

AY 2022-23

Books	Book Chapters	International Journals	National Journals	International Conferences	National Conferences	Total
-	3	31	-	10	7	51

Book Chapters

1. **Marepally, B.C.**, Venumbaka, M.R., Duraisamy, S., Sigamani, S., Hima Bindu, D., Dhasarathan, V. (2023). Graphitic Carbon Nitride-Based Dye-Sensitized Solar Cells and Perovskite Solar Cells for Energy Harvesting. In: Nella, A., Bhowmick, A., Kumar, C., Rajagopal, M. (eds) Energy Harvesting Trends for Low Power Compact Electronic Devices. EAI/Springer Innovations in Communication and Computing. Springer, Cham. https://doi.org/10.1007/978-3-031-35965-1_3.
2. V.Ramakrishna, **Krishna Kumar Alenoor (2022)**, Nanoscale Semiconductors, 1, Fundamentals Of TFET And Their Applications, 21 To 42, CRC Press, 2. <https://www.taylorfrancis.com/chapters/edit/10.1201/9781003311379-2/fundamentals-tfets-applications-ramakrishna-krishna-kumar>
3. **Dr.Vinodh Kumar Minchula**, Sr.Prof.G Sasibhushana Rao (2022), 5G And 6G Enhanced Broadband Communications, Investigation Of Sac Channel Effects On Mimo System Capacity And Optimal Coherence Distance Estimation Under Different Angular Dispersions For Next-Gen Networks, 1-27, Intechopen London, United Kingdom, 2, [Online]. Available: <https://www.intechopen.com/online-first/83598> Doi: 10.5772/Intechopen.106865, 10.5772/Intechopen.106865

International Journals

1. N. Alivelu Manga, **G. Pradeep Kumar** & V. Satyanarayana Tallapragada (2022): FPGA Design Of Arithmetic Optimised Apt-Vdf Using Reusable Vedic Multiplier with Simplified Combinational Logics For Medical Signal Denoising, International Journal of Electronics, Dec 2022, Doi: 10.1080/00207217.2022.2148003, (Taylor & Francis, Scopus, SCIE)

2. **Dr.M.L.N.Acharyulu**, A Novelty Of Emergent Technology Challenges Of Dielectric Films At14nm Era, SSRG International Journal Of VLSI And Signal Processing, 9, 2, 5-8, May-Aug 2022, 2, <https://doi.org/10.14445/23942584/Ijvsp-V9i2p102>.
3. **Dr. K Suman, D Nagadevi**, Recent Developments In Switching Techniques Of Reconfigurable Antennas, Gis Science Journal, Volume 9, Issue 5, 1340-1348, 2022.
4. S. Ghosh, **J. Ghosh**, M. Santoshkumar Singh and A. Sarkhel, "A Low-Profile Multifunctional Metasurface Reflector for Multiband Polarization Transformation," in IEEE Transactions on Circuits and Systems II: Express Briefs, vol. 70, no. 1, pp. 76-80, Jan. 2023, doi: 10.1109/TCSII.2022.3202085., Scopus, SCI/SCIE. 2023
5. **Jeet Ghosh**, Rahul Dutta, Abhishek Sarkhel, Q H Abbasi, Design Of Miniaturize Flexible Wideband Frequency Selective Surface For Electromagnetic Shielding Application, Waves In Random And Complex Media, Early Access, Ea, 1-22, 21 September 2022, 2, 10.1080/17455030.2022.2121442, Taylor & Francis, Scopus, SCI/SCIE.
6. Santoshkumar Moirangthem, Sourav Roy, **Jeet Ghosh**, Ujjal Chakraborty, Soumendu Ghosh, Abhishek Sarkhel, Design And Analysis Of Compact Dual-Band Antenna System For Scalp And Skin Implantation, Progress In Electromagnetics Research C, 125, 0, 1-13, Oct 2022, 2, 10.2528/Pierc22081203, Scopus.
7. **Mounika Jammula**, Venkata Mani Vakamulla, Sai Krishna Kondoju, Hybrid Lightweight Cryptography With Attribute-Based Encryption Standard For Secure And Scalable Iot System, Connection Science, 34, 1, 2431-2447, September 2022, 2, <https://doi.org/10.1142/S0219265921410310>, Taylor & Francis, Scopus, SCI/SCIE.
8. **Radha, S.**, Sachin, B., Pourmoafi, S. ,Nagabushanam, P., Distributed MAC Protocol with Game Theory Optimization for Wireless Sensor Networks, Ad Hoc & Sensor Wireless Networks, 54, 3 - 4, 291 – 326, Dec 2022, 2, 10.32908/ahsw.n.v54.8141, Scopus, SCI/SCIE
9. V.V. Satyanarayana Tallapragada, N. Alivelu Manga, **G.V. Pradeep Kumar**, "A novel COVID diagnosis and feature extraction based on discrete wavelet model and classification using X-ray

and CT images", Multimedia Tools and Applications, Springer, Jan 2023, DOI: <https://doi.org/10.1007/s11042-023-14367-4>, (Q1, Scopus, SCIE)

