

# Professional and Personal Profile

## Office Address

Dr. Srinivas Nallagonda  
Assistant Professor  
Dept. of Electronics & Communication Engineering  
Marri Laxman Reddy Institute of Technology and Management  
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## Objective

To work in a dynamic environment to enhance professional growth through continuous learning and giving best to all challenging tasks to provide solution to the organization to which I serve.

## Education

- DEC 2014 **Doctor of Philosophy (Ph.D)** in Wireless Communications, Dept. of ECE  
**National Institute of Technology** Durgapur, West Bengal, India  
Thesis: “Cooperative spectrum sensing for Cognitive Radio Networks over Fading Channels”  
Supervisors: Dr. Sumit Kundu & Dr. Sanjay DharRoy  
Course Work CGPA: 8.5/10  
IEEE International Conferences: 14  
IEEE National Conference: 02  
International Journals: 08  
International Book Chapters: 02  
National Conference: 01
- MAY 2009 **Postgraduate Degree (M.Tech)** in Telecommunication Engineering, Dept. of ECE  
**National Institute of Technology** Durgapur, West Bengal, India  
Thesis: “Studies on Forward Link Data Services in Cellular CDMA”  
Supervisors: Dr. Sumit Kundu & Dr. Sanjay DharRoy  
CGPA: 8.83/10 or Percentage: 83.3%  
IEEE International Conferences: 02
- MAY 2006 **Undergraduate Degree (B.E)** in Electronics & Communication Engineering  
**Osmania University**, Hyderabad, Telangana, India  
Percentage: 67.89%
- MAY 2002 **Higher Secondary School (XII or Intermediate)**, in Mathematics, Physics, and Chemistry  
**Prathibha Junior college**, Ibrahimpatnam, R.R. District, Telangana, India  
Percentage: 87.4%
- MAY 2000 **X Standard (SSC)**  
**Margadarshi Vidya Mandir**, Chandupatla, Nalgonda District, Telangana, India  
Percentage: 77.17%

## Teaching/Research/Administration Experience with Positions held

**Total Teaching Experience: 12 Years** including PhD.

4. **5 years, 1 Months** (since 16/1/2017 to till date), **Associate Professor**, Place: Marri Laxman Reddy Institute of Technology & Management (Autonomous), Affiliated to JNTU Hyderabad, Dundigal, Hyderabad-500 043, Telangana.
3. **2 years, 5 Months, 10 Dyas** (from 08/2014 to 11/1/2017), **Assistant Professor**, Place: M.V.S.R Engineering College, Affiliated to Osmania University, Naderagul, Hyderabad-501 510, Telangana
2. **4 years** (from 09/2014 to 01/08/2014), **Research Scholar and Teaching Assistant**, Place: NIT Durgapur, West Bengal, India.
1. **8 Months, 11 Days** (from 1/2010 to 9/2010), **Assistant Professor**, Place: Swami Ramananda Thirtha Institute of Science & Technology (SRTIST), Nalgonda-508 004, Telangana.

### Course Taught Previously

- Analog Communications for UG students (core)
- Digital Communications for UG students (core)
- Signals & Systems for UG students (core)
- Mobile Cellular Communications for UG students (core)
- Radar and Satellite Communications for UG students (elective)
- Optical Fiber Communications for UG students (elective)
- Telecommunication System for UG students (elective)
- Hardware and Software Co-design for PG (VLSI) students (core)
- Wireless Communications & Networking for PG (VLSI) students (elective)

### Laboratories handled

- Analog Communication LAB for UG students
- Digital Communication LAB for UG students
- Basic Electronics LAB for UG students
- Electronics Workshop and Simulation for UG students

**Total Research Experience in academic institutions: 12 years** ( since 2008 to till date)

**Total number of publications: 65 (published)**

International Journals: **24**, IEEE Conferences: **36**, National Conferences: **3**, Book Chapters: **2**  
**Projects: 2** (DST-NCSTC Ongoing, SERB-EEQ Ongoing)

