

AY 2021-22

Book Chapters

1. **Dr.Vinodh Kumar Minchula**, Sr.Prof. Gottapu Sasibhushana Rao, full chapter title-" Performance analysis of Multiple Antenna Systems with New Capacity Improvement Algorithm for MIMO based 4G/5G Systems", Book title- "Antenna Systems", Editor Prof. Hussain Al-Rizzo, IntechOpen publisher, July 10th 2021, ISBN 978-1-83968-829-4.
2. **Sathish P Alivelu Manga N** ,IoT-Based Smart Farming System Using MQTT Protocol and ML Algorithms published in Handbook of Smart Materials, Technologies and Devices, vol no: 1,issue no: 12,pp: 1-23,Springer,Dec 2021,ISBN: 978-3-030-58675-1.
3. **Alivelu Manga Neelakantham, P Sathish**, IoT-Based Medication Reminder Devices: Design and Implementation, published in Handbook of Smart Materials, Technologies, and Devices , vol no: 1 issue no: pp: 1-33Springer January, 2022.

International Journals

1. **G V Pradeep Kumar, D Krishna Reddy**, Revelation and Defense against Overlapping Secondary User Attack using H Infinity Filter in the Cognitive Radio Network, Design Engineering (Toronto), vol no: Vol2021, Issue no: 7, pp: 8099-8114, July 2021, ISSN: 0011-9342
2. **Satyavati Jaga**, Dr.K.Rama Devi, A Crystal View on Brain Tumor Detection Methods, Design Engineering(Toronto), vol no: Vol2021, Issue no: 6, pp: 3341-3346, August, 2021, ISSN: 0011-9342
3. **Namburi Dhana Laksmi**, M.Satya Sai Ram, Speaker Recognition through Effectively Configured Artificial Neural Network, Design Engineering(Toronto), vol no: Vol2021, Issue no: 7, pp: 9506-9523, August 2021, ISSN: 0011-9342
4. Kamlikar Sowmya – 160119744402, **Alenoor Krishna Kumar**, Design and Simulation of Area Efficient Carry Select Adder using Verilog HDL, Design Engineering (Toronto), vol no: 2021, Issue no: 7, pp: 7206 - 7216, August - 2021, ISSN: 0011-9342
5. **Koiloth SRS Jyothsna K Padma Raju** , IRNSS Based Estimation And Mitigation Of Multipath Error For Strategic Terrestrial Applications, International Journal of Electrical Engineering and Technology (IJEET), vol no: 12, Issue no: 07, pp: 120-128, July 2021, ISSN: ISSN Print: 0976-6545 and ISSN Online: 0976-6553 10.34218/IJEET.12.7.2021.013 (Scopus)
6. **Dr.M.L.N.Acharyulu** karthik sharma harshavardhan murali krishna , Smart Helmet for Soldier Protection in War Field, MAT Journals (August, 2021) vol no: 7,, Issue no: 2 , pp: 28-43, ISSN: 2581-849x.
7. M. Sowjanya, **S. P. Sahoo**, U. K. Sahoo, A. K. Sahoo, "Fast Diffusion Minimum Generalized Rank Norm Based on QR Decomposition", in IEEE Transactions on Circuits and Systems II: Express Briefs, 2021. doi: 10.1109/TCSII.2021.3125577 (SCI/SCIE)
8. Rahul Dutta (not from CBIT) **Jeet Ghosh** (CBIT Faculty) Zhengbao Yang (Asst. Prof of City university