

Personal Information

Name	Dr. Viswanadham Ravuri
Years of Experience	Teaching: 10 Years 10 Months
Email Id	viswanadh.r@bvrithyderabad.edu.in
Areas of Specialization	Embedded Systems & Signal Processing and Communications



Educational Qualifications

Doctoral Degree	Ph.D.	ECE - Signal Processing & Communications
PG Degree	M.Tech.	Embedded Systems
UG Degree	B.E.	Electronics and Instrumentation Engineering

Patent Filed

Automatic Smart Monitoring Device for Hydroponic Farm Operated by Internet of Things (IoT) - Published.

Dr. Viswanadham Ravuri, Associate Professor, BVRITH
Application no. 201941026003.

Automatic Monitoring Device for Hydroponic Farm

Dr. Viswanadham Ravuri, Associate Professor, BVRITH
Application no. 201941026002.

Automatic System for Controlling and Monitoring of Hydroponic Farm.

Dr. Viswanadham Ravuri, Associate Professor, BVRITH
Application no. 201941025995.

Papers Published

International Journal Publications

1. **Viswanadham Ravuri**, T. Sudheer Kumar, S.S.Nayak, “Reconstruction of Level Cross Sampled Signals Using Sparse Signals & Backtracking Iterative Hard Thresholding”, Journal of Scientific and Industrial Research, Vol.80, March, 2021 (**SCI**)
2. **Viswanadham Ravuri**, T. Sudheer Kumar, S.S.Nayak, “Performance Evaluation of Compressive Sensing based Matching Pursuit IHT Algorithm for Sparse Reconstruction”, Journal of Intelligent & Fuzzy Systems, October, 2020, DOI: 10.3233/JIFS-189417 (**SCI**).
3. **Viswanadham Ravuri**, T. Sudheer Kumar, S.S.Nayak, “An Iterative Algorithm for Reconstruction of Level Cross Sampled Signals”, Journal of Green Engineering, November, 2020. (**SCOPUS**)
4. **Viswanadham Ravuri**, T. Sudheer Kumar, S.S.Nayak, “Event Driven Sampling with Activity Selection & Asynchronous Sigma Delta Modulator”, Test Engineering & Management, Vol.83, page. 17163 – 17168, March- April 2020. (**SCOPUS**)

5. **Ravuri V.**, Terlapu S.K., Nayak S.S. A Survey on Non-Uniform Sampling using Level Crossing Techniques, International Journal for Research in Engineering Application & Management, vol.4, Issue 2, May-2018.
6. **R.Viswanadham**, G.R.L.V.N.S.Raju, “Reconstruction of Periodic Band limited Signals from Non-uniform Samples”,IJMTST-2017.
7. **R.Viswanadham**, T.Sairam Vamsi, “An Industrial Survivance Sensoric Robot Controlling through ARDUINO and GSM” International Journal of Control Theory and Applications **Volume:** No.9 (2016) **Issue No. :**23 (2016) (**SCOPUS**).
8. **R.Viswanadham**, N.Madhavi, “Design And Implementation Of Pseudo Random Number Generator Used In AES Algorithm” International Journal for Research in Applied Science & Engineering Technology, Special Issue-3, November 2014 SJ Impact Factor-3.995 ISSN: 2321-9653.

International Conference Publications

1. **Viswanadham Ravuri**, M.V.Subbarao, T. Sudheer Kumar, T.Sairam Vamsi, “Performance Analysis of 5G Micro-Cell Coverage with 3D Ray-Tracing”,INDIA-2022.(**SCOPUS**).
2. **Viswanadham Ravuri**, M.V.Subbarao, T. Sudheer Kumar, “Pathloss modelling and channel characterization at 28GHz 5G Microcell Outdoor Environment using 3D Ray -Tracing”,IEEE-ICAECT, April,2022(**SCOPUS**).
3. **Ravuri V.**, Terlapu S.K., Nayak S.S. (2021) “Adaptive Level Cross Sampling for Next-Generation Data-Driven Applications”. In: Chowdary P., Chakravarthy V., Anguera J., Satapathy S., Bhateja V. (eds) Microelectronics, Electromagnetics and Telecommunications. Lecture Notes in Electrical Engineering, vol 655. Springer, Singapore (**SCOPUS**).
4. **R.Viswanadham**,T.Sudheer Kumar, M.V.Subba Rao (2018)“Implementation Of Level-Crossing Techniques For Cellular Mobile Applications”, In: Chowdary P., Chakravarthy V., Anguera J., Satapathy S., Bhateja V. (eds) Microelectronics, Electromagnetics and Telecommunications. Lecture Notes in Electrical Engineering, Vol.471, Springer (**SCOPUS**).
5. **R.Viswanadham**, A.Narayana Kiran, “An Embedded Intelligent Energy Conserving System Using Real Time Clock” International Conference on Innovations in Information Embedded and Communication Systems, Karpagam Engineering College,2016
6. **R.Viswanadham**, T.S.Kavita, “Remote Surveillance System using GSM”,ICNB-2011,Raghu Engineering College, Visakhapatnam.