### Administration/Department level coordinator/incharge/Additional Responsibility

- Head of the Department (HoD) from 01-07-2018 to 30-06-2019 (1 Year)
- NBA and Autonomous coordinator (Dept. level)
- Academic coordinator (Dept. level, from A.Y 2017-2018 to till date)
- In-charge for: Student counseling, student feed back, class advisor, and student marks/attendance consolidation (Dept. level, A.Y 2015-2016)
- Alumni coordinator (for Dept. level, A.Y 2014-15 and 2015-2016)
- Communication Engineering LAB In-charge (Dept. level, A.Y 2015-2016)
- Dept. Library coordinator/Incharge (Dept. level, A.Y 2015-2016)
- Consultancy and R & D coordinator (Dept. level, from 2014 to 2016)
- Faculty/Staff research/Career development promotion committee member (Dept. level, from 2014 to 2016)

### Research Collaborators:

- Dr. Gianluigi Ferrari and Dr. Prof. Riccardo Raheli, Professors, Dept. of Information Engineering, **University of Parma**, Parma, **Italy**.
- Dr. P. Kukolev and Dr. A. Prokes, Researchers - Marie Curie Fellow, Department of Radio Electronics, Faculty of Electrical Engineering & Communication, **Brno University of Technology**, Technicka 12, Brno 61600, **Czech Republic**.
- Dr. Sumit Kundu, Professor and Dr. Sanjay Dhar Roy and Dr. Aniruddha Chandra, Associate Professors, Dept. of ECE, **NIT Durgapur**, West Bengal, India.
- Dr. S. Anuradha, Assistant Professor Dept. of ECE, **NIT Warangal**, Telangana, India.
- Suresh Kumar Balam and P. Siddaiah, Dept. of ECE, **Nagarjuna University**, Guntur, Andhra Pradesh, India.
- Dr. Abhijit Bowmik, Associate Professor, Dept. of ECE, **Vollere Institute of Technology**, **Tamilnadu**, India.

- Mr. Y. Rakesh Kumar, Associate Professor, Dept. of ECE, **G. Narayanama Institute of Technology and Sciences, Hyderabad**, Telangana, India.
- Mr. G. Mahendar, Assistant Professor, Dept. of ECE, **M.V.S.R. Engineering College, Hyderabad**, Telangana, India.

### Interested Subjects for Teaching

- Basic Electronics
- Signals and Systems
- Wireless Communications
- Analog and Digital communications
- Mobile Cellular Communication
- Radar and Satellite Communications
- Optical Fiber Communications
- Telecommunication Systems
- Internet of Things (IoT)
- Python Programming
- Artificial Intelligence

### Awards, Recognitions, Achievements, Scholarships, Skills and Capability

- **Awarded Scholarship** from the Ministry of Human Resource Development (MHRD), Government of India, for the periods 2007-2009 (M. Tech.) and 2010-2014 (Ph.D)
- Awarded as **'Best Paper Award'** by IEEE International Symposium on Sustainable Energy, Signal Processing & Cyber Security (IEEE-iSSSC 2020), GIET University, Gunupur, ODISHA.
- Awarded as **'Emerging Young leader in Higher Education'** by Veenus International foundation, Chennai. Award taken from Madras High Court Judge (Lok Adalat)
- Acted as **HoD** for 1 year and **coordinator** for NBA and Autonomus in MLRITM
- **Certificate of Appreciation** in Bronze category from the Ministry of Finance, Government of India, for the Assessment Years 2018-19 and 2019-2020.
- Member IEEE (membership ID: 93781574)
- Secured all India rank **5102** in Gate 2007 with **85%**.
- Secured class **Second rank** in M.Tech.
- Secured **First rank** in Intermediate (10+2) College
- Secured class **Third rank** in X Standard (SSC) standard
- Technical skill- C, MATLAB, Mathematica
- Preparation of technical papers/thesis using LATEX
- Tenacity, Optimistic, Diligence, and Amiable

