

## FACULTY PROFILE

Name : R.Sarankumar  
Designation : Assistant Professor  
Email ID : [sarankumar.ece@srit.org](mailto:sarankumar.ece@srit.org)  
Area of Specialization : Signal Processing for Wireless  
Communications & Cognitive Radio



Total Experience : Academic : 4 Years 10 months  
Industry : Nil

### Educational Qualification:

Degree	Branch / Specialization	College	University
Ph.D. (pursuing)	Wireless Communications	---	Anna University
M.E.	Communication Systems	Sri Krishna College of Engineering and Technology	Anna University
B.E.	ECE	Sri Ramakrishna Institute of Technology	Anna University

### Experience Details:

S.No	Institution/Industry	Design.	Experience		Total Years & Months
			From	To	
1	Sri Ramakrishna Institute of Technology	Assistant Professor	09.05.2014	Till date	1 Year 10 months
2	SriGuru Institute Of Technology	Assistant Professor	16.5.2011	08.05.2014	3 Years
<b>Total (as on Feb 2016)</b>					<b>4 Years 10 Months</b>

## Publications

**Journals : 6**

1. R.Sarankumar, P.Poongodi , G.Umamaheswari, "Out of Band Radiation Control in OFDM Based Cognitive Radio Systems" Middle-East Journal of Scientific Research ISSN 1990-9233 Volume 24, Number 2 (Feb 2016)
2. R.Sarankumar, P.Poongodi , G.Umamaheswari, "Sidelobe Suppression in Cognitive OFDM systems using hanning window" International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.67 (April 2015)
3. R.Sarankumar, P.Poongodi , G.Umamaheswari and G Navaneetha, "Interference Reduction In OFDM Based Cognitive Radio System" International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 16 (June 2015)
4. R.Sarankumar, Aswathy S. Kootummel, K. Kavitha, "Out of Band Reduction in Cognitive OFDM Systems" The International Journal Of Science & Technoledge ISSN 2321 – 919X Vol. 2, No 4 (April 2014)
5. R.Sarankumar, Neethu M. S., "Bit Error Rate Reduction Using Orthogonal Frequency Division Multiplexing with Index Modulation" The International Journal Of Science & Technoledge ISSN 2321 – 919X Vol. 2, No 4 (April 2014)
6. R.Sarankumar, K.Saranya. "CMOS Full- Adders for Arithmetic Applications in DSP " CiiT International Journal of Digital Signal Processing, Volume 4 No. 1, pp. 28- 32, January 2012

## National Conferences: 2

1. R.Sarankumar, J.Ponarasu. "A Weighted OFDM Scheme for PAPR Reduction" A National Conference on Communication System and VLSI Design, on 30<sup>th</sup> January held at PSG College of Technology
2. R.Sarankuar, G.Vairavel. "Performance Analysis of Weighted Linear Parallel Interference Cancellation in DS-CDMA and OFDMA systems "National Conference on Recent Advances in Computer Vision and Information Technology (NCVIT2011), on 7<sup>th</sup> March, 2011 held at Government College of Technology, Coimbatore.

### **Seminar, Conference, Workshop Attended:**

1. One Week Short Term Course on **Developments and Challenges in Wireless Networks** from 26 Dec 2015 to 3 Jan 2016 at Coimbatore Institute of Technology.
2. Two Weeks Short Term Training Program on **Engineering Physics** during 8-18 December 2015 conducted by Indian Institute of Technology Bombay under the National Mission on Education through ICT (NMEICT ) at Sri Ramakrishna Institute of Technology.
3. Two Weeks Short Term Training Program on **Environmental Studies** conducted by Indian Institute of Technology Bombay under the National Mission on Education through ICT (NMEICT ) during 2-12 June 2015 at Sri Ramakrishna Institute of Technology.
4. One Week Short term Course on **Advancements in Wireless Technologies, 4G & beyond** during 1-7 Dec 2014 at Coimbatore Institute of Technology.
5. One week Faculty Development and Training program on **Digital Signal Processing** during 11-17 June 2014 at Anna University regional Office Coimbatore.
6. One day Seminar on **“Research Challenges in Cooperative Communication and Cognitive Radio Networks”**, held on 9<sup>th</sup> November 2013 at P.S.G. College of Technology, Coimbatore.
7. Three days National Workshop on **“Software Defined Radio (SDR) for Real – Time Communication & Signal Processing”**, held from 11<sup>th</sup> – 13<sup>th</sup> July, 2013 at Amrita Vishwa Vidyapeetham University, Coimbatore.
8. Two days National Workshop on **“Software Defined Radio – Academic, Industrial and Social Perspective”**, held on 4<sup>th</sup> - 5<sup>th</sup> January 2013 at P.S.G. College of Technology, Coimbatore.
9. Two days National Workshop on **“MATLAB Programming”**, held at Kongu Engineering College from Aug 25, 2011 to Aug 26, 2011
10. Two days Faculty Development Program on **“Effective Teaching”** held on May 27-28, 2011 at SriGuru Institute of Technology, Coimbatore.
11. Three days Faculty Training Program on **“Effective Teaching Methodologies and Career Counseling”** held from June 30- July 02, 2012 at SriGuru Institute of Technology, Coimbatore.

### **Membership in Professional Bodies:**

1. Life Member of Indian Society for Technical Education (ISTE), Membership # LM 78315
2. Life Member of International Association of Engineers (IAENG), Membership #LM 143385

**Contributions to the Institution, Department and Society:**

1. Tutor for 2013 -2017 batch (ECE B)
2. Affiliation Coordinator for the department
3. Anti-Ragging committee member
4. Stock verification committee Member
5. Treasurer for SRIT Alumni Association (2016 -2018)