E. H. Krishna</b>, 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.  <b>(DOI:</b> 10.1109/ IMTC.2012.6229406; <b>Electronic ISBN:</b> 978-1-4577-1772-7; <b>Print ISSN:</b> 1091-5281)</p>
[36].	<p>K. V. Madhav, M. R. Ram, <b>E. H. Krishna</b>, 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.  <b>(DOI:</b> 10.1109/ MeMeA.2012.6226650; <b>Electronic ISBN:</b> 978-1-4673-0882-3; <b>Print ISBN:</b> 978-1-4673-0880-9)</p>
[37].	<p>K. V. Madhav, M. R. Ram, <b>E. H. Krishna</b>, 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.</p>
[38].	<p>K. V. Madhav, <b>E. H. Krishna</b> 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)</p>
[39].	<p>K. V. Madhav, <b>E. H. Krishna</b> and K. A. Reddy, "Extraction of Surrogate Respiratory Activity from Pulse Oximeter Signals using SSA," in <i>Proc. of IEEE International Conference on Electrical, Electronics &amp; Optimization Techniques (ICEEOT 2016)</i>, DMI college of Engineering, Chennai, India, 3-5 March, 2016.  <b>(DOI:</b> 10.1109/ICEEOT.2016.7754979; <b>Electronic ISBN:</b> 978-1-4673-9939-5)</p>
[40].	<p>K. V. Madhav, <b>E. H. Krishna</b>, 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.  <b>(DOI:</b> 10.1109/WiSPNET.2016.7566248; <b>Electronic ISBN:</b> 978-1-4673-9338-6)</p>
[41].	<p>K. V. Madhav, <b>E. H. Krishna</b>, and K. A. Reddy, "Extraction of Respiratory Activity from PPG Signals using an Adaptive Fourier Coefficient Estimator," in <i>Proc. 2016 IEEE International Conference on Control, Instrumentation, Communication &amp; Computational Technologies, ICCICCT-2016</i>, Kanyakumari, India, 16-17, December, 2016.  <b>(DOI:</b> 10.1109/ICCICCT.2016.7987991; <b>Electronic ISBN:</b> 978-1-5090-5240-0)</p>
[42].	<p>K. V. Madhav, <b>E. H. Krishna</b>, 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</i></p>