### Academic Projects/Thesis

- **Ph.D-Thesis:**  
**Thesis Name:** "Cooperative spectrum sensing for Cognitive Radio Networks over fading channels"  
**Organization:** National Institute of Technology (NIT), Durgapur, W.B., India.  
**Supervisors:** Dr. Sumit Kundu, Professor, Dr. Sanjay Dhar Roy, Assistant Professor.  
**Description:** The thesis proposes several methods for improving spectrum sensing performance in cognitive radio (CR) networks using single and multiple CRs considering various fading scenarios, namely Rayleigh, Rician, Nakagami- $m$ , Hoyt, Weibull, and Log-normal shadowing for the sensing and reporting channels. The novel closed-form expression of probability of detection and false alarm is developed in individual case for various types of hard and soft decision fusion rules. Two schemes such as rank-based and threshold-based censoring for the faded reporting channels with novel analytical expressions for the selection of CRs are studied. The performance of cooperative spectrum sensing (CSS) with several weighting schemes is studied and performance results are reported. A novel analytical expression of missed detection probability and false alarm for CSS with improved energy detector are developed. A simulation testbed in MATLAB/Mathematica is developed and followed by extensive

simulation results on detection probability in all the above mentioned cases in terms of SNR (dB), detection thresholds, complementary receiver operating characteristics (CROC) curves are reported.

- **M.Tech-Thesis:**

**Thesis Name:** “Studies on Forward link data services in cellular CDMA”

**Organization:** National Institute of Technology (NIT), Durgapur, W.B., India.

**Supervisors:** Dr. Sumit Kundu, Professor, Dr. Sanjay Dhar Roy, Assistant Professor.

**Description:** The present thesis focuses on performance evaluation of forward link Data services in Cellular Code Division Multiple Access (CDMA) in presence of soft handoff. Outage of packet data services using CDMA is evaluated. Throughput and delay have also been investigated in Cellular CDMA in presence of soft HO. Truncated ARQ is employed in link layer to improve performance of delay sensitive multimedia services.

- **B.E- Project:**

**Project Name:** “Serial Communication Interface (UART) using Verilog HDL”

**Organization:** MVSR Engineering College, Nadergul, Hyderabad, T.S., India.

**Supervisor:** Dr. B. Sarala, Associate Professor.

**Description:** The present project, simulation of UART (universal asynchronous receiver and transmitter) using verilog, it is nothing but serial communication interface. It can convert the data serial to parallel vice versa between two computers.

### Certificate/Workshops/Seminars/Conferences Attended

27. IEEE 2021 7th International Conference on “**Advanced Computing and Communication Systems (ICACCS)**,” Coimbatore, India, pp. 1-6, March 2021.
26. Attended FDP on “**Artificial intelligence**”, held at G Narayanamma Institute of technology and science, Hyderabad, Hyderabad during 22-26, May 2020.
25. Attended FDP on “**SCiLAB**”, held at Araupadai Veedu Institute of technology (AVIT), 20-24th April 2020.
24. IEEE International Symposium on “**Sustainable Energy, Signal Processing and Cyber Security (ISSSC)**,” Odisha, India, pp. 1-6, December 2020
23. IEEE International Conference on “**Electronics, Communication and Aerospace Technology (ICECA)**,” Coimbatore, India, pp. 1-6, November 2020.
22. IEEE International Conference for “**Innovation in Technology (INOCON)**,” Bangalore, India, July 2020.
21. IEEE International Conference “**India Conference (INDICON)**,” Amrita vishwa Vidyapeetham, Coimbatore, India, 16th - 18th December 2019.
20. IEEE International Conference on “**Advances in Electronics, Computers and Communications (ICAECCE 2018)**,” REVA University, Bangalore, India, 9th-10th, February 2018.
19. Attended FDP on “**Analog and Digital communication**” , held at MLRIT, Hyderabad during 15-17, May 2017.
18. IEEE International Conference on “**Wireless Communications Signal Processing and Networking (WISPNET 2017)**,” Chennai, India, 22nd -24th, March 2017.
17. 7th IEEE International “**Advance Computing Conference (IACC)**,” Hyderabad, India, 5th-7th January 2017.
16. National conference on “**Advanced Signal Processing, Embedded and Communication Systems (ASPECS)**,” CBIT, Hyderabad, 11th & 12th, August 2016.
15. National conference on “**Advances in Information Technology (NCAIT)**,” MVSREC, Hyderabad, 22nd & 23rd, January 2016.
14. Five day Intensive course on “**Probability Theory and Stochastic Processes**,” organized by ECE department, MVSR Engineering College, Hyderabad, India, during 4th -8th January 2016.
13. Eighteenth International Symposium on “**Wireless Personal Multimedia Communications (WPMC)**,” Hyderabad, India, 13th -16th December 2015.
12. One day seminar on “**Effective Teaching Skills**,” organized by ECE Dept., M.V.S.R Engineering College, Hyderabad, on 18th October 2014.
11. One day workshop on “**Quality Initiatives: Research and Patents**,” TEQIP-II sponsored and organized by Vasavi College of Engineering, Hyderabad, on 22nd November 2014.

