

## RESUME

Name : **Dr. E V KRISHNA RAO**  
 Date of Birth : 31.07.1966  
 Father's Name : E Nancharaiah  
 Designation : **Professor ECE and Dean of Academics**  
 Nationality : Indian  
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## Qualifications

Exam Passed	Board/University	Year of Passing	Specialisation	Class
<b>B.Tech</b>	Nagarjuna University	1988	Electronics & Communication	First
<b>M.Tech</b>	University of Delhi South Campus	1991	Microwave Electronics	First
<b>Ph D</b>	J N T U	2007	Speech Processing (DSP)	---

## Employment record

**Total Experience : More than 20 Years**

- Working as Professor of ECE and Dean of Academics at Andhra Loyola Institute of Engineering and Technology, Vijayawada from **4<sup>th</sup> May 2012**.
- Worked as Professor and Head at Sir C R Reddy College of Engineering, Eluru from **24<sup>th</sup> Oct 2011 to 3<sup>rd</sup> May 2012**.
- Worked as a **Principal** at Sri Mittapalli College of Engineering, Guntur,A.P from **4<sup>th</sup> Sept. 2008 to 24<sup>th</sup> Sept 2011**.
- Worked as a **Principal** at Sri Mittapalli Institute of Technology for Women (SMITW), Guntur from **1<sup>st</sup> May 2008 to 3<sup>rd</sup> Sept. 2008**.
- Worked as **Professor** in the Department of ECE at L B R College of Engineering, Mylavaram from **Sept. 2006 to April 2008**.
- Worked as an **Asst. Professor (Reader)** in the Department of ECE at V R Siddhartha Engineering College, Vijayawada from **June 1999 to August 2006**.
- Worked as a **lecturer** in the Department of ECE at V R Siddhartha Engineering College, Vijayawada from **February 1992 to May 1999**.

\_\* Done the M Tech Project at **Space Applications Center**, Ahemadabad for 6 months

**Guiding PhD Scholars : 7**

**Publications**

**No. of International Journals : 8**

**No. of National Journals : 1**

**International Book Chapter : 1**

**No. of International Conferences : 13**

**No. of National Conferences : 18**

## Research Area : Signal Processing, Communications

### a) International Journals

1. E V Krishna Rao, P G Krishna Mohan, P V Subbaiah and N V N Prathyusha, 'Efficient Vector Quantization of LSF Parameters', **World Scientific Engineering Academy and Society (WSEAS) Transactions on Systems** March 2005, pp. 206-211.
2. E V Krishna Rao, P G Krishna Mohan and P V Subbaiah, 'Performance Comparison of The Split Vector Quantization of Speech LSF Parameters Using Variable Length Codebook', **WSEAS Transactions on Acoustics Music Theory and Applications**, January 2005, pp. 17-21.
3. EV Krishna Rao, Dr PG Krishna Mohan and Dr PV Subbaiah , "Performance of the Split Vector Quantization of Speech Line Spectral Frequencies", **International Journal on Systemics, Cybernetics and Informatics(IJSCI)**,Hyderabad, Jan. 2006, pp. 87-90.
4. K. Padma Vasavi, N. Udaya Kumar, Dr. E. V. Krishna Rao, Dr. M. Madhavi Latha "Performance Evaluation of Adaptive Statistical Thresholding in Edge Detection using GLCM in wavelet Domain under Noisy Conditions", **ICGST- GVIP Journal**, pp 35-44, Volume 10, issue 3, August 2010
5. J.Ravindrababu, P.Venumadhav, and Dr.E.V.Krishna Rao "Adaptive DS-CDMA Receiver with code tracking (BPSK) in phase unknown Environment". **International Journal of Technology and engineering System**, volume 1, number 1, ISSN: 0976-269X, January - June 2010.
6. J.Ravindrababu, P.Venumadhav, and Dr.E.V.Krishna Rao " PERFORMANCE ANALYSIS OF COHERENT AND NONCOHERENT MMSE INTERFERENCE SUPPRESSION FOR DS-CDMA" **International Journal Of Advanced Engineering Sciences And Technologies (IJAEST)** Vol No. 8, Issue No. 2, pp--238 – 242, ISSN: 2230-7818
7. J.Ravindrababu, Dr.E.V.Krishna Rao,"Performance Analysis and Comparison of Linear Multi-user Detectors in DS-CDMA System" has accepted for publication in **International Journal of Electronics and Communication Engineering & Technology (IJECET)**, Volume 3 Issue 1 January-June (2012), pp.229-243, Impact Factor 3.593
8. B.Alekya, J.Ravindrababu, D.Swathi, Dr.E.V.Krishna Rao, Performance of Parallel Interference Cancellation Technique in Multistage Multiuser Detection for DS-CDMA System, **International Journal of Engineering Research and Applications (IJERA)**, Vol. 2, Issue 3, May-Jun 2012, pp.1983-1987

