



## Dr S.Srinivasa Rao

B.Tech, M.Tech, Ph.D(JNTUH), MIEEE, MISTE, MIETE

**Principal**

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### ACADEMIC PROFILE:

Degree	Specialization	University/College	Supervisors	% of Marks	Year of completion
Ph.D	ECE	JNTU Hyderabad	Dr K Lal Kishore Dr E G Rajan	---	May, 2013
M.Tech	DSCE	JNTU Hyderabad	Dr M.Madhavilatha	82 %	Nov, 2004
B.Tech	ECE	Madras Institute of Technology, Anna University	Dr C N Krishnan	68.25%	June, 1989
B.Sc	Physics	Nagarjuna University	---	83.25%	June, 1986
Inter	M.P.C	BIE, Hyderabad, A.P	---	72.6 %	June,1983
S.S.C	---	BSE, Hyderabad, A.P	---	70.6 %	June, 1981

### ACADEMIC ACHIEVEMENTS:

- ❖ Secured University Fourth Rank in B Sc
- ❖ Selected for National Merit Scholarship
- ❖ Secured University Second Rank in M Tech
- ❖ Qualified ASOC, Government of India, Amateur Section, W.P.C. Wing, Ministry of Communications & IT, New Delhi

### EMPLOYMENT DETAILS:

#### SUMMARY OF EMPLOYMENT RECORD

24 years of Teaching Experience  
(16 years in Engineering colleges, 8 years in Industrial training institutes)  
1 year of Industrial Experience

## PAPERS PUBLISHED IN NATIONAL/ INTERNATIONAL JOURNALS:

\*1+ R Chinna Rao, Dr S.Srinivasa Rao, Dr VSK Reddy, "Significance of Vocoders in Mobile Communication", International Journal on Computing, Communications and Systems (IJCCS), ISSN: 2277-6699, Volume 4, Issue 1, February 2015

\*2+ P Venkatapathi, Dr S.Srinivasa Rao, "Analysis of Spectrum Sensing Algorithms for Improvement of Performance in Cognitive Radio", International Journal on Computing, Communications and Systems (IJCCS), ISSN: 2277-6699, Volume 4, Issue 1, February 2015

\*3+ Ch Shalini, Dr S.Srinivasa Rao, "Design and Simulation of Cordic Co-Processor In Xilinx Vertex 4 and Its Applications in Avionics" International Journal on Computing, Communications and Systems (IJCCS), ISSN: 2277-6699, Volume 4, Issue 1, February 2015

[4]. Syeda Wajida Tabassum, Dr. S. Srinivasa Rao, "Improved Security Copy Right Protection By Watermarking Technique Using FPGA", International Journal of Engineering & Science Research, ISSN 2277-2685, IJESR/October 2014/ Vol-4/Issue-10/677-681.

[5+. S. Srinivasa Rao, A.V.Narasimha Rao, M. Ramanjaneyulu, "Improvement of Sensing Capability in Femto Cells using NLM", International Research Journal Sustainable Science Engineering (IRJSSE), Volume 2, Issue 2, Feb 2014, ISSN: 2347- 6176.

[6]. S. Srinivasa Rao, E G Rajan, K Lalkishore, "Human Activity Tracking using RFID Tags", International Journal of Computing Science and network Security, (IJCSNS), Jan 2009, Vol 9.No.1., Pg No: 387-394.

[7]. S. Srinivasa Rao, E G Rajan, K Lalkishore, "Performance Analysis of ASAF Aloha Protocol for Dense RFID Systems", International Journal of Systematics, Cybernetics and Informatics (IJSCI), April 2010 pg Nos: 020-026, ISSN 0973-4864.

[8]. S. Srinivasa Rao, E G Rajan, K Lalkishore, "ASAF-A MAC Protocol for Human Identification System using RFID Tags", IEEE Explore Feb 2011.

[9]. S. Srinivasa Rao, E G Rajan, K Lalkishore, "ASAF-ALOHA Protocol for Dense RFID Systems" Springer's International Journal on "Wireless Personal Communications", DOI: 10.1007/s11277-011-0357-9, June 2011.

[10+. S. Srinivasa Rao, E G Rajan, K Lalkishore, "Monitoring and Controlling Monorail Cars using LINUX Platform", International Journal of Emerging Technology and Advanced Engineering (IJETA), ISSN 2250-2459 (Online), ISO 9001:2008 Certified Journal Volume 2, Issue 12, December 2012.

[11+. T. Yashoda Vani, S. Srinivasa Rao, G. S. Kedarnath, "Design and Implementation of Embedded Bluetooth Multicast System", International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 2, Issue 1, January-2013.