10. Four day workshop on “**Advanced Wireless Communication and Networking**,” TEQIP sponsored and organized by ECE Dept., NIT Durgapur, during 28th-1st, November 2013.
9. IEEE International Conference “**National Conference on Communications (NCC)**,” IIT Delhi, India, 15th - 17th, February 2013.
8. IEEE International Conference “**India Conference (INDICON)**,” Kerala, India, 7th - 9th December 2012.
7. IEEE International Conference “**India Conference (INDICON)**,” Hyderabad, India, 16th-18th, December 2011.
6. National conference on “**Frontiers of Communication and Instrumentation (COIN)**,” Techno India, Kolkata, 11th & 12th, November 2011.
5. IEEE International Conference on “**Computer & Communication Technology (ICCCT)**,” MNIT Allahabad, India, 15th-17th, September 2011.
4. One day seminar on “**IEEE Antennas and Propagation/Microwave Theory and Techniques**,” held at ECE Dept., NIT Durgapur on 7th March 2011.
3. Two day seminar on “**Trends in Power Electronics, Electrical Machines and Drives**,” TEQIP sponsored and organized by Electrical Dept., NIT Durgapur, during 26th -27th, February 2009.
2. IEEE international conference on “**Wireless Communication & Sensor Networks (WCSN)**,” IIT Allahabad, India, 26th-29th December 2008.
1. Two day seminar on “**Wireless Communication and Networking**,” TEQIP sponsored and organized by ECE Dept., NIT Durgapur, during 28th -29th, March 2008.

#### Workshops/Seminars Organized/Professional Activity and Training

5. Organized and acted as the **Chief Resource Person** in one day Workshop on “**Technical paper writing Using latex**,” ECE Dept., at MLRITM, Hyderabad, on 17th March, 2017.
4. Acted as the **Chief Resource Person** in three day Workshop on “**VLSI Design Challenges**,” organized by ECE Dept., at Avanthi Institute of Engineering and Technology Hyderabad, on 6th December, 2016.
3. One day Workshop on “**Technical paper writing Using LATEX**,” sponsored and organized by ECE Dept., MVSR Engineering College, Nadargul, Hyderabad, on 19th September, 2015. I acted as the Chief Resource Person for this workshop.
2. Member for four day workshop on “**Advanced Wireless Communication and Networking**,” TEQIP sponsored and organized by ECE Dept., NIT Durgapur, during 28th-1st, November 2013.
1. Organizer for the event “**Seminar on Wireless Communication and Networking (WCN-2008)**” held in our department (ECE), NIT Durgapur.

#### Significant Outreach Institute out Activities

18. Reviewer of technical paper for “**Wireless Networks**” Springer, April 2021.
17. Reviewer of technical paper for “**IEEE transactions on cognitive communications and networking**” IEEE, August 2021.
16. Invite lecture on “**Analog Communications**” for B. Tech, 2/4 students at Avanthi Institute of Engineering and Technology, Hyderabad, on 19th March 2019.
15. Invite lecture on “**Cellular Mobile Communications**” for B. Tech, 4/4 students at Avanthi Institute of Engineering and Technology, Hyderabad, on 27th Oct, 2018.
14. Invite lecture on “**Digital Communications**” for B. Tech, 3/4 students at Gurunanak Institute of Technology, Hyderabad” on 29th Sept, 2018.
13. Reviewer of technical paper for “**International Journal of Communication Systems**” Elsevier, 2017.
12. Reviewer of technical paper for “**AEUE - International Journal of Electronics and Communications**” Wiley, 2017.
11. Reviewer of technical paper for “**IEEE International Conference on Microelectronics, Computing and Communications (MicroCom)**” 2017.
10. Invite lecture on “**Wireless Communications & Networking**” for B. Tech, 4/4 students at Gurunanak Institute of Technology, Hyderabad” on 27th Feb, 2017.

