

RESUME

NAME : Ram Nishanth Vanka
QUALIFICATION : M.Tech (*Communications Systems*)
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CAREER OBJECTIVE

- To be in a highly reputed, eminent educational institute and to gain exceptional career move ahead through long efforts and performance regularity.

ACADEMIC QUALIFICATIONS

Qualification	College/University
M.Tech (Comm. Sys.)	ANIL Neerukonda Institute of Technology and Sciences, Visakhapatnam
B.Tech (ECE)	Raghu Engineering College, Visakhapatnam

PROJECT WORK

Project Title : 'Adaptive Blind Equalization using Stochastic Gradient Family of Algorithms'

Description : One of the major practical problems in digital communication systems is Inter Symbol Interference (ISI) which results because of distortion in linear band-limited channels. ISI can be countered by channel equalization. Equalization can be classified as supervised and unsupervised (blind).

In supervised equalization a training period exists for initial training of the equalizers weights. In blind equalization initial training period doesn't exist. In this thesis, performance of blind equalization algorithms Generalized Sato (GSA), Constant Modulus Algorithm (CMA), Wei Rao's modified CMA and Stop—and-Go decision directed algorithm is compared. The performance comparison is done with the help of convergence curves of the algorithms in order to achieve which blind algorithm achieves faster convergence.

TEACHING EXPERIENCE

As an Assistant Professor at Gayatri Vidya Parishad College for Degree and PG Courses (A) since June 16, 2014 till date.

RATIFICATION

Ratified as an Assistant Professor in March, 2016 by Andhra University.

SUBJECTS DEALT

- Digital Image Processing
- Analog Communication
- Telecommunication Switching Systems
- Television and Satellite Communication
- Linear Integrated Circuits and Applications
- Electrical Technology
- Instrumentation and Control Systems
- Industrial Electronics

ACADEMIC ACHIEVEMENTS

- Achieved a pass percentage of 65% or more in the subjects dealt so far.

NON- TEACHING ACHIEVEMENTS

- Served as attendance coordinator for the department
- Served as examination cell coordinator
- Served as Executive Committee Member to “Two Day International Conference on Recent Innovations in Engineering, Science, Humanities and Management (ICRIESHM-2016)”

PAPER PUBLICATIONS

- Published a paper in **GVP Journal of Science Technology and Management** Volume 01 No. 1 (2017). Title: **“ADAPTIVE BLIND EQUALIZATION OF 16-QAM TRANSMITTED CONSTELLATION”**
- Published a paper in **Journal of the Instrumentation Society of India** Volume 47 No. 1 (March 2017). Title: **“Performance Analysis of SGA and LSE Family of Algorithms in Adaptive Noise Cancellation applied to Fetal Electrocardiogram”**
- Published a paper in **IOSR -JVSP** (International Organization of Scientific Research-Journal of VLSI and Signal Processing) Volume 4, Issue 3, Version I (May-Jun. 2014). The title of the paper: **“Adaptive Blind Equalization of QAM Transmitted Constellations across Linear Band-Limited Channel”**.
- Published a paper at **IEEE Sponsored International Conference on Signal Processing & Integrated Networks (SPIN 2014)**, Amity University, Noida. Title: **“Performance Comparison of Supervized and Unsupervised/Blind Equalization Algorithms for QAM Transmitted Constellations”**. This above paper has been published in **IEEE Xplore** Digital Library.

ACCOLADES

- Achieved **BEST PAPER** award for “**ADAPTIVE BLIND EQUALIZATION OF 16-QAM TRANSMITTED CONSTELLATION**” presented in **IEEE Technically Co-Sponsored** Conference on Emerging trends in Signal Processing and Communication Engineering (SPACE) on 20 and 21 February, 2015 at ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT.
- Multiple Citations for my paper “**Performance Comparison of Supervized and Unsupervised/Blind Equalization Algorithms for QAM Transmitted Constellations**” by foreign authors.

FACULTY DEVELOPMENT PROGRAMMES ATTENDED

- FDP Certified Twelve Week Course **NBA Accreditation and Teaching-Learning in Engineering** (NATE) during Jan-April 2020 online courses
- A three day online FDP on “**Antenna Design and Analysis using FEKO**”, from 22.06.2020 to 24.06.2020. organised by Department of ECE, Engineering and Technology Program, Gayatri Vidya Parishad College for Degree and PG Courses(A)
- A Three Day National Level Online FDP on “**Image Processing and Computer Vision (IPCV)**”, organized by Department of Electronics and Communication Engineering, Anil Neerukonda Institute of Technology and Sciences (ANITS), Visakhapatnam, during 29th- 31st May 2020.
- A five day online FDP on “**ARTIFICIAL INTELLIGENCE**”, from 22 May - 26 May, 2020 organised by Department of Computer Science and Engineering, Engineering and Technology Program, Gayatri Vidya Parishad College for Degree and PG Courses(A)
- FDP Certified Four Week Course **Cognition, Transformation and Lives** during July-August 2019 online courses
- FDP Certified Four Week Course **Cognition, Transformation and Lives** during July-August 2019 online courses
- FDP Certified Four week Course **Effective Engineering Teaching in Practice** during January-April 2019 NPTEL online courses
- FDP Certified Four week Course **Outcome Based Pedagogic Principles for Effective Teaching** during August-September 2018 NPTEL online courses
- FDP Certified Eight Week Course **Introduction to Research** during August-September 2018 NPTEL online courses
- A two week AICTE sponsored FDP on “**PEDAGOGICAL TRAINING ON OUTCOME BASED EDUCATION**” ORGANIZED by Gayatri Vidya Parishad College of Engineering (A) from 18 to 30 December, 2017, Visakhapatnam, Andhra Pradesh.
- A six day FDP on “**WIRELESS COMMUNICATION TECHNOLOGIES**’ organized by the **E&ICT Academy, National Institute of Technology, Warangal** from August 29 to 03 September 2016, at the Department of ECE, Gayatri Vidya Parishad College of Engineering (A), Visakhapatnam, Andhra Pradesh.