[12+. Y.N.Supraja, S.Srinivasa Rao "Home Automation through Internet" EFY, 2007

[13+. Ch Sivaram, S.Srinivasa Rao, "An EAR Routing Algorithm for wireless sensor networks" IEEE Explore Feb-2011

## PAPERS PRESENTED IN NATIONAL/ INTERNATIONAL CONFERENCE/ SEMINARS:

\*1+ T Vasudeva Reddy, S.Srinivasa Rao, P.V.Sridevi, "Low power area efficient dynamic quad PCM Codec with filter for communication applications ", International Conference on Electrical, Electronics, Signals, Communication and Optimization (EESCO-2015), 24-25 January 2015, IEEE Xplore, ISBN 978-1-4799-7676-8

<http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=7253925&url=http%3A%2F%2Fieeexplore.ieee.org%2Fstamp%2Fstamp.jsp%3Ftp%3D%26arnumber%3D7253925>

[2] R Chinna Rao, Dr S.Srinivasa Rao, Dr VSK Reddy, "Significance of Vocoders in Mobile Communication", ICCSPCIT 2014, December 26-27, 2014, Malla Reddy College of Engineering & Technology, Secunderabad

[3+ P Venkatapathi, Dr S.Srinivasa Rao, "Analysis of Spectrum Sensing Algorithms for Improvement of Performance in Cognitive Radio", ICCSPCIT 2014, December 26-27, 2014, Malla Reddy College of Engineering & Technology, Secunderabad

[4+ Ch Shalini, Dr S.Srinivasa Rao, "Design and Simulation of Cordic Co-Processor In Xilinx Vertex 4 and Its Applications in Avionics" ICCSPCIT 2014, December 26-27, 2014, Malla Reddy College of Engineering & Technology, Secunderabad

[5+ DBV Ravi Sankar, Dr S.Srinivasa Rao, Dr N Venkateswara Rao, "FPGA Implementation of QPSK Modulator for SDR" NCRFWCSP 2014, November 17-18, 2014, Bapatla Engineering College, Bapatla

[6]. G. R. Kartheek, S. Srinivasa Rao, "Autonomous Mobile Platform II with Artificial Intelligence using Digital compass and GPS", International Conference on Electrical, Electronics and Computer Science, ISBN: 978-93-81693-88-5, 6<sup>th</sup> Jan, 2013, Hyderabad.

[7]. S. Srinivasa Rao, "Implementation and Evaluation of DDOS Attack Detection", *International Conference on Electrical Electronics and Data Communication Engineering*, IT Research, ICEEDC, 18<sup>th</sup> Nov, 2012.

[8+. Ramulu Gavvala, Sharath Chandra, Madan Mekala, S. Srinivasa Rao, "Pass-Parallel VLSI Architecture of BPC for Embedded Block Coder in JPEG2000", Asia Pacific Conference on Postgraduate Research in Microelectronics and Electronics, 5-7 December 2012, Hyderabad, India.

[9+. S. Srinivasa Rao, K Lalkishore, E G Rajan, "ASAF-A MAC Protocol for Human Identification System using RFID Tags", IEEE International Conference on Digital Convergence (ICDC), 2011.

[10+.S. Srinivasa Rao, "ASAF-A MAC Protocol for Human Activity Tracking for RFID System", International Conference on Informatics, Cybernetics and Computer Applications (ICICCA 2010), July 19-21, 2010, Bangalore, India.

[11].S. Srinivasa Rao, "Human Activity Tracking using RFID Tags", International Conference on Systemics, Cybernetics and Informatics (ICSCI-2009), January 07-10 2009.

[12].S. Srinivasa Rao, "Tutorial on Consensus Building in Decentralized Systems", International Conference on Systemics, Cybernetics and Informatics (ICSCI-2009), January 07-10 2009.

[13].S. Srinivasa Rao, "Security Systems using RFID", International Conference on RFID Technology and Applications- the Indian Perspective during SmartCards Expo 2008, August 27<sup>th</sup> 2008, India.

[14+]. S. Srinivasa Rao, K Lalkishore, E G Rajan, "Merits and Demerits of using RFID Tags", International Conference on Systematics, Cybernetics and Informatics ICSCI-2007, January 03-07, 2007.

