

RESUME

Name: Dr.N.Venkateswara Rao
Address (Office): Professor and Head,
E.C.E Department,
Bapatla Engineering College
Bapatla-522 101
Guntur (Dt), A.P



Academic Qualifications: B.Tech (J.N.T,University, Kakinada)
M.E (Osmania University)
Ph.D (J.N.T.U, Hyderabad)

Teaching Experience: 30 Years

Administrative Experience:

- (1) Warden of Boys Hostel at NBKRIST, Vidyanagar for 5 Years
- (2) Warden of Ladies Hostel at Bapatla Engg. College for 9 years.
- (3) Head of E.C.E Dept., BEC, Bapatla from 2014 to 2015.
- (4) Incharge Principal of Bapatla Engg. College for one month in 2018.
- (5) Worked as Chief Superintendent of examinations , BEC, Bapatla.
- (6) Presently working as Head of E.C.E Dept., BEC, Bapatla.

Additional Works :

Incharge for Electronic Devices and circuits Lab at DCET.
Incharge for Communication Lab at NBKRIST.
Incharge for Advanced Communication Lab at B.E.C.
R and D coordinator of ECE Dept. of B.E.C.
Convener of Academic Monitoring Team-2 of B.E.C.

Membership: Fellow of IE (F-122817-6)
Member of ISTE (LM 32411)

No. of Ph.D's Awarded: 1

No. of Ph.D scalars Guiding: 9

Guest Lecture's Delivered:

Guest lecture delivered at Malineni Lakshmaiah College of Engineering, Singarayakonda, Prakasam (Dt) on 29-12-2011.

Topic: Trends in wireless Communication

Work shop/Seminar/Short term courses attended:

1. Silver Jubilee seminar on "Future GPS and its issues", 7th September, 2007, NERTU, Osmania University, Hyderabad.
2. Intensive course on "Global navigation Satellite Systems", 15-17, November 2006, NERTU, Osmania University, Hyderabad.
3. Short Term course on "Novel studies and applications of Microwave frequency Radiation for Science and technology of Future", 5-11, December, 2005, IIT Madras, Chennai.
4. Short Term course on "Instructional Design and Delivery", 24-29, October 2005, National Institute of Technical Teachers Training and Research, Chennai, Government of India, MHRD.
5. Short Term course on "Microwave Techniques", November, 2-8, 1993, Dept. of E.C.E, O.U. College Of Engineering, Osmania University, HYD.

Technical publications: International Journals: 41
National Journals: 2
International Conferences: 6
National Conferences: 14

DETAILS OF PUBLICATIONS :

A.INTERNATIONAL JOURNAL PAPERS

- 1 Vijaya Kumar Padarti, N. Venkateswara Rao, “ Adaptive SOICAF Algorithm for PAPR Mitigation in OFDM Systems”, *Wireless Personal Communications* (2020) 113:927–943
<https://doi.org/10.1007/s11277-020-07260-y>, Springer,
- 2 *Ramakrishna Guttula and Venkateswararao Nandanavanam, “Design and Analysis of Ultra Wideband Octagonal Circular Ring Patch Antenna using Defected Ground Structures”, International Journal of Advanced Science and Technology Vol. 29, No.02, (2020), pp. 2265-2276*
- 3 *Ramakrishna Guttula and Venkateswararao Nandanavanam, “Analyzing the Design of the Octagonal Patch Antenna at 67 GHz with Altering Dimensions”, International Journal on Emerging Technologies 11(1): 29-35(2020), ISSN No. (Print): 0975-8364
ISSN No. (Online): 2249-3255.*
- 4 Shaik Khaleelahmed, Nandhanavanam VenkateswaraRao, “ Energy Efficient Power Allocation Using Salp Particle Swarm Optimization Model in MIMO–NOMA Systems”, *Wireless Personal Communications*
<https://doi.org/10.1007/s11277-019-06911-z>, Springer, 06-01-2020.
5. Padarti Vijaya Kumar, N.Venkateswara Rao, “ A survey on mitigation techniques of papr in ofdm mimo and massive mimo systems”, *international journal of current engineering and scientific research (IJCESR)*, ISSN (PRINT): 2393-8374, (ONLINE): 2394-0697, VOLUME-6, ISSUE-6, 2019.
6. Shaik Khaleelahmed, Nandhanavanam Venkateswararao, “ Energy Efficient Fractional Particle Swarm Optimization Based Power Allocation in MIMO–NOMA System”,
International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-11, September 20.
7. Shaik Khaleelahmed, Nandhanavanam Venkateswararao, “ Salp Swarm Algorithm Based Priority Scheduling For Energy-Efficient Power Allocation In MIMO–NOMA System”, *INTERNATIONAL JOURNAL OF SCIENTIFIC & TECHNOLOGY RESEARCH* VOLUME 8, ISSUE 09, SEPTEMBER 2019 ISSN 2277-8616.