9. Invite lecture on “**Technical Paper Writing Using LATEX**” in 3 day FDP on VLSI Design Challenges at Avanathi Institute of Engineering and Technology, Hyderabad, 6th to 8th Dec, 2016.
8. Invite lecture on “**Introduction to Latex**” in one week FDP on Signal Processing Techniques at MVSREC, Hyderabad, from 15th to 19th Nov, 2016.
7. Invite lecture on “**Cellular Mobile Communications**” for B. Tech, 4/4 students at Gurunanak Institute of Technology, Hyderabad on 4th October, 2016.
6. Invite lecture on “**Cellular Mobile Communications**” for B. Tech, 4/4 students at Avanathi Institute of Engineering and Technology, Hyderabad on 14th Sept, 2016.
5. Invite lecture on “**Digital Communications**” for B. Tech, 3/4 students at Avanathi’s scientific Technological and Research Academy, Hyderabad on 13th April, 2016.
4. Appointed as **B.Tech Project external examiner** at Avanathi Institute of Engineering and Technology, Hyderabad on 26th April 2016.
3. Appointed as **M.Tech Project external examiner** at Avanathi’s scientific Technological and Research Academy, Hyderabad on 31st December 2014.
2. Appointed as subject expert for faculty recruitment in various Engineering Colleges.
1. Examiner for Question paper settings for various Universities.

### Funding Projects

S. No	Names of PI and Co-PI	Project Title	Scheme and Funding Agency	Status	Registration No.	Amount (Rs.) & duration
1	Dr. G. Amarnath, Dr. N. Srinivas	Exploring Science Communication in Children’s of Dundigal and Surrounding villages of Medchal District, Telangana State through Children Centric Outreach Programme	Children Centric Outreach Programme, NCSTC-DST	On going	TPN / 63285	16,86,960, 1 Year
2	Dr. N. Srinivas	Development of a Wireless Sensor Network with Cognitive Radio Functionalities for Improving the Sensing Performance in Noisy and fading environments	Empowerment and Equity Opportunities for Excellence in Science, SERB	On going	EEQ/2021/000190	15,55,000, 3 Year

### Publications based on M. Tech Thesis

IEEE International Conference Papers: 02

2. Dhar Roy Sanjay, **Srinivas Nallagonda**, Kundu Sumit, “Performance analysis of different power allocation strategies for down link cellular CDMA,” in Proc. of IEEE International Conference on Computers and Devices for Communication (**CODEC**), pp. 1-4, Kolkata, India, December 2009.
1. **Srinivas Nallagonda**, Sanjay Dhar Roy, Sumit Kundu, “Forward link performance of packet data in presence of soft handoff in cellular CDMA,” in Proc. of IEEE International Conference on Wireless Communication and Sensor Networks (**WCSN**), pp. 324-327, IIIT Allahabad, India, December 2008.

### Publications based on Ph.D Thesis

International Book Chapters: 02

2. **Srinivas Nallagonda**, Sanjay Dhar Roy, Sumit Kundu, Gianluigi Ferrari and Riccardo Raheli, “Co-operative spectrum sensing with censoring of cognitive radios and MRC based fusion in fading and shadowing channels,” Editors N. Kaabouch and W. Chen Hu, book name: Hand Book of Research on Software-Defined and Cognitive Radio Technologies for Dynamic Spectrum Access and Management, chapter 2, pp. 38-67, **IGI Global**, USA, October 2014.



1. **Srinivas Nallagonda**, Sanjay Dhar Roy, Sumit Kundu, Gianluigi Ferrari and Riccardo Raheli, "Cooperative spectrum sensing with censoring of cognitive radios in fading channel under majority logic fusion," Editors F. Bader and M. G. Di Benedetto, book name: Cognitive Communications and Cooperative HetNet Coexistence, chapter 7, pp. 133-161, **Springer**, Switzerland, January 2014.