FACULTY INDUCTION PROGRAMMES ATTENDED

- A four week FIP for "Faculty in Universities/Colleges/Institutes of Higher Education" from June 04 - July 01, 2020 held by TLC Ramanujan College (University of Delhi) sponsored by MHRD Pandit Madan Mohan Malviya National Mission on Teachers and Teaching

WORKSHOPS ATTENDED

- A online workshop on **"The BodhiTree and SAFE Tools for Effective Online Teaching: A Hands-On Workshop"** , organised by the Teaching Learning Centre (ICT) at IIT Bombay in June, 2020, funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT), MHRD, Govt. of India.
- A National level one week online workshop on **"Online Teaching Learning Processes using ICT Tools for education 4.0 Part 3"**, organized by department of Information Technology, St. Vincent Palloti College of Engineering and Technology , Nagpur, Maharashtra from 20 to 25 July, 2020.
- An online workshop on **"Effective and Efficient Online Teaching in the Age of Corona, A Hands On Workshop"**, organised by the Teaching Learning Centre (ICT) at IIT Bombay in May, 2020, funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT), MHRD, Govt. of India.
- A one day National Workshop on **"Role of IPR in Innovation Management and Academia-Industry Collaboration"**, organized by National Research development Corporation (NRDC) at Andhra University on December 15, 2018, Visakhapatnam, Andhra Pradesh.
- A one day National Workshop on **"Quality Measures in Technical Education "**organized by Internal Quality Assurance Cell (IQAC) on 18 March, 2017, Gayatri Vidya Parishad College of Engineering (A), Visakhapatnam, Andhra Pradesh.
- A five day National Workshop on **"Advanced Signal Processing in Electronics and Telecommunications (WASET-2k16)"** from 21 to 25 March, 2016, sponsored by **DST, New Delhi, Govt of India** and organized by the Department of ECE, **GMR Institute of Technology-** Rajam, Srikakulam Dist., Andhra Pradesh.

SEMINARS ATTENDED

- A webinar on, **"Open Source Tools & Softwares in Remote Teaching and Learning"** held on 5 July, 2020 organised by Department of Civil Engineering, Engineering and Technology Program, Gayatri Vidya Parishad College for Degree and PG Courses(A).
- A webinar on, **"Evolution and Dissemination of IPR and Innovations for Sustainable Development "**, held on May 30, 2020 organized by Entrepreneur Development Cell, Dadi Institute of Engineering and Technology.
- A webinar on, **"Computational Electromagnetic techniques for different RF Microwave and Millimeter-wave Application"** held on 25 May, 2020 organised by Department of ECE Engineering and Technology Program, Gayatri Vidya Parishad College for Degree and PG Courses (A).
- A one day seminar on **"ENGINEERING EDUCATION & RESEARCH SEMINAR"**, conducted by **NATIONAL INSTRUMENTS INDIA** on 19 August, 2015 at Kakinada, Andhra Pradesh.

WEBINARS ATTENDED

- Successful Completion of webinar on “**RTL Design and Functional Verification**”, conducted by **maven SILICON** on June 29, 2018.

NPTEL Certification

- Certified **Elite+SILVER** in the Twelve Week Course **NBA Accreditation and Teaching-Learning in Engineering (NATE)** during Jan-April 2020 online courses
- **Certified Elite+SILVER** in the Four week Course **Cognition, Transformation and Lives** during July-August 2019 online courses
- Certified **Elite** in the Four week Course **Effective Engineering Teaching in Practice** during January-April 2019 online courses
- Certified **Elite** in the Four week Course **Outcome Based Pedagogic Principles for Effective Teaching** during August-September 2018 online courses
- Certified **Elite** in the Eight Week Course **Introduction to Research** during August-September 2018 online courses
- Successfully Completed Four week course **Principles of Communication Systems II** during July-September 2017 online courses

Professional Society Membership

- IAENG (International Association of Engineers)

SKILLS

Technical: MATLAB, Basics of C Language, Microsoft Office, Microsoft PowerPoint

Languages : Telugu, Hindi and English

STRENGTHS

- Proficiency in English speaking
- Proficiency in Public speaking
- Zeal to learn
- Responsible
- Good capabilities in topic analyzing
- Time Sense

DECLARATION

I hereby declare that the given information is true and correct to the best of my knowledge and belief.