8. G.Rama Krishna, Dr. N.Venkateswara Rao, "A Compact design of Ultra Wideband Antenna with 5.5 G Hz to 5.9 G Hz Dual band characteristics", International journal of Innovative Technology and Exploring, Vol.8, Issue. 11, September 2019, pp. No. 3438-3442.
9. Padarti Vijaya Kumar, Venkateswara Rao Nandanavanam, " Performance Analysis of OFDM-based Massive MIMO Downlink System", International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8, Issue-3, September 2019.
10. . Vijaya Kumar Padarti, Venkateswara Rao Nandanavanam, " Performance Evaluation of Coexistence of WiFi and LTE Licensed-Assisted Access to Unlicensed Spectrum using Markov chain Analytical Model", International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-8 Issue-6, August, 2019
11. G.Rama Krishna, Dr. N.Venkateswara Rao, "Patch antenna Design optimization using opposition based Grey wolf optimizer and map reduce frame Work" Data technologies and Applications, SCI journal, Accepted on 29 August 2019.
12. G.Rama Krishna, Dr. N.Venkateswara Rao, "Mutation Probability based lion algorithm for design and optimization of microstrip patch antenna", Springer, Evolutionary intelligence , Published online 27 September 2019.
13. Khaleelahmed SK, VenkateswaraRao N," Priority Based Scheduling for Energy Efficient Power Allocation in MIMO-NOMA System with Multiple Users ", International Journal of Intelligent Engineering and Systems, Vol.12, No.4, Pp :348-357, 2019, (Scopus).
14. Khaleelahmed SK, VenkateswaraRao N," Systematic Analysis And Strategic Review Of MIMO- NOMA Systems", ARPN Journal of Engineering and Applied Sciences ,Vol.14, No.5, Pp:993-1004,2019, (Scopus) .
15. Mrs. P Dhana Laksmi, Prof. N Venkateswara rao, " Spectrum Sensing using single ring law" International Journal of Innovative Technology and Exploring Engineering (IJITEE), Vol.8 No.4, February 2019, ISSN: 2278-3075. [Free Scopus]
16. P.Dhana Lakshmi and ProfP N.Venkateswara Rao, "Improvement in Probability of Detection Using Diversity Techniques in Cognitive Radio", Journal of Emerging Technologies and Innovative Research (JETIR), February 2019, Volume 6, Issue 2.
17. Mrs. P Dhana Laksmi, Prof. N Venkateswara rao, "Performance Comparison of Eigenvalue based Blind Spectrum Sensing Algorithms" International Journal of Engineering advanced Technology (IJEAT), Vol.8 No.3, February 2019, ISSN: 2249-8958.
[Free Scopus]

18. Mrs. P Dhana Laksmi, Prof. N Venkateswara rao, "On the Performance of Single Ring Law based Sensing Approaches for Opportunistic Spectrum Access" Engineering Science And Technology, an International Journal 21(2018) 24-34. [ELSEVEIR]
19. Chandrasekhar Rao Jetti, Venkateswara Rao Nandanavanam, "Trident-shape strip loaded dual band-notched UWB MIMO antenna for portable device applications", Elsevier Journal, AEU-International journal of Electronics and Communications, Vol.83, January 2018, Pages 11-21.
20. Padarti Vijaya Kumar , Venkateswara Rao Nandanavanam "A novel method for joint- PAPR mitigation in OFDM-based massive MIMO downlink systems", International Journal of Engineering & Technology, 7 (3) (2018), PP. 1185-1188.
21. Khaleelahmed SK , Venkateswararao N , Varshasree KN , P.V. Naidu , "Improving MIMO system throughput using power transmission scheduling", International Journal of Engineering & Technology, 7 (3) (2018) pp.1181-1184.
22. Chandrasekhar R. Jetti and Venkateswara R. Nandanavanam, "Compact MIMO Antenna with WLAN Band-Notch Characteristics for Portable UWB Systems", Progress In Electromagnetics Research C, Vol. 88, 1–12, 2018.
23. Chandrasekhar R. Jetti and Venkateswara R. Nandanavanam, "A Very Compact MIMO Antenna with Triple Band-Notch Function for Portable UWB Systems", Progress In Electromagnetics Research C, Vol. 82, 13–27, 2018.
24. Nandanavanam Venkateswara Rao, Bellamkonda Lavanya et.al., " A Reconfigurable Microstrip Patch antenna with Various Patches", International Journal of Modern Electronics and Communication Engineering (IJMECE) ISSN: 2321-2152 Volume No. - 6, Issue No. – 2, March, 2018, pp.30-35.
25. J. CHANDRASEKHAR RAO, N. VENKATESWARA RAO et.al., "A COMPACT ULTRA WIDEBAND ANTENNA WITH BAND NOTCHES AT WIMAX AND WLAN BANDS", Journal of Theoretical and Applied Information Technology 15th May 2017. Vol.95. No 9, pp. 2088-2095.
26. J. Chandrasekhar Rao, N. Venkateswara Rao et.al., "A COMPACT CPW-FED ULTRA-WIDEBAND MIMO ANTENNA WITH BAND NOTCH CHARACTERISTIC AT WLAN BAND", Journal of Advanced Research in Dynamical and Control Systems Vol. 9. Sp- 14 / 2017, pp.2727 -2738.