### b)National Journal

- 1.J.Ravindrababu, P.Venumadhav, and Dr.E.V.Krishna Rao "Low Complexity Multi-user detection in DS-CDMA Using DFE ". **i-manager's Journal on Electronics Engineering (JELE)** Vol.1,No.3 pp—10-13, ISSN :2229-7286, March – May'2011,

### Book Chapter

1. K. Padma Vasavi, Dr. E. V. Krishna Rao, N. Udaya Kumar, Dr. M. Madhavi Latha, "Combining Multi Scale and Multi Direction Analysis in Edge Detection Using Statistical Thresholding", book chapter in the research book titled "Intelligent Automation and Systems Engineering", pp.325-328 published by **Springer**.

### c) International Conferences

1. EV Krishna Rao, Dr PG Krishna Mohan and Dr PV Subbaiah , "Multi-Channel Filter

- Bank for Speech Signal Compression Using LPC Parameters”, International Conference on Systemics, Cybernetics and Informatics(**ICSCI-2004**), Pentagon Research Centre Pvt. Ltd., Hyderabad, Feb. 2004, pp.411-414.
2. EV Krishna Rao, PG Krishna Mohan, Dr PV Subbaiah and Ms NVN Prathyusha “Efficient Vector Quantization of LSF Parameters”, International Association Science and Technology Development (**IATED**) Conference CIIT- 2004 at US Virgin, USA held on 22-24 Nov.2004.
  3. EV Krishna Rao, Dr PG Krishna Mohan and Dr PV Subbaiah, “Efficient Split Vector Quantization of LSF Parameters”, International Conference on Bio Medical Electronics and Telecommunication (BET-04), **Andhra University**, 9-10 Dec. 2004, pp.260-266.
  4. EV Krishna Rao, Dr PG Krishna Mohan and Dr PV Subbaiah, “Performance of Split Vector Quantization of Speech LSF Parameters” International Conference on Human Machine Interfaces (**ICHMI-2004**), organized by JNN College of Engg, **Shimoga** held at IISc, Bangalore, 20-23 Dec. 2004, pp.341-349.
  5. G Vijay Kumar, GN Swamy and EV Krishna Rao, “Enhancing Secure by Seamless Roaming Using 802.11I Networks, International Conference on Human Machines Interface - **ICHMI-2004**, organized by JNN College of Engg **Shimoga** held at IISc, Bangalore, 20-23 Dec. 2004.
  6. EV Krishna Rao, Dr PG Krishna Mohan and Dr PV Subbaiah , “Performance of the Split Vector Quantization of Speech Line Spectral Frequencies”, International Conference on Systemics, Cybernetics and Informatics(**ICSCI-2005**), Pentagon Research Centre Pvt. Ltd., Hyderabad, 6-9 Jan. 2005, pp.362-365.
  7. Ms S Anuradha, Ms M Padmaja and EV Krishna Rao “Multicarrier DS-CDMA -Review”, International Conference on Systemics, Cybernetics and Informatics(**ICSCI-2005**), Pentagon Research Centre, Hyderabad, 6-9 Jan. 2005.
  8. M Padmaja & EV Krishna Rao, **Harmonic coding of speech signals** at International Conference on Systematics, Cybernetics and Informatics, **ICSCI- 2007**, organized by Pentagon Research Center, Hyderabad, Jan 3-7, 2007.
- Awarded Best paper in the session.**
9. M Padmaja, A Jhansi Rani, EV Krishna Rao, **Image compression using Nonlinear Prediction** at 2<sup>nd</sup> International Conference on Advanced Computing and communication Technologies, ICACCT-2007, APIIT SD India 03-04, Nov, 2007.
  - 10.K. Padma Vasavi, N. Udaya Kumar, Dr. E. V. Krishna Rao, Dr. M. Madhavi Latha “Adaptive Statistical Thresholding in Edge Detection using GLCM in wavelet Domain”, International Conference on Recent Advances in Communication Engineering (RACE-08) , Osmania University, Hyderabad, December 2008
  - 11.K. Padma Vasavi, N. Udaya Kumar, Dr. E. V. Krishna Rao, Dr. M. Madhavi Latha “A Novel Statistical Thresholding In Edge Detection Using Laplacian Pyramid And Directional Filter Banks”, ICSPiE 2010, 20-22 October, 2010, San Francisco, USA.
  - 12.K. Padma Vasavi, Dr.E. V. Krishna Rao, Dr.M. Madhavi Latha and N. Udaya Kumar “A New Bone Reposition Detection Scheme for Periapical Lesion Treatment in Dentistry”, International Conference on Image Processing, Computer Vision, & Pattern Recognition(IPCV'11:July18-21,2011,USA) pp. 258-263.
  - 13.J Ravindrababu, P Venumadhav, Dr E V Krishna Rao, “BER Performance of Multi-User MC-DS-CDMA Using Spreading Codes in fading Channels”,IEEE International Conference on Computational Intelligence and Computing Research (**IEEE ICCIC**) Kanyakumari, Dec 15-18,2011