10. C Silpa, **A Vani**, K Rama Naidu, "Deep Learning Based Channel Estimation for MIMO-OFDM System with Modified ResNet Model", INDIAN JOURNAL OF SCIENCE AND TECHNOLOGY, 16(2): 97-108. Jan 2023. <https://doi.org/10.17485/IJST/v16i2.2154>

11. **Dhana Lakshmi Namburi**, Satya Sai Ram M, "Speaker Recognition Based on Mutated Monarch Butterfly Optimization Configured Artificial Neural Network", International journal of Electrical and Computer Engineering Systems, Vol 13, Issue 9, pp 767 -775, Nov 2022. <https://ijeces.ferit.hr/index.php/ijeces/article/view/1389/219> (Q3, Scopus, Web of Science).

12. **D.Sony, D. Krishna Reddy** and P. Naveen Kumar "IRNSS RINEX DATA PROCESSING" Journal of Data Acquisition and processing, Vol. 38 (1) 2023. ISSN: 1004-9037, <https://sjcjycl.cn/>, DOI: 10.5281/zenodo.7766229. pp- 5138-5147.

13. B. Indira Priyadarshini, **D. Krishna Reddy** "Modified remora optimization based matching pursuit with density peak clustering for localization of epileptic seizure onset zones" Evolving Systems under exclusive licence to Springer-Verlag GmbH Germany, Springer Nature 2023. <https://doi.org/10.1007/s12530-023-09488-y> published online on 14 Feb 2023.(Scopus, SCIE)

14. P Jyothi1, **D Krishna Reddy**, P Naveen Kumar, "A Hybrid Classification Approach for Iris Recognition System for Security of Industrial Applications", Journal of Scientific and Industrial Research, Vol. 82, NISPR of CSIR, January 2023, pp. 151-157, DOI: 10.56042/jsir.v82i1.70253. (Scopus)

15. D. Lingamaiah, **Dr. D. Krishna Reddy**, Prof. Perumalla Naveen Kumar, "Reliability and Lifetime Maximization of Wireless Sensor Networks: Modelling, Evaluation and Validation", Mathematical Statistician and Engineering Applications, ISSN: 2094-0343/2326-9865 pp. 10744-10757, Publication Issue: Vol. 71 No. 4 (2022) Publication: 21 December 2022 Vol. 71 No. 4 (2022) <http://philstat.org.ph>

16. B. Indira Priyadarshini, **D. Krishna Reddy** "Adaptive octopus deep transfer learning based epileptic seizure classification on field programmable gate arrays, part of Springer Nature 2022

Evolving System, <https://doi.org/10.1007/s12530-022-09474-w> Published on 3 December 2022. (Scopus, SCIE)

17. M. Rajendra Prasad, **D. Krishna Reddy**, “Light-Weight Clustered Trust Sensing Mechanism for Internet of Things Network”, IETE Journal of Research, DOI: <https://doi.org/10.1080/03772063.2022.2130449>, 1-22, Published online: 27 Oct 2022. (Scopus, SCIE)

18. **D.Sony, Dr.D.Krishna Reddy** and Dr.P.Naveen Kumar, “Implementation of Receiver Autonomous Integrity Algorithm for Fault Detection of IRNSS”, Journal of Aerospace Systems (2022) 5: pp.635–642 <https://doi.org/10.1007/s42401-022-00161-x> / Published online: 13 September 2022.(Scopus)

19. **Vinodh Kumar Minchula**, Evaluating the Efficiency of Non-Orthogonal MU-MIMO Methods in Smart Cities Technologies & 5G Communication, MDPI Sustainability -Q2, 15, 1, 1-13, Dec 2022, 2, <https://doi.org/10.3390/su15010236>. (Scopus, SCIE)

20. **Vinodh Kumar Minchula**, Applying ML enabled Myriad Fragment Empirical modes in 5G Communications to Detect Profile Injection Attacks, Springer Wireless Networks Q2 , online published , will issue later , 14, Feb 2023, 2, <https://doi.org/10.1007/s11276-023-03301-z> (Scopus, SCIE)

21. **Vinodh Kumar Minchula**, MaReSPS for Energy Efficient Spectral Precoding Technique in Large Scale MIMO-OFDM, Elsevier Physical Communication Q2, 58, Article-in-press, 12, June 2023, 2, <https://doi.org/10.1016/j.phycom.2023.102057> (Scopus, SCIE)