27. D.B.V.Ravisankar and N.Venkateswara Rao, "A SURVEY OF COOPERATIVE SPECTRUM SENSING APPROACHES AND DATA FUSION SCHEMES IN COGNITIVE RADIO NETWORKS", International Journal of Electrical and Electronic Engineering & Telecommunication, Vol. 6, No. 2, April 2017, pp.73-79.
28. P Dhana Lakshmi and N Venkateswara Rao," SPECTRUM SENSING FOR GREEN COGNITIVE RADIO COMMUNICATIONS: A SURVEY", International Journal of Electrical and Electronic Engineering & Telecommunication, Vol. 6, No. 2, April 2017, pp.89-95.
29. J Chandrasekhar Rao and N Venkateswara Rao, "A WIDEBAND SYMMETRIC SQUARE SLOTTED MICROSTRIP ANTENNA FOR WIRELESS COMMUNICATIONS", International Journal of Electrical and Electronic Engineering & Telecommunication, Vol. 6, No. 2, April 2017, pp.18-23.
30. J Naga Surekha, Y Sri Chakrapani and N.Venkateswara Rao, "A SURVEY OF TRENDS IN LOCAL INVARIANT FEATURE DETECTORS", International Journal of Electrical and Electronic Engineering & Telecommunication, Vol. 6, No. 2, April 2017, pp.9-1
31. Ch.Uma, P. Dhana lakshmi and N. Venkateswara Rao, "Blind Spectrum Sensing in Cognitive Radio using BPSK and QPSK Modulation Techniques", International Journal of Electronics, Electrical and Computational System(IJEECS), ISSN 2348-117X, NITTTR717, Volume 6, Issue 6 June 2017,pp197-201.
32. J.Chandrasekhar Rao, N.Venkateswara Rao, B.T.P.Madhav, V. Vasavi, K.Vyshnavi and G.S.K Yadav, "COMPACT UWB MIMO SLOT ANTENNA WITH DEFECTED GROUND STRUCTURE", ARPN Journal of Engineering and Applied Sciences, VOL. 11, NO. 17, SEPTEMBER 2016, pp.10487-10495
33. G.Rama Krishna, Dr. N.Venkateswara Rao G. Anil Kumar, "A DESIGN OF DOUBLE SWASTIKA SLOT MICROSTRIP ANTENNA FOR ULTRA WIDE BAND AND WIMAX APPLICATIONS", International Journal on Cybernetics & Informatics (IJCI) Vol. 5, No. 4, August 2016,pp.39-46.