#### d) National Conferences

1. Dr. P G Krishna Mohan, E V Krishna Rao, Dr. P V Subbaiah, ‘The Present and Future Trends in Multimedia Signal Processing’, FUTURISTIC Approach for Communication Technologies (FACT-2K) Organized by Andhra University, Visakhapatnam on 25<sup>th</sup> and 26<sup>th</sup> February 2000, pp. 135-139.

2. E V Krishna Rao, Dr. P V Subbaiah, Dr. P G Krishna Mohan, 'Audiovisual Objects for Multimedia Applications', IETE Zonal Seminar on Information Technology and E - Commerce Organized by IETE Rajasthan Local Center on 22<sup>nd</sup> April 2000, pp. 28-30.
3. E V Krishna Rao, Dr. P V Subbaiah, Dr. P G Krishna Mohan, 'E-Commerce Through Internet', IETE Zonal Seminar on Role of E-Commerce in Accelerating Societal Transformation (RECAST) scheduled by IETE Visakhapatnam Local Center on 22-23<sup>rd</sup> Dec,2000.
4. E V Krishna Rao, Dr. P V Subbaiah, Dr. P G Krishna Mohan, 'Digital Signatures', IETE Zonal Seminar on Role of E-Commerce in Accelerating Societal Transformation (RECAST) scheduled by IETE Visakhapatnam Local Center on 22-23<sup>rd</sup> Dec,2000.
5. E V Krishna Rao, Dr. P V Subbaiah, Dr. P G Krishna Mohan, 'LPC Speech Coding - Survey', National Level Conference on Signals and Systems and Security (NCSSSS) organised by PSG College of Technology, **Coimbatore** on 1-2 March, 2002.
6. E V Krishna Rao, P G Krishna Mohan and P V Subbaiah, 'Performance Comparison of The Raw-Hit Split Vector Quantization of Speech LSF Parameters', National Conference on Signal Processing and Communications (**SPCOM-2005**), SNIST, Hyderabad, 5-6 Dec 2005, pp.72-76.
7. M Padmaja, EV Krishna Rao, A Jhansi Rani, **Performance of LSE Algorithm in Pilot Assisted OFDM Channel Estimation** at National Conference on Advanced Communication Technologies organized by V R Siddhartha Engg. College, Vijayawada on 29<sup>th</sup> Feb, 2008
8. A Jhansi Rani, M Padmaja, EV Krishna Rao, **Design and implementation of Multi-drop system** at National Conference on Advanced Communication Technologies organized by V R Siddhartha Engg. College, Vijayawada on 29<sup>th</sup> Feb, 2008
9. N Uday Kumar, K Padmavasavi E V Krishna Rao, M Madhaviatha **An Overview on Image Compression using Wavelet Transforms** at National Symposium on Advanced Communication Technologies organized by V R Siddhartha Engg. College, Vijayawada on 30<sup>th</sup> Jan, 2009
10. J Ravindra Babu, EV Krishna Rao, A Jhansi Rani, M Padmaja Performance Analysis of Adaptive Linear Multiuser Detection in CDMA Systems at National Symposium on Advanced Communication Technologies organized by V R Siddhartha Engg. College, Vijayawada on 30<sup>th</sup> Jan, 2009
11. N. Udaya Kumar, K. Padma Vasavi, Dr.E. V. Krishna Rao, Dr.M. Madhavi Latha "An Overview of Image Compression", National Symposium on Advanced Communications and Technology (NSACT-09), February 2009
12. J.Ravindrababu, P.Venumadhav and Dr.E.V.Krishna Rao "Implementation of Call Processing Using DS-CDMA" National conference on Advances in Recent Trends in communication and Networks (ARTCON 2010), January 15-16,2010,Organized by Department of Electronics & Telecommunication Anna saheb dange college of engineering and technology,Ashta.
13. J.Ravindrababu, P.Venumadhav and Dr.E.V.Krishna Rao "Evaluation of performance in Wide Band CDMA" National conference on Emerging Trends in Electronics & communication Feb 6<sup>th</sup> 2010, Jointly organized by the Department of Electronics & communication Engineering and,Electronics & instrumentation Engineering, St.Ann's college of engineering & technology, Chirala, Andhra Pradesh.
14. J.Ravindrababu, P.Venumadhav, and Dr.E.V.Krishna Rao "PERFORMANCE OF MULTIUSER DETECTION IN DS- CDMA FOR AN ULTRA-WIDE-BAND" National conference on Emerging Trends in Electronics Engineering and Computing E<sup>3</sup>C 2010, 9<sup>th</sup> & 10<sup>th</sup> February,2010. Technically Co-sponsored by Computer Society of India (CSI) & IETE, Organized by Department of Computer Science & Engineering and electronics Engineering, JD College of Engineering , Nagpur (MS).
15. J.Ravindrababu, P.Venumadhav, and Dr.E.V.Krishna Rao "Evaluate the performance of Adaptive DS-CDMA Receiver for Multiuser Detection" National conference on Signal Processing and Communication Systems ( NCSPCS -2010), February 25<sup>th</sup> and 26<sup>th</sup> ,2010,