22. **D Srikar**, Anveshkumar Nella, Ranjith Mamidi, Ashok Babu, Sudipta Das, Sunil Lavadiya, Abeer D Algarni, Walid El-Shafai, A Novel Integrated UWB Sensing and 8-Element MIMO Communication Cognitive Radio Antenna System, Electronics 2023, 12(2), 330; <https://doi.org/10.3390/electronics12020330>. (Scopus, SCIE)

23. **Ammana, S.R.**, Sujimol, M.R., Songala, K.K. et al. Advantage of IRNSS S-band signal for GBAS applications in adverse ionospheric storm conditions. Aerospace Systems, vol 5, issue 4, 615–624 August (2022). <https://doi.org/10.1007/s42401-022-00158-6>. (Scopus)

24. **Mounika Jammula**, Venkata Mani Vakamulla, **Sai Krishna Kondoju**, “Artificial intelligence framework-based ultra-lightweight communication protocol for prediction of attacks in Internet of Things environment”, *Emerging Telecommunications Technologies*, 34, 1, 1-17, November 2022. <https://doi.org/10.1002/ett.4680>. (Wiley-Blackwell, Scopus, SCIE)
25. **Dr. Marepally Bhanu Chandra**, Mr. Venumbaka Maneesh Reddy “Electrochemical modified Pt nanoflower @ rGO for non-enzymatic electrochemical sensing of glucose” in **Sensors and Actuators A: Physical**, Vol. 353, pp. 114232, (2023). (IF – 4.3) <https://doi.org/10.1016/j.sna.2023.114232> (Elsevier, Scopus, SCIE)
26. **Dr. Marepally Bhanu Chandra** “Defective Graphene/Plasmonic Nanoparticle Hybrids for Surface-Enhanced Raman Scattering Sensors.” **ACS Omega**, Vol. 8(4), pp. 4344-4356, (2023). (IF – 4.1) <https://doi.org/10.1021/acsomega.2c07706> (American Chemical Society, Scopus, SCIE).
27. **Mohd Ziauddin Jahangir**, Paidimarry Chandra Sekhar, “Design of novel hybrid - digitally controlled oscillator for ADPLL” *Memories - Materials, Devices, Circuits and Systems* (ELSEVIER), <https://doi.org/10.1016/j.memori.2023.100052>, 25 April 2023. (SCIE)
28. **Mohd Ziauddin Jahangir**, Paidimarry Chandra Sekhar, “A 1.2GHz Frequency Range, 153.4 dBc/Hz FoM, low Phase Noise, Current Starved Multi-Path Ring VCO”, *Journal of Integrated Circuits and Systems* (Springer Nature), Vol. 18 No. 1, May(2023), DOI: <https://doi.org/10.29292/jics.v18i1.676>. (Scopus)
29. Kaitha Praveena, Perumalla Naveen Kumar, **D. Krishna Reddy**, “Ionospheric irregularities measurement using Indian SBAS-GAGAN” *Aerospace Systems*, Springer online, 19 April 2023, <https://doi.org/10.1007/s42401-023-00222-9> (Scopus)
30. N. Phani Bindu, **P. Narahari Sastry**. (2022). Automated Identification of Brain Tumor using Image Transformation Methods. *Mathematical Statistician and Engineering Applications*, 71(4), 8061–8077. <https://doi.org/10.17762/msea.v71i4.1429>
31. Bindu, N.P., **Sastry**, P.N. Automated brain tumor detection and segmentation using modified UNet and ResNet model. *Soft Comput* **27**, 9179–9189 (May 2023). <https://doi.org/10.1007/s00500-023-08420-5> (Scopus)(SCIE)

International Conference

1. **Dr.Vinodh Kumar Minchula**, Sr.Prof.G Sasibhushana Rao, Analysis Of Spatial Antenna Correlated Channel Effects For Mimo System Capacity, Aicte Sponsored International Conference On Advancement In Electronic Systems And Communication Technologies, Others, Anil Neerukonda Institute Of Technology And Sciences, Visakhapatnam, Andhra Pradesh, 2, 4-5 Nov 2022.
2. **B. Neeraja, N.V. Koteswara Rao** , B. Rajendra Naik and K. Harshitha, "Design of High Speed Ethernet Based Receiver Processor Unit for Radar applications," 2022 4th International Conference on Advances in Computing, Communication Control and Networking (ICAC3N), Greater Noida, India, 2022, pp. 1656-1660, doi: 10.1109/ICAC3N56670.2022.10074480.
3. **P.Anuradha**, K. Rajkumar, **Ch. Navitha**, M. Jithender Reddy, IMPLEMENTATION OF AUTOMATIC VENDING MACHINE USING FPGA, International Conference on Cognitive and Intelligent Computing (ICCIC), Springer, Vasavi College of Engineering, Hyderabad, Telangana, 2, 27-28 Dec 2022
4. **A. Krishna Kumar**, D.Deepika, V. Ramakrishna, Design Of Smart Fertilizer Chain System From Factory To Farmer, 19th International Conference on Electrical Engineering, Computing Science and Automatic Control (CCE) Mexico City, Mexico. November 9-11, 2022, IEEE, Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional Address: Av. Instituto Politécnico Nacional No. 2508 (corner with Av. Ticomán), Col. San Pedro Zacatenco, C.P. 07360 Alcaldía Gustavo A. Madero Mexico City. MEXICO , MEXICO City, , 2, 44874, 44876.
5. Aare Gopal, **D. Krishna Reddy**, Srinivasarao Chintagunta “Symbol-Interferometry for PAPR Reduction of OTFS Modulation” 2022 Second International Conference on Next Generation Intelligent Systems (ICNGIS) 978-1-6654-6792-6/22/\$31.00 ©2022 IEEE | DOI: 10.1109/ICNGIS54955.2022.10079891.
6. **S. Reddy Ammana**, K. Kumar Songala and D. Bollavula, "Performance Evaluation of Weil Codes and Gold Codes for Application in Future Navigation Signals," 2022 IEEE 2nd Mysore Sub