FDP's Attended

1. Participated Hybrid Seasonal School on Recent Advances in Artificial Intelligence for Signal Processing” organized by IEEEVNRVJIET SPS in association with SPS & WIE AG,IEEE Hyderabad Section during 28-31 December,2021.
2. Participated in a 3 Day FDP on “Recent Advances in IOT and Machine Learning: Application and Hands-On” organized by Raghu Engineering College,Visakhapatnam during 16-18 December,2021.
3. Participated Medical Device Innovation Camp (e-MEDIC) held virtually from 02-24, October, 2021 by BETIC,IIT, Bombay.

4. Participated in a Two week online workshoon “Growing Entrpreneural Mindset” Organized by Shri Vishnu Engineering College for Women during 31 May-14 June 2021.
5. Participated in a OFDP on Entrepreneurship organized by APSSDC sponsored by DST during 1-13,February,2021.
6. Participated in AICTE ATAL OFDP on training for “Social Connectedness & Inspiration” organized by SVCE,Bengaluru during 14-18,December,2020.
7. Participated in AICTE sponsored STTP on Data Science for 5G” organized by SVCE,Bengaluru during 3-8,August,2020.
8. Participated in AICTE sponsored STTP on “Compressive Sensing Techniques for 5G Cellular Networks using MATLAB” organized by SVCE,Bengaluru during 22-27, July,2020.
9. Participated in AICTE sponsored STTP on AQIS Programme on “Optimization Techniques for 5G Cellular Networks” by SVCE,Bengaluru during 13-18, July,2020.
10. Participated in OFDP on “Trends in Electronics & Communications Engineering” organized by Sri Vasavi Engineering College,Tadepalligudem during 22-26,June,2020.
11. Participated in a Two day online FDP on MATLAB & Simulink in Engineering Applications,10-11,June,2020 by APSSDC.
12. Participated in a One week online FDP on “Teaching, Learning, and Assessment Strategies” Organized by IEEE Education Society Chapter of IEEE Hyderabad Section during 18 – 23 May 2020.
13. Participated in a Three day STTP on Recent Trends in Radar Signal Processing and IoT Applications,18-20 June,2020,BVRIT,Narsapur
14. Participated in a Four Week online FDP on Python3.4.3 during January Semester by Gurunanak Institute of Technology, Hyderabad.
15. Participated in a Medical Device Innovation Camp-2019 during 28-09-2019 to 02-10-2019 at IIT,Bombay.
16. Participated in a workshop on sparse signal processing and random sampling at NIT,Rourkela during 11-12-2017 to 15-12-2017.
17. Participated in Faculty Development Programme on “Advanced Digital Signal Processing and Applications” organized by E&ICT Academy,NITW, at MVGR College of Engineering,Vizianagaram during 8-13,November,2016
18. Participated Two week FDP on “Recent Trends and Advancements in VLSI for Embedded Applications” in CBIT,Hyderabad during June 17th to 30th,2015.
19. Participated in Two day workshop on “Embedded Systems” in MVGR college of Engineering College,Vizianagaram during 5th to 7th January 2015.
20. Participated in a Two-Week ISTE workshop on “Pedagogy for Effective use of ICT in Engineering Education” organized by IIT,Bombay during 12 June-02 Aug,2014
21. Participated in Intensive faculty training & Development Program on “Androgogy & Pedagogy and Facilitating Skills” in BVRIT, Narsapur Campus during 10-15,September, 2012.
22. Participated in Staff development program MISSION10X by WIPRO in April,2012 at SSIT,Sathupalli.

Professional Memberships:

- Senior Member in IEEE
- Treasurer, IEEE Education Society, Vizag bay Section
- IEEE Membership in Signal Processing Society
- Associate Member in IETE-AM-237180
- Associate Member in IE-AM165691-3
- Member in IAENG-329401

Certifications

- Advanced Certification course on “Data Science using Python” during August, 2021-May, 2022 from IIIT, Bangalore.
- NPTEL course on “Accreditation and Outcome based Learning”, Aug-Oct, 2019.
- NPTEL course on “Principles of Modern CDMA/ MIMO/ OFDM Wireless Communications”, Aug-Oct, 2019

Any Other Achievements

A) Under my guidance

1. The project of my students “Buzzing Band” received “Gandhian Young Technological Innovation Award” from the President of India in March,2018.
2. The Project titled “Smart Farming System using Hydroponics” in the competition IICDC 2018 conducted by TEXAS Instruments & AICTE by my students bagged 5 Lakhs as Product Development Fund.
3. The project titled “MY MEDIC” done by my students, attracted an amount of 2.2Lakhs funding from IIT,Bombay.
4. The project ”Maestro Detector” by my students got selected for finals of L&T Techgium Contest, 2018.

B) Best Project Awards

1. My project in “Helmet Therapy for Craniosynostosis ” bagged Best Innovative Solution award in EMEDIC-2021 at IIT Bombay.
2. My project in “Lung Volume Measurement ” bagged Best Screening Device award in MEDIC-2019 at IIT Bombay.

C) Best Paper Award

1. R.Viswanadham,T.Sudheer Kumar, M.V.Subba Rao, “Implementation of Level-Crossing Techniques For Cellular Mobile Applications”, received Best Paper Award in ICMEET-2017,Hyderabad.