International Journal Papers: 08

8. **Srinivas Nallagonda**, Sanjay Dhar Roy and Sumit Kundu, "Combined diversity and improved energy detection in cooperative spectrum sensing with faded reporting channels," Journal of King Saud University-Computer and Information Sciences (production and hosting by **Elsevier**), vol. 28, no. 2, pp. 170-183, April 2016. (**Scopus, Science Citation Index Expanded**) **IF 13.4**
7. **Srinivas Nallagonda**, Aniruddha Chandra, Sanjay Dhar Roy and Sumit Kundu, P. Kukolev and A. Prokes "Detection performance of cooperative spectrum sensing with hard decision fusion in fading channels," International Journal of Electronics (**Taylor & Francis**), vol. 103, no. 2, pp 297-321, February 2016. (**Scopus, Science Citation Index**) **IF 1.070**
6. **Srinivas Nallagonda**, Sanjay Dhar Roy and Sumit Kundu, "Cooperative spectrum sensing with censoring of improved energy detector based cognitive radios in rayleigh faded channel," International Journal of Wireless Information Networks (IJWIN), **Springer**, vol. 21, no. 1, pp. 74-88, March 2014. (**Scopus, Emerging Sources Citation Index (ESCI)**)
5. **Srinivas Nallagonda**, Sanjay Dhar Roy and Sumit Kundu, "On performance of a weighted cooperative spectrum sensing with censoring of cognitive radios in rayleigh fading," Int. Journal of Communication Networks and Distributed Systems (IJCNDS), **Inderscience**, vol. 12, no. 2, pp. 202-224, February 2014. (**Scopus, Emerging Sources Citation Index (ESCI)**)
4. **Srinivas Nallagonda**, Shravan kumar Bandari, Sanjay Dhar Roy and Sumit Kundu, "On performance of weighted fusion based spectrum sensing schemes in fading channels," Journal of Computational Engineering (JCE), **Hindawi**, vol. 2013, pp. 1-11, DOI:10.1155/2013/270612, October 2013. (**Google Scholar**)
3. **Srinivas Nallagonda**, Aniruddha Chandra, Sanjay Dhar Roy and Sumit Kundu, "Performance of improved energy detector based cooperative spectrum sensing over hoyt and rican faded channels," **IEICE** Communications Express, vol. 2, no. 7, pp. 319-324, July 2013. (**Emerging Sources Citation Index (ESCI)**)
2. **Srinivas Nallagonda**, Sanjay Dhar Roy and Sumit Kundu, "Performance evaluation of cooperative spectrum sensing scheme with censoring of cognitive radios in rayleigh fading channel," Wireless Personal Communications (WPC), **Springer**, vol. 70, no. 4, pp. 1409-1424, June 2013. (**Scopus, Science Citation Index expanded**) **IF 1.6**
1. **Srinivas Nallagonda**, Sanjay Dhar Roy and Sumit Kundu, "Performance of cooperative spectrum sensing in log-normal shadowing and fading under fusion rules," International Journal of Energy, Information and Communications (IJEIC), **SERSC**, Vol. 3, Issue 3, pp. 15-28, August 2012.

International Conference papers: 14

14. **Srinivas Nallagonda**, Shravan kumar Bandari, Sanjay Dhar Roy and Sumit Kundu, "Performance of cooperative spectrum sensing with soft data fusion schemes in fading channels," in Proc. of IEEE India Conference (**INDICON**), pp. 1-6, IIT Bombay, India, December 2013.
13. **Srinivas Nallagonda**, Aniruddha Chandra, Sanjay Dhar Roy and Sumit Kundu, "On Performance of cooperative spectrum sensing Based on improved energy detector with multiple antennas in hoyt fading channel," in Proc. of IEEE India Conference (**INDICON**), pp. 1-6, IIT Bombay, India, December 2013.
12. **Srinivas Nallagonda**, Sanjay Dhar Roy, Sumit Kundu, Gianluigi. Ferrari, and Riccardo Raheli, "Cooperative spectrum sensing with censoring of cognitive radios with majority logic fusion in hoyt fading," in Proc. of IEEE Advanced Networks and Telecommunications Systems (**ANTS**), pp. 1-6, SRM university, Chennai, India, December 2013.
11. **Srinivas Nallagonda**, Sanjay Dhar Roy, Sumit Kundu, Gianluigi. Ferrari, and Riccardo Raheli, "Performance of MRC-Fusion based cooperative spectrum sensing with censoring of cognitive radios in rayleigh fading channel," in Proc. of IEEE International Wireless Communications and Mobile Computing Conference (**IWCMC**), pp. 30-35, Cagliari, Sardinia, Italy, July 2013.