34. J.Chandrasekhar Rao and N.Venkateswara Rao, "CPW-Fed Compact Ultra Wideband MIMO Antenna for Portable Devices", Indian Journal of Science and Technology, Vol. 9 (17), 10.17485/ijst/216/v9i17/93046, May 2016.
35. A Sai Naga Sweta, K Vijayachandra, Md Taj and N. Venkateswara Rao, " Design and Implementation of Reed Solomon Error Correcting Codes in FPGA Environment using VERILOG", International Journal of Applied Engineering Research, ISSN 0973-4562 Volume 9, Number 21 (2014) pp. 9751-9763
36. N. Venkateswara Rao, G.Madhuri, B.Venkatesh and Ch.Dhanunjai, "Influence of Major Geomagnetic Storms Occurred in the Year 2011 On *TEC* Over Bangalore Station In India", International Journal of Electronics and Communication Engineering, Volume 6, Number 1 (2013), pp.105-110
37. N. Venkateswara Rao , T.Madhu, Sk. Bibibathula, P.Prathyusha and Y. Anusha."Variations of *TEC* over Bangalore station during the year 2003", International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Vol. 2, Issue 3, March 2013,pp-1117-1122, ISSN(Print) :2320–3765
38. N.Venkateswara Rao, T. Madhu & K. Lal Kishore, "Diurnal, monthly and storm time variations of *TEC* over a low latitude station: Hyderabad, India during the year 2003 for GPS applications", International Journal Of Electronics & Telecommunication and Instrumentation Engineering (IJETIE), ISSN 0974-4975, Volume 06, Issue No 1, October 2011-December 2011, pp.30-39.
39. N.Venkateswara Rao, T. Madhu , & K. Lal Kishore ,"Study of major geomagnetic storms influence on *TEC* over Hyderabad station ", International Journal of Electronics Engineering (IJEE), pp. 59– 66, Vol.3, No.1 of June 2011, ISSN:0973-7383
40. N.Venkateswara Rao, T. Madhu , & K. Lal Kishore ,"Geomagnetic storm Effects on GPS Aided Navigation over Low latitude South Indian Region", International Journal of Computer Science and Network security (IJCSNS),Vol.10., No.3, March,2010, pp37-42.
41. N.Venkateswara Rao, T. Madhu , & K. Lal Kishore ,"Variations in *TEC* Over Hyderabad Station in India During October 2003 Storm", International Journal of Electronics and Communication Engineering. ISSN 0974-2166 Volume 3, Number 1 (2010), pp. 293-304

B. NATIONAL JOURNALS

1. CH Uma, Mrs P Dhana Lakshmi and Dr N Venkateswarao, “ Blind Spectrum Sensing Using Amplitude Modulation Technique”, pp.87-90, ANU Journal of Engineering & Technology, ISSN: 0976-3414, Special Edition, March 2017 Acharya Nagarjuna University.
2. Dr. N.Venkateswara Rao, D.Omkar , A.Spandana and A.Navyadeepika, “Analysis of Planar Inverted-F Antenna”, pp.214-216, ANU Journal of Engineering & Technology, ISSN: 0976-3414, Special Edition, March 2017 Acharya Nagarjuna University.

C.INTERNATIONAL CONFERENCES

1. P.Vijaya Kumar and Dr. N.Venkateswara Rao, “ A Novel Method For ICI Cancellation in OFDM Systems”, Third IEEE International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques (ICEECCOT), 14-15, December 2018, GSSS Institute of Engg. And Tech. for women, MYSURU-570016.
2. Ch.Uma, P. Dhana lakshmi and N. Venkateswara Rao, “Blind Spectrum Sensing in Cognitive Radio using BPSK and QPSK Modulation Techniques”, 2nd International Conference on New Frontiers of Engineering Science, Management and Humanities, ICNFMH-2017, 11-06-2017, NITTTR, Chandigarh, India.
3. G. Rama Krishna, Dr. N.Venkateswara Rao, “Microstrip Antenna Embedded with Circular Split ring resonator for WLAN Applications” , IEEE International Conference on “Innovations in Power and Advanced Computing Technologies, i-PACT-2017”, Paper ID-69, 21,22 March 2017,VIT University, Vellore.
4. N.Venkateswara Rao, T. Madhu & K. Lal Kishore, “*TEC* Estimation using a Neural Network approach for Hyderabad station in India”, International Conference- NAVCOM-12, “Research and Training Unit for Navigational Electronics (NERTU)”,Osmania University, Hyderabad, December 20-21, 2012

5. E.V.L.N Rangacharyulu, C.V.R.Sriilalith Narayana, N.Venkateswara Rao and K.Lal Kishore, "Carbon nano tube MOSFET parameter optimization using Taguchi method", "PDE, Scientific computing and optimization in application, Oct 7-9, 2009, IIT KANPUR".
6. N.Venkateswara Rao,T. Madhu,&K.Lal Kishore,"Geomagnetic storm effects on GPS applications in India","PDE, Scientific computing and optimization in application, Oct 7-9, 2009, IIT KANPUR".

