



## **Rutvij C. Joshi**

**Associate professor,  
ECE Department,**

**A.D.Patel Institute of Technology**

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**<https://scholar.google.co.in/citations?user=jezRfiMAAAAJ&hl=en>**

### **❖ Field of Specialization :**

- Wireless Communication System
- Network protocols
- RF and Microwave Circuit Designs
- FPGA based Digital Designs

### **❖ Academic Qualifications**

- PhD in Electronics and Communication Engineering from Sardar Patel University, Vallabh Vidyanagar, February-2014
- M.E.E.C in Electronics and Communication Systems from Dharamsinh Desai University, Nadiad in 2005
- B.E.E.C (Electronics and Communication), North Gujarat University, Patan in 2003

### **❖ Professional Experience :**

- **Total Academic Experience:** 14-years and 6-months
  - Working as an Associate Professor in Electronics & Communication Department, A.D. Patel Institute of Technology since 1<sup>st</sup>-March, 2014 onwards.
  - As an Assistant Professor in Electronics & Communication Department, A.D.Patel Institute of Technology since 1<sup>st</sup>-July-2010 to 28<sup>th</sup> February-2014.

- As Lecturer in Electronics & Communication Department ,A.D.Patel Institute of Technology from 1st June 2005 to 30th June-2010
- **Total Research Experience:** 01-Year and 6-months
  - As a Trainee Engineer (M.E Dissertation) at Physical Research Laboratory (PRL), Ahmadabad (2004-2005)
  - As a Trainee Engineer (B.E Project) a Physical Research Laboratory (PRL), Ahmadabad (2003)

#### ❖ **Professional Society Membership :**

- LMIE : Life Member if Institute of Engineers.
- LMISTE: Life Member of Indian Society for technical Education.

#### ❖ **Awards/Prizes/Certificates**

- Received **Best Technical Paper** award at International Conference on Research and Development in Engineering, Technology and Science-2013, held at G.K.Bharad Institute of Engineering , Rajkot, Gujarat, India on 7th- April-2013
- Awarded for coordinating PG program and guiding PG dissertations during 2011-2013 at ECE Department , A.D.Patel Institute of Technology
- Received certificate for participating in National Competition VIMANTRA-2012.

#### ❖ **Academic/Industrial Consultancy**

- Provided industrial consultancy to Insignex Pvt. Ltd. for "RF Module Testing and Analysis" on 10<sup>th</sup> May - 2019 at ECE Department, A.D.Patel Institute of technology, New Vallabh Vidyanagar, Gujarat, India
- Provided industrial consultancy to Transpek Industries Pvt Ltd, Vadodara by developing project “Auto Lighting System” for their corporate office

and by providing training sessions on Digital control system to their employee.

- Provided Academic Consultancy to faculties from many reputed organizations in the testing and analysis of RF and Microwave circuits.

#### ❖ **Research Project:**

- As Co-PI, received research grant of Rs.14,92,000 from ISRO RESPOND program for research project “Performance Enhancement of Circularly Polarized Planer Antennas using DGS“ in the month of October-2018

#### ❖ **Publications:**

##### • **Book Chapter:**

1. R.C.Joshi, V.K.Thakar, “Admission Control in Communication Network using Discrete time Sliding Mode Control”, Lecture Notes in Electrical Engineering (LNEE), Springer, `Vol-327, 2015, pp -397-407.

##### • **International Journals:**

2. R. Bhojani, R.C.Joshi, "An Integrated Approach for Jammer Detection using Software Defined Radio", Procedia Computer Science, ELSEVIER, Volume 79, 2016, Pages 809-816.
3. P. Panchal, R.C.Joshi, "Performance Analysis and Simulation of Rain Attenuation Models at 12–40 GHz Band for an Earth Space Path over Indian Cities", Procedia Computer Science, ELSEVIER, Volume 79, 2016, Pages 801-808.
4. R.C.Joshi, V.K.Thakar, “Congestion Control in Communication Networks using Discrete Sliding Mode Control”, Journal Of University of Science and Technology of China , Vol.42, N0.7, July-2012 pp 540-545.
5. Chandni P. Pravasi, Dr. Rutvij C. Joshi. "Design of UWB Microwave Filter using Quarter Wavelength Short-Circuited Stub. *Journal of Microwave Engineering & Technologies*. 2015; 2(2): 32–36p.

## **6. National Journal:**

7. S. Solanki, R.C.Joshi, "Design and Analysis of Energy Efficient Digital Modulation Techniques for Wireless Sensor Networks", ADIT Journal of Engineering, Vol.11, Number-1, December-2014, pp 3-8.
8. R.C.Joshi, Anil Kshatriya, V.K.Thakar, "FPGA based Implementation of Huffman Coder using VHDL", GIT Journal of Engineering and Technology , Vol-5, 2012.
9. Dhara Patel, R.C.Joshi, "MAC Protocol for Battery Power Management in WSN: A Survey", ADIT Journal of Engineering and Technology, Vol-9, No.1, December-2012, pp 27-31.
10. Nehal Shyal, R.C.Joshi, "Survey Report on Localization Protocol for Mobile Sensor Navigation in AWSN", ADIT Journal of Engineering and Technology , Vol-9, No.1, December-2012, pp 13-17.
11. Praful S. Bhakhar, R.C.Joshi, "Storage Facility for CRO using Microprocessor 8085", ADIT Journal of Engineering and Technology, Vol-3, No.1, December-2006, pp 59-62. (ISSN :0973-3663)
12. R.C.Joshi, Parag Koradia, "FPGA based Implementation of Pseudo-Noise Sequence Generator", Journal of Engineering and Technology, Sardar Patel University, Vol. 19, December-2006.