Organised by Department of Electronics & communication Engineering, R.V.R & J.C. College of Engineering, Chandramoulipuram, Chowdavaram, Guntur.

16. J.Ravindrababu, P.Venumadhav, and Dr.E.V.Krishna Rao "Performance Evaluation of Multi-Carrier DS-CDMA Systems" DRDO Sponsored National Level conference on Wireless Technologies for Urban Security ( NCWTUS -2010), April 9<sup>th</sup> and 10<sup>th</sup> ,2010, Organized by Department of Computer Science & Engineering, Sri Venkateswara college of engineering and technology , Chittoor.
17. J.Ravindrababu, P.Venumadhav, and Dr.E.V.Krishna Rao "Estimating the channel impulse response , Activity threshold detection using LMS Algorithm in DS-CDMA" National conference on Signals, Systems and Communication ( NCSSC -2011), April 29<sup>th</sup> , 2011, Organized by Department of Electronics & communication Engineering, SKR Engineering College, Agarmel, Poonamallee, Chennai.
18. J.Ravindrababu, P.Venumadhav, and Dr.E.V.Krishna Rao "BER Performance of BPSK and QAM Techniques for Multiuser Detection in DS-CDMA using PDA Algorithm. " National conference on Signal processing, Communications and VLSI Design ( NCSCV -2011), May 6<sup>th</sup> and 7<sup>th</sup> , 2011, Organized by Department of Electronics & communication Engineering, Anna University of Technology, Coimbatore, IEEE Madras Section.

### Conferences, Short term courses Participated

1. AICTE Sponsored Induction Training Programme in Engineering during 18<sup>th</sup> May to 7<sup>th</sup> June, 1999 (3 Weeks) organised by Academic Staff College, **Pondicherry**.
2. Zonal Seminar on 'Convergence of Computers and Communication for Information Revolution' on 9<sup>th</sup> and 10<sup>th</sup> May, 1998 organized by IETE Sub-Centre, **Mysore**.
3. 'National Workshop on Object-Oriented Computing' on 22<sup>nd</sup> and 23<sup>rd</sup> February, 1995 organized by Siddhartha Academy of General and Technical Education, **Vijayawada**.
4. ISTE-AICTE sponsored Summer School on '**Wavelets and Applications in Digital Signal Processing**' during 16<sup>th</sup> to 27<sup>th</sup> July 2001 at **Calicut REC, Calicut(Kozhikode)**.
5. ISTE-AICTE sponsored Winter School on '**Signal Compression and Applications**' during 6<sup>th</sup> to 17<sup>th</sup> January 2003 at **NIT, Calicut(Kozhikode)**.
6. 'National Workshop on **Image and Signal Processing**', on 26-28 February, 2006 organized by **IIT Madras**.
7. Winter school on '**Speech and Audio Coding**' during 10<sup>th</sup> -13<sup>th</sup> Jan. 2007 at **Indian Institute of Science (IISc), Bangalore**.

### Membership of academic body and Professional Societies

MISTE, FIETE, MIE

### Other Activities held

- A **Guest Lecture** was delivered on **Speech Coding** at IETE Vijayawada Center on 25<sup>th</sup> March 2007.
- A **Expert Lecture** was delivered on **Adaptive Modulation Techniques** at **National Level Workshop on Adaptive Signal Processing and Applications** held on 27-28<sup>th</sup> October, 2007.
- **Coordinator for National Level Workshop on Adaptive Signal Processing and Applications** held on 27-28<sup>th</sup> October, 2007 at L B R College of Engineering, Mylavaram.
- **Coordinator of IETE Student Forum at LBRCE**
- **Faculty Advisor of Departmental Student Association at VRSEC**
- **In-charge of Time Tables at VRSEC**