	(ICCCSP), Chennai, India, 10-11, January, 2017. (DOI: 10.1109/ICCCSP.2017.7944095; <b>Electronic ISBN:</b> 978-1-5090-3716-2)
[43].	K. Sharmila, <b>E. H. Krishna</b> , K. N. Reddy and K. A. Reddy, "Application of Multiscale Principal Component Analysis (MSPCA) for enhancement of ECG signals," in <i>Proc. of 28<sup>th</sup> IEEE International Instrumentation and Measurement Technology Conf., I<sup>2</sup>MTC-2011</i> , Hangzhou, China, 10-12 May, 2011, pp. 1540-1544. (DOI: 10.1109/ IMTC.2011.5944301; <b>Electronic ISBN:</b> 978-1-4244-7935-1; <b>Print ISBN:</b> 978-1-4244-7933-7; <b>Print ISSN:</b> 1091-5281)
[44].	K. Sharmila, <b>E. H. Krishna</b> , K. N. Reddy and K. A. Reddy, "Use of higher order spectral analysis for the identification of sudden cardiac death," in <i>Proc. of 7<sup>th</sup> IEEE International Symposium on Medical Measurements and Applications, MeMeA2012</i> , Budapest, Hungary, 18-19 May, 2012. (DOI: 10.1109/ MeMeA.2012.6226674; <b>Electronic ISBN:</b> 978-1-4673-0882-3; <b>Print ISBN:</b> 978-1-4673-0880-9)
[45].	K. Sharmila, <b>E. H. Krishna</b> , 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; <b>Electronic ISBN:</b> 978-1-4673-5758-6; <b>Print ISBN:</b> 978-1-4673-5759-3)
[46].	V. Sharmila, <b>E. H. Krishna</b> , 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. (DOI:10.1109/ICACCI.2013.6637482; <b>Electronic ISBN:</b> 978-1-4673-6217-7; <b>Print ISBN:</b> 978-1-4799-2432-5)
[47].	K. P. Chander, T. Satya savithri, B. Narsimha and <b>E. H. Krishna</b> "Enhancement of color images by scaling Hirschman Transform coefficients" <i>5<sup>th</sup> International Conference on Industrial and Information Systems, ICIIS 2010</i> , India, pp. 292-296. (DOI: 10.1109/ICIINFS.2010.5578692; <b>Electronic ISBN:</b> 978-1-4244-6653-5; <b>Print ISBN:</b> 978-1-4244-6651-1; <b>Print ISSN:</b> 2164-7011)
<b>DETAILS OF BOOKS / BOOK CHAPTERS AUTHORED (OR) CO-AUTHORED</b>	
[1].	<b>E. H. Krishna</b> and K. A. Reddy, "Use of transforms in biomedical signal processing and analysis," in Dr. Juan Manuel Velazquez Arcos, <i>Real perspective of Fourier Transforms</i> , Intech open, May 2021. ( <b>Book Chapter</b> ) (ISBN: 978-1-83962-398-1)
[2].	<b>E. H. Krishna</b> , K. Sivani and K. A. Reddy, "OFDM Transceiver Using Hirschman Optimal Transform", Elsevier Science & Technology. ( <b>Book Chapter</b> ) (ISBN: 978-935-107-228-7)
[3].	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 *Narosa Publishing House Pvt. Ltd.*, 2012, India. (**Book Chapter**) (ISBN: 978-81-8487-160-9)

### Google Scholar Citation:

[https://scholar.google.com/citations?view\\_op=list\\_works&hl=en&hl=en&user=jr3HyrEAAAJ&pagesize=80](https://scholar.google.com/citations?view_op=list_works&hl=en&hl=en&user=jr3HyrEAAAJ&pagesize=80)

<https://orcid.org/0000-0001-6668-7245>

Researcher ID: O-9100-2015

### Awards and Honours

S. No.	Award Name	Year
[1].	Outstanding Contribution in Reviewing - <b>Elsevier AEU International Journal of Electronics and Communications</b>	2018
[2].	Rotary club of Kakatiya, Hanamkonda, <b>Nation Builder Award 2016 and best teacher</b> on 5th September 2016.	2016

### Details of FDP/Workshop organized

S. No.	Sponsor	Name of the FDP/ Workshop	Duration
[1].	AICTE ATAL Sponsored online FDP	Challenges in capstone of 5G and Artificial Intelligence (C <sup>2</sup> 5GAI)	5 <sup>th</sup> October to 9 <sup>th</sup> October 2020

### FOREIGN VISITS

S. No.	Place of visit	Purpose of visit	Name of Event	Duration
[1].	Kaulalumpur, Malaysia	Paper Presentation	<i>IEEE EMBS International Conference on Biomedical Engineering &amp; Sciences IECBES 2010</i>	Nov 30 to Dec 02, 2010
[2].	Hangzhou, China	Paper Presentation	<i>28<sup>th</sup> IEEE International Instrumentation and Measurement Technology Conf., I<sup>2</sup>MTC-2011</i>	10-12 May, 2011
[3].	Graz, Austria	Paper Presentation	<i>29<sup>th</sup> IEEE International Instrumentation and Measurement Technology Conference, I<sup>2</sup>MTC-2012</i>	12-17 May, 2012
[4].	Budapest, Hungary	Paper Presentation	<i>IEEE International Symposium on Medical Measurements and Applications, MeMeA 2012</i>	18-19 May, 2012