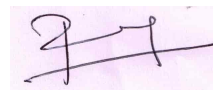
## **• Conference Papers**

13. K. Gohel, R.C.Joshi, "Design and Modelling of Jammer Detection and Localization Algorithm using Software Define Radio" , Workshop on. Modelling, Simulation and. Computational Techniques. (WMSC-2015), LNMIIT, Jaipur, 15-17 January-2015.
14. P. Pandya, R.C.Joshi, "Energy Efficient Massive MIMO System : A Survey", 3rd International Conference on Electronics and Communication Systems, ICECS-2016, 25-26 Feb-2016, Coimbatore. (To be published in IEEE Xplore Digital Library)

15. Ketul Patel, R.C.Joshi, "Online Patient Monitoring System: A Survey", International Workshop on Sensor Network and Wireless Communications (SNWC-2013), ADIT, New VV Nagar, 9-11, October-2013.
16. Rajendra Chauhan, R.C.Joshi, "Comparative Study of Different Blast Technologies", International Workshop on Sensor Network and Wireless Communications (SNWC-2013), ADIT, New VV Nagar, 9-11, October-2013.
17. Nehal Shyal, R.C.Joshi, "Implementation of Localization algorithm for Wireless Sensor Network using NI-WSN Module", International Workshop on Sensor Network and Wireless Communications (SNWC-2013), ADIT, New VV Nagar, 9-11, October-2013.
18. Nehal Shyal, R.C.Joshi, "A Localization Protocol for Mobile Node Positioning in Wireless Sensor Network", International Conference on Research and Development in Engineering, Technology and Science-2013, held at G.K.Bharad Institute of Engineering, Rajkot, Gujarat, India on 7th- April-2013
19. R.C.Joshi, Samreen A. Ahmad, Kavita Jain, "NI my DaQ based Wireless Heartbeat Monitoring System", A National Level Paper presentation Contest organized by National Instruments, held at Bangalore, India on 16-October,2013.
20. R.C.Joshi, V.M.Dabhi, "Effective RF and Microwave Education", IEEE international RF and Microwave conference held at Kuala Lumpur, Malaysia, 2-4 December-2008, Published in IEEE Explore, Digital Library, pp 184-188 (ISBN: 978-1-4244-2866-3).
21. V.K.Thakar, S.R.Tembhurne, R.C.Joshi, "Undergraduate Control Education: Theory and Practices", 17th World Congress, The International federation of Automatic Control, Seoul, Korea, July 6-11, 2008, pp 10355-10358
22. V.C Pandya, Jigar Shah, R.C.Joshi, "Case Study on Adaptive Signal Processing for Noise Cancellation", International Conference on Sensors and signal Processing (SSPCCIN-2008) at Pune, January-2008.
23. Jignesh Patel, R.C.Joshi, V.M.Dabhi, Paresh Patel, "FPGA based Automatic Tyre Inflator System", National Conference on State of the Art Technologies in Mechanical Engineering, (STEM-2007), Pantnagar, pp 373-378

24. R.C.Joshi, "Design of IF Processor for SMM Receiver", National Conference on Broadband Communication Systems, (NCBCS-2006), VIT Pune (ISBN :0-07-062091-1)
25. R.C.Joshi, V.K.Thakar, "FPGA based Implementation of Embedded PLC", 38th Mid-term symposium on Emerging trends in Instrumentation and Process Automation organized by IETE, Vadodara centre, April-2007.
26. R.C.Joshi, V.K.Thakar, Jignesh Bhavsar, "FPGA Based Implementation of Incremental Motion of Stepper Motor Controller", 38th Mid-term symposium on Emerging trends in Instrumentation and Process Automation organized by IETE, Vadodara center, April-2007.
27. R.C.Joshi, P.S.Bhakhar, "The technical Overview on SMM Receiver for THz Astronomy", International Conference on Microwaves and Optoelectronics (ICMO-2007), BAMU, Aurangabad.
28. R.C.Joshi, V.K.Thakar, V.C.Pandya, Hetal Patel, "Embedded Switching Controller", Nonlinear and Variable Structure Control ,NVSC-2008, ADIT, New VV nagar.
29. R.C.Joshi, S.R.Tembhurne, "Identification of Nonlinearities in Control Loop Components", Nonlinear and Variable Structure Control ,NVSC-2008, ADIT, New VV nagar.
30. R.C.Joshi, V.K.Thakar, "FPGA based Implementation of Embedded Controlled Communication Network", International workshop on system of system engineering, organized jointly by Indo-US Form and IIT Kanpur.
31. R.C.Joshi, P.M.Koradia, V.L.Thakar, "CPLD based Embedded Entry/Exit Register for Automation Application", National Conference on Embedded Control, Computing & Communication (NCECCube)-2007 at I2IT, Pune, April-2007.

Place: New V. V. Nagar  
Date: 11-01-2019



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