D.NATIONAL CONFERENCES

- 1 P.Dhana lakshmi, Dr.N.Venkateswara Rao, "Spectrum Sensing for Green Cognitive Radio Communications", National Conference on Emerging Trends in Electronics and Communication Engineering(NCETEC-2017)", Bapatla Engineering College, Bapatla-522 102, 20,21 January, 2017.
- 2 D.B.V.Ravisankar, Dr.N.Venkateswara Rao, "A survey of Cooperative Spectrum Sensing Approaches and Data Fusion Schemes in Cognitive Radio Networks", National Conference on Emerging Trends in Electronics and Communication Engineering(NCETEC-2017)", Bapatla Engineering College, Bapatla-522 102, 20,21 January, 2017.
- 3 G.Rama Krishna, Dr.N.Venkateswara Rao, "Design of a probe feed patch antenna in S-band for Weather Radar Applications", National Conference on Emerging Trends in Electronics and Communication Engineering(NCETEC-2017)", Bapatla Engineering College, Bapatla-522 102, 20,21 January, 2017.
- 4 Ch.Venkateswarlu, Dr.N.Venkateswara Rao, "Interference Cancellation in MIMO-OFDM System using hybrid ABC Algorithm", National Conference on Emerging Trends in Electronics and Communication Engineering(NCETEC-2017)", Bapatla Engineering College, Bapatla-522 102, 20,21 January, 2017.
5. J.Chandrasekhara Rao, Dr.N.Venkateswara Rao, A wideband Symmetric Square Slotted Microstrip Antenna for wire less Communications", National Conference on Emerging Trends in Electronics and Communication Engineering(NCETEC-2017)", Bapatla Engineering College, Bapatla-522 102, 20,21 January, 2017.

6. J.Naga Surekha, Y.Sri Chakrapani, Dr.M.Kama Raju, Dr.N.Venkateswara Rao, “A Survey of Trends in Local Invariant Detectors”, National Conference on Emerging Trends in Electronics and Communication Engineering(NCETEC-2017)”, Bapatla Engineering College, Bapatla-522 102, 20,21 January, 2017.
7. M.Aparna, Y.Sri Chakrapani, Dr.N.Venkateswara Rao, “ FPGA Implementation of an Agricultural management system using wireless Networks”,National Conference on RF Wireless Communication & Signal Processing”, Bapatla Engineering College, Bapatla-522 102, 17,18 November, 2014.
8. Y.Sri Chakrapani, Dr.M.Kama Raju, Dr.N.Venkateswara Rao, “ FPGA Implementation of Low Power UART”, National Conference on RF Wireless Communication & Signal Processing”, Bapatla Engineering College, Bapatla-522 102, 17,18 November, 2014.
9. D.B.V.Ravisankar,Dr.S.Srinivasa Rao,Dr.N.Venkateswara Rao,“ FPGA Implementation of QPSK Modulator for SDR”, National Conference on RF Wireless Communication & Signal Processing”,Bapatla Engineering College,Bapatla-522102, 17,18 November, 2014.
10. E.Suneetha, Dr.N.Venkateswara Rao, “ Comparative Analysis of Satellite Selection Techniques for GNSS”, National Conference on RF Wireless Communication & Signal Processing”, Bapatla Engineering College, Bapatla-522 102, 17,18 November, 2014.
11. M.Suneel, B.R.Prasad and N.Venkateswara Rao, “ Fuzzy logic based image enhancement through different membership functions”, “National conference on Emerging Trends in Electrical Engineering & Communications (ETEC-2012)”, St.Ann’s College of Engineering and Technology, Chirala-523 187, 4th February, 2012.

12. N.Venkateswara Rao, T. Madhu , K. Lal Kishore & K.Sambasiva Rao, “Estimation of VTEC over a low latitude station (Bangalore) during October 2003 storm”, “National conference on Wireless Information and Networking in Global systems (WINGS 2009)”, K.L.N. college of Engineering, Pottapalayam-630 611, During April 16-17 , 2009.
13. N.Venkateswara Rao, T. Madhu , K. Lal Kishore & K.Sambasiva Rao, “Estimation of VTEC over a low latitude station (Hyderabad) during October 2003 storm”, “Second National conference on VLSI, Embedded Systems, Signal Processing and Communication Technologies”, NCVESCOM’09, AVIT, Chennai, during 8-9 April 2009.
14. N.Venkateswara Rao, T. Madhu, G.V.S. Padma Rao & K. Lal Kishore, “Storm time variation of TEC data over a low latitude station”, Silver Jubilee National Conference on “Global Navigation Satellite System and its Applications (GNSS-2007)” R&T Unit for Navigational electronics, Osmania University, Hyderabad, during 25-26 October, 2007.

Declaration:

I hereby declare that the above furnished information is correct and true to the best of knowledge.

Station:

Date:

(Dr. N.Venkateswara Rao)