### PROFESSIONAL AFFILIATION

S. No	Details
1.	Member – Institute of Electrical and Electronics Engineers (IEEE – 91235689)
2.	Member – IETE-AM 189173

S. No.	Title of the talk	Name of the Programme
1.	Fundamentals of Digital Communication systems	APSCHE Sponsored Training Programme on “ <i>Microprocessors, Microcontrollers and Digital Communications</i> ” to the PG teachers during 13 <sup>th</sup> -17 <sup>th</sup> July 2010 at department of Physics, Kakatiya University, Warangal
2.	Use of MATLAB in Digital Signal Processing	Faculty Development Programme on <i>DSP &amp; Its Applications (DSPA)</i> , 8-9, February 2013, organized by department of Electronics & Instrumentation Engineering, KITS Warangal in Association with IETE Warangal Center.
3.	Talk on ‘ <b>Adaptive Signal Processing in Communications</b> ’ dated <b>22-12-2016</b>	IETE National level FDP on “ <i>Signal processing and its applications</i> ” 19 <sup>th</sup> December to 23 <sup>rd</sup> December 2017 organized by Department of Electronics & Communication Engineering, KITS Huzurabad.
4.	Talk on ‘ <b>Channel estimation techniques for OFDM</b> ’ dated <b>06-12-2017 &amp; 07-12-2017</b>	AICTE Sponsored FDP on “ <i>Hands on Approach of OFDM system designing in MATLAB</i> ” 27 <sup>th</sup> November to 8 <sup>th</sup> December 2017 organized by Department of Electronics & Communication Engineering, KITS Warangal.
5.	Talk on ‘ <b>MATLAB Tool</b> ’ dated <b>25-05-2018</b>	DST SERB Sponsored one week seminar on “ <i>Emerging trends in Wireless Networking</i> ” 21 <sup>st</sup> May to 25 <sup>th</sup> May 2018 organized by Department of Information Technology, KITS Warangal.
6.	10 <sup>th</sup> May 2019	Key note speaker at the International Conference on Research Trends in Science, Technology, Engineering & Management (ICRSTEM-2019) during 10 <sup>th</sup> to 12 <sup>th</sup> May 2019.
7.	Talk on ‘ <b>Channel estimation techniques for 4G and 5G wireless communications</b> ’ dated <b>06-11-2020, 18-12-2020, 19-01-2021</b>	<b>AICTE Sanctioned STTP on Hands on Project Based Approach of 5G system designing in MATLAB (Virtual) Duration: 1 week ( Online - 3 Phases) (Nov 02-07, 2020; Dec 14-19, 2020; and Jan 18-23, 2021), organized by Department of ECE, Venue: KITS, Warangal</b>
8.	Talk on ‘ <b>Real time perspectives of Wavelet transform in analysis of Biomedical Signals</b> ’ dated <b>06-01-2021, 08-02-2021</b>	<b>AICTE Sanctioned FDP on Hands on Project Based Approach of Biomedical Signal Analysis using MATLAB (Virtual), Duration: 2 weeks (Online - 2 Phases) (Dec 28, 2020- Jan 1, 2021; and Feb 01-13, 2021) organized by Department of ECE, Venue: KITS, Warangal</b>

9.	Talk on 'Time-Frequency Analysis & ML techniques for Biomedical Signals' dated 30-06-2022	<b>Ministry of Electronics and Information Technology (MeitY)</b> , sponsored online faculty development program (FDP) on "AI & Machine Learning for Biomedical signal and Image Analysis" during 27 <sup>th</sup> June to 6 <sup>th</sup> July 2022 organized by <b>E &amp; ICT Academy, NIT Warangal</b> in association with KITS Warangal.
10.	Talk on 'MATLAB for Engineering Applications' dated 28 <sup>th</sup> October 2023.	A 3 day workshop on Matlab and 3D printing applications in Engineering, Organized by Department of ECE and ME, KU College of Engineering & Technology, KU Campus, Warangal during 27 <sup>th</sup> -29 <sup>th</sup> October 2023
11.	Talk on 'Hypotheses Testing: Parametric' dated 6 <sup>th</sup> August 2024	Research methodology workshop organized by Faculty of Engineering & Technology, Kakatiya University, Warangal during 5 <sup>th</sup> to 9 <sup>th</sup> August 2024 for all newly admitted PhD scholars
12.	Talk on 'Non-parametric Hypotheses Testing' dated 7 <sup>th</sup> August 2024	