10. **Srinivas Nallagonda**, Sanjay Dhar Roy and Sumit Kundu, “Cooperative spectrum sensing with censoring of cognitive radios and improved energy detector under LRT fusion,” in Proc. of IEEE India Conference (**INDICON**), pp. 493-498, Kochi, Kerala, India, December 2012.
9. **Srinivas Nallagonda**, Aniruddha Chandra, Sanjay Dhar Roy and Sumit Kundu, “Performance of cooperative spectrum sensing in Hoyt fading channel under Hard decision Fusion rules,” in Proc. of Fifth IEEE International Conference on Computers and Devices for Communication (**CODEC**), pp. 1-4, Kolkata, India, December 2012.
8. **Srinivas Nallagonda**, Sanjay Dhar Roy and Sumit Kundu, “Performance of cooperative spectrum sensing using an improved energy detector in fading channels,” in Proc. of Fifth IEEE International Conference on Computers and Devices for Communication (**CODEC**), pp. 1-4, Kolkata, India, December 2012.
7. **Srinivas Nallagonda**, Shravan kumar Bandari, Sanjay Dhar Roy and Sumit Kundu, “Cooperative spectrum sensing with censoring of cognitive Radios in presence of log-normal shadowing under majority logic fusion,” in Proc. of IEEE International Conference on Communications, Devices and Intelligent Systems (**CODIS**), pp. 413-416, Jadavpur University, Kolkata, December 2012.
6. **Srinivas Nallagonda**, Shravan kumar Bandari, Sanjay Dhar Roy and Sumit Kundu, “Performance of weighted cooperative spectrum sensing schemes in fading channels,” in Proc. of IEEE International Conference on Communications, Devices and Intelligent Systems (**CODIS**), pp. 21-24, Jadavpur University, Kolkata, December 2012.
5. **Srinivas Nallagonda**, Sudheer.S, Sanjay Dhar Roy, and Sumit Kundu, “Cooperative spectrum sensing with censoring of cognitive radios and improved energy detector under majority logic fusion,” in Proc. of IEEE International Conference on Signal Processing, Communications and Computing (**ICSPCC**), pp. 262-267, The Hong Kong Ploy technique University, Hong Kong, August 2012.
4. **Srinivas Nallagonda**, Sanjay Dhar Roy and Sumit Kundu, “Performance of cooperative spectrum sensing in fading channels,” in Proc. of IEEE International Conference on Recent Advances in Information Technology (**RAIT**), pp. 1-6, ISM Dhanbad, India, March 2012.
3. **Srinivas Nallagonda**, Sanjay Dhar Roy and sumit Kundu, “Performance of Cooperative spectrum sensing with censoring of cognitive radios in rayleigh fading channel,” in Proc. of IEEE India Conference (**INDICON**), pp. 1-5, BITS Pilani, Hyderabad Campus, Andhra Pradesh, India, December 2011.
2. **Srinivas Nallagonda**, Sanjay Dhar Roy and Sumit Kundu “Performance of Cooperative spectrum sensing in rician and weibull fading channels,” in Proc. of IEEE India Conference (**INDICON**), pp. 1-5, BITS Pilani, Hyderabad Campus, Andhra Pradesh, India, December 2011.
1. **Srinivas Nallagonda**, Sanjay Dhar Roy and sumit Kundu, “Performance of energy detection based spectrum sensing in fading channels,” in Proc. of IEEE International Conference on Computer & Communication Technology (**ICCT**), pp. 575-580, MNNIT Allahabad, Uttar Pradesh, India, September 2011.

National Conference papers: 03

3. **Srinivas Nallagonda**, Sanjay Dhar Roy, Sumit Kundu, Gianluigi Ferrari and Riccardo Raheli, “Cooperative spectrum sensing with censoring of cognitive radios in rayleigh fading under majority logic fusion,” in Proc. of IEEE National Conference on Communications (**NCC**), pp. 1-5, IIT Delhi, India, February 2013.
2. **Srinivas Nallagonda**, Sanjay Dhar Roy and Sumit Kundu, “Cooperative spectrum sensing with censoring of cognitive Radios in rayleigh fading channel,” in Proc. of IEEE National Conference on Communications (**NCC**), pp. 1-5, IIT Kharagpur, India, February 2012.
1. **Srinivas Nallagonda**, Sanjay Dhar Roy and Sumit Kundu “Performance of cooperative spectrum sensing in rayleigh fading channel,” in Proc. of National conference on Frontiers of Communication and Instrumentation (**COIN**), pp. 1-6, Kolkata, India, December 2011.