#### **SEMINARS / CONFERENCES / WORKSHOPS ORGANIZED:**

1. Four Days Workshop on Embedded Systems
2. One Day Workshop on Tanner tools.
3. MSP 430 workshop
4. Advanced Training Course on FPGA's
5. Semi-custom VLSI Design using FPGA's & Tanner Tools
6. Two Days Seminar on Embedded DSP.
7. Wipro's - Mission 10X Faculty Empowerment Programme
8. Three Days Workshop on Embedded System Design: A Robot Application
9. Two Days workshop on MATLAB and its Applications
10. Two Days Workshop on Wireless Sensor Networks and Simulation Tools
11. One day workshop on "Embedded Linux on Zynq-7000 SoC using Vivado"
12. Two days workshop on Research Methodology
13. Two days workshop on Effective Teaching Methodologies
14. Two Weeks Workshop on Signals & Systems in association with IIT Khargpur

#### **UG / PG PROJECTS GUIDED:**

<b>PhD</b>	Registered in KLU Proposal submitted by 6 students	02 To be Registered:5-JNTUH, 1-BITS Pilani
<b>M Tech</b>	Number of Thesis Completed	25
	Number of Thesis in Progress	05
<b>B Tech (Regular)</b>	Number of Thesis Completed	40
<b>B Tech (CCC)</b>	Number of Thesis Completed	03

#### **REVIEWER FOR SPRINGER'S INTERNATIONAL JOURNAL ON WIRELESS PERSONAL COMMUNICATION**

#### **BOOKS PUBLISHED:**

Contributed Author for "Wireless Communication and Networking" by Rappaport., Pearson Publications, Prescribed Text book for B.Tech Course, Anna University, Tamilnadu

## **GUEST FACULTY:**

- Faculty for **BITS-Pilani MS Programme for Qualcomm Employees**. Handled **Wireless and Mobile Communications** during **August – December, 2012**.
- Faculty for **BITS-Pilani MS Programme for Qualcomm Employees**. Handled **Pervasive Computing Technology** during **August – December, 2013**.

## **SPECIAL RECOGNITION:**

- **Best Teacher award for three consecutive academic years 2005-06, 2006-07, 2007-08 from Aurora Group of Institutions, Hyderabad.**
- **Projects Examiner of BITS Pilani MS Programme for Qualcomm Employees, Hyderabad**
- **Proctor for NetMath Online program, Department of Mathematics, University of Illinois Urbana-Champaign, USA.**

## **PROFESSIONAL BODIES MEMBERSHIP:**

- **Member of IEEE**
- **Member of ISTE**
- **Member of IETE**

## **POST DOCTORAL WORK:**

- Proposal presentation in IIT Chennai in Ocean Engineering Department for Deployment of Multi sensor Network for establishment of communication between sub marines using RFID sensors before Naval Academy, Visakhapatnam on 9-12 January, 2012. Short Term Course on Submarine design and engineering, 9-12 Jan, 2012, Department of Ocean engineering, IIT Madras, Chennai (TN) – 600 036, India  
Course Contents  
Weapon Platform: Weapons & Sensors: ASAF – A MAC Protocol using RFID Sensors – by Prof E.G.Rajan, PRCPL.India
- Negotiations with Trolley Scan, South Africa for using the protocol for their RFID Readers used in RFID Radar System. Very shortly, an MoU will be signed between Trolley Scan, South Africa and Pentagram Research Centre Pvt. Ltd. Hyderabad, India
- Research work is being carried out for Improvement of Allotted Spectrum for Software Defined Radios
- Research work in Ad-hoc Wireless Networks, Femto Cells & Cognitive Radios

## **RECENT ACTIVITIES COMPLETED:**

- **Workshop Coordinator** for IIT Kharagpur sponsored **“NMEICT – Two Week ISTE Workshop on Signals & Systems”** scheduled from **02-12 January, 2014**
- **Judge for Paper Presentation on Emerging Trends in Technologies** during the **National Level Technical Symposium – FUTURE SASTRA 2014, 31 January – 01 February, 2014** at **Malla Reddy Engineering College for Women, Secunderabad**
- **General Secretary** for IEEE associated **“International Conference on Systematics, Cybermatics & Informatics – ICSCI 2014”**, scheduled from **03-06 February, 2014**
- **Invited lecture on “Recent research trends in Wireless Communications”** scheduled on **14-15 February, 2014** at **Chaitanya Bharathi Institute Technology (CBIT), Hyderabad**

- **Judge for Poster Presentation on “New Trends in Electronics & Communication Engineering” during the State Level Technical Symposium – MEDHA 2K14 at Malla Reddy Engineering College for Women, Secunderabad**
- **Coordinator for ICCSPCIT 2014, Malla Reddy College of Engineering & Technology, Secunderabad 26-27 December, 2014.**
- **UGC Autonomous Convener for Malla Reddy College of Engineering & Technology (MRCET), Secunderabad**
- **Coordinator for ICCSPCIT 2015, Malla Reddy College of Engineering & Technology, Secunderabad 18-19 December, 2015.**
- **Reviewer for Elsevier’s International Journal of Computational Design and Engineering.**
- **Mentor for Two MoMSME Projects worth of Rs 12.50 Lakhs.**
- **Licensed Amateur Radio HAM Operator, Government of India.**