<b>SWAYAM NPTEL ONLINE COURSES - COMPLETED</b>				
<b>S. No</b>	<b>Course Title</b>	<b>Details</b>		
		<b>Duration</b>	<b>During</b>	<b>Result</b>
1	NPTEL "Applied optimization for Wireless, Machine Learning and Big data,"	12 weeks	July-Oct 2023	<b>Elite + Gold (97%) Course Topper</b>
2	NPTEL "Applied Linear Algebra for Signal Processing, Data Analytics and Machine Learning" IIT Kharagpur	12 weeks	Jan-Apr, 2021	Elite + Silver (81%)
3	NPTEL "Digital Signal Processing" IIT Madras	12 weeks	July-Oct, 2019	Elite (64%)
4	SWAYAM ARPIT "Refresher Course on Teacher and Teaching in Higher Education" Savitribai Phule Pune University	16 weeks	1 <sup>st</sup> Sep 2019 to 31 <sup>st</sup> Dec, 2019	Grade B (69%)

5	SWAYAM ARPIT "Leadership And Governance In Higher Education. Level 2" Refresher Course on Teacher and Teaching in Higher Education" Savitribai Phule Pune University	16 weeks	1 <sup>st</sup> Dec 2020 to 31 <sup>st</sup> Mar, 2021	Grade B (65%)
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### Positions Held in College

Designation	College	Date of actual joining	
		From	To
Project Co-coordinator for B. Tech.	Kakatiya Institute of Technology & Science, Warangal.	15-06-2006	30-04-2007
In charge Head of ECE	KU College of Engineering & Technology, KU Campus, Warangal	09-08-2011	30-04-2014
In charge Examination		09-10-2011	30-04-2014
In charge Head of ECE	University College of Engineering & Technology for Women, KU Campus, Warangal	02-06-2014	08-09-2015
In charge Examination		02-06-2014	08-09-2015
In charge Library	University College of Engineering, KU, Kothagudem	09-12-2016	23-01-2023
Chairperson, Board of Studies in ECE, E&I Engineering	Kakatiya University Warangal	Dec 2020	Jan 2023
In charge Examination	University College of Engineering, KU, Kothagudem	10-11-2022	Till date

### Academics:

- Co-ordinator, ELECTROCOM-2007, national level technical symposium, held in Department of Electronics & Communication Engineering, Kakatiya Institute of Technology & Science, Warangal.
- Convener, KLIEO'12, KLIEO'14, national level technical symposium, held at KU College of Engineering & Technology, Kakatiya University Campus, and Warangal.
- Developed laboratories at initial levels in KU College of Engineering & Technology, University College of Engineering & Technology for Women, KU Campus, and Warangal.
- Organized a seminar for the benefit of students of EEE, ECE branches, MATLAB for Engineers at University College of Engineering & Technology for Women, KU Campus, and Warangal.

- Delivered guest lectures in various engineering colleges in and around Warangal in AICTE and DST funded FDP/Workshop.
- Reviewer of IEEE Sensors Journal, IET Signal Processing, Elsevier Biomedical Signal Processing and Control, Elsevier Signal Processing Elsevier AEU International Journal of Electronics & Communications Engineering, Springer Wireless Personal Communications, Australian Journal of Electrical and Electronics Engineering
- Reviewer and Technical Program committee of Various IEEE International Conferences.
- Reviewer of best inspiring minds project of National Innovation Foundation, (INSPIRE- MANAK), Government of India for the year 2021, 2022 and 2023.

**(Dr. E. Hari Krishna)**