### Outside/Post PhD Publications

National and International Conference papers: 20

20. **Srinivas Nallagonda**, Mahendar Gajula, Abhijit Bhowmick, “Performance of generalized  $\alpha$ - $\mu$  fading for energy detection based spectrum sensing in presence of channel errors,” in *Proc. of IEEE 8th International Conference on Advanced Computing and Communication Systems. (ICACCS)*, Coimbatore, Tamil Nadu, India, pp. 1-6, March 2022. Accepted



19. **Srinivas Nallagonda**, Mahendar Gajula, Abhijit Bhowmick, “The Effects of Generalized  $\kappa - \mu$  and  $\eta - \mu$  fading distributions on ergodic channel capacity,” in *Proc. of IEEE 7th International Conference on Advanced Computing and Communication Systems. (ICACCS)*, Coimbatore, Tamil Nadu, India, pp. 1-5, March 2021.
18. Santosh K. Boddupelli, Devendra S. Gurjar, M. Ranjeeth and **Srinivas Nallagonda**, “Energy Efficiency and Throughput Analysis Using IED with Selection Combining in Proposed CSS Network Over Weibull Fading Channel,” in *Proc. of IEEE 7th International Conference on Advanced Computing and Communication Systems. (ICACCS)*, Coimbatore, Tamil Nadu, India, pp. 1-5, March 2021.
17. **Srinivas Nallagonda**, G. K. Kumar, M. Ranjeeth, “Energy-Efficiency Analysis of Cognitive Radio Network with Improved Energy Detectors and SC Diversity over Nakagami-q Fading Environment,” in *Proc. of IEEE International Symposium on Sustainable Energy, Signal Processing and Cyber Security (ISSSC)*, Odisha, India, pp. 1-6, December 2020 (**Best Paper Award**)
16. Gowthami Singamsetty and **Srinivas Nallagonda**, “Throughput Performance Analysis of Cooperative Spectrum Sensing Network with Improved Energy Detectors in Hoyt Fading Environment,” in *Proc. of IEEE International Conference on Electronics, Communication and Aerospace Technology (ICECA)*, Coimbatore, India, pp. 1-6, November 2020.
15. Godugu Kiran Kumar and **Srinivas Nallagonda**, “Implementation of Soft-Data Combining Schemes for Cooperative Cognitive Radio Network over Rayleigh Fading Channel,” in *Proc. of IEEE International Conference for Innovation in Technology (INOCON)*, Bangalore, India, July 2020.
14. R. K. Sreya and **Srinivas Nallagonda**, “Analysis of Cooperative Cognitive Radio Network with Improved Energy Detector and Multiple Transceivers over Nakagami-n Fading Channel,” in *Proc. of 5th IEEE International Conference on Computing, Communication and Automation (ICCCA)*, Romania & Galgotias University, India, July 2020.
13. **Srinivas Nallagonda**, Godugu Kiran Kumar, and Ashok Kumar Nallagonda, “Throughput and energy efficiency of cooperative cognitive radio network over erroneous generalized fading channel,” in *Proc. of 15th IEEE India Conference (INDICON)*, Amrita Vishwa Vidyapeetham, Coimbatore, India, December 2018.
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#### Research Profiles Accounts

Scopus Link: <https://www.scopus.com/authid/detail.uri?authorId=26664801000>

**Scopus Author ID: 26664801000, publications: 55, citations: 269, h-index: 9**

Google Scholar Link: <https://scholar.google.co.in/citations?user=4a5OBK8AAAAJ&hl=en>

**Total Citations:464, H-index: 13, i10-index: 17**

Research Gate Link: [https://www.researchgate.net/profile/Srinivas\\_Nallagonda2/stats/citations](https://www.researchgate.net/profile/Srinivas_Nallagonda2/stats/citations)

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**Declaration**

I consider myself familiar with electronics & communication aspects. I am also confident of my ability to

work in a team. I hereby declare that the information given above is true to the best of my Knowledge & belief.

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