Section International Conference (Mysuru Con), Mysuru, India, 16-17 Oct 2022, pp. 1-6, doi: 10.1109/MysuruCon55714.2022.9972451.

7. **Dr.S.Siva Priyanka**, IoT based Crop Recommended System using Machine Learning for Smart Agriculture, 2nd International Conference on Emerging Trends in Engineering (ICETE) University College of Engineering(A), Osmania University, Hyderabad, India, April 28-20, 2023.

8. **Vinodh Kumar Minchula**, Leeladhar B, "Design of Y-shaped Multiband Antenna Using the Parametric Approach for Wireless Networks", Springer Scopus 5th International conference VCAS 2022, Springer, MNIT Allahabad, Allahabad, Prayagraj, Uttar Pradesh, 2, 44848.

9. Mohammed Abdul Nasar, Midhun chakravarthy, **B.khaleelu Rehman**," Performance Analysis for the Least Mean Mixed Norm Algorithm with a Leaky factor" 2nd International Conference on Advances in Signal Processing & Communication Engineering(ICASPACE-2023) organized by Department of ECE,MGIT,Hyd. during 28th and 29th April 2023.

10.**Mohd Ziauddin Jahangir**,Chandra Sekhar Paidimarry, "Design of a Novel Charge Pump based Current Starved Ring Oscillator with Reduced Phase Noise",IEEE 2023 International Conference for Advancement in Technology (ICONAT) Goa, India. Jan 24-26, 2023,978-1-6654-7517-4/23/\$31.00 ©2023 IEEE.

National Conference

1. **Dr. A D Sarma**, Dr. D. L Sreenivasa Reddy and **Dr. D. Krishna Reddy, K Lakshman** and V Ram Prasad, Introduction Report on "A New Model for Short Term Forecasting of Scintillations using Machine Learning Approach and Generation of Regional Scintillation Maps", CBIT/ECE/DST/SERB-CRG/01, August 2022.

2. **D.Sony, Dr.D.Krishna Reddy** and Dr.P.Naveen Kumar ,"An Approach to Detect and Exclude Faults for IRNSS", Two Day All India Seminar on "Emerging Signal Processing Application" Institution of Engineers India, Telangana State Center, Hyderabad, 24 th Feb 2023.

3. **S. Siva Priyanka and D. Krishna Reddy**, " Automatic Sanitizer Dispenser", Emerging Signal Processing Applications, Two Day All India Seminar on "Emerging Signal Processing Application" Institution of Engineers India, Telangana State Center, Hyderabad, 24 th Feb 2023.

4. J. Shailaja, B. Indira Priyadarshini, **Dr. D. Krishna Reddy**, “Low Frequency and Low Noise CNFET staggered tuned filter design suitable for Cardiac Troponin Bio-Sensors” Two Day All India Seminar on “Emerging Signal Processing Application”, Institution of Engineers India, Telangana State Center, Hyderabad, 24 th Feb 2023.
5. Endela Praneeth Krishna, **Sri.T.Aravinda babu**, Performance Analysis of Reed Solomon Coded MIMO NOMA System, 4th Research Day, Dec 2022, CBIT, Hyderabad.
6. N Krishna Sandeep Reddy, **Sri.T.Aravinda babu**, Underwater Wireless Communication Using IoT, 4th Research Day, Dec 2022, CBIT, Hyderabad.
7. Varsha Reddy Manda, Mahesh Chilaka*, **Supraja Reddy Ammana**, “Machine Learning based Multilateration for Enhanced Aircraft Localization” 4th Research Day, Dec 2022, CBIT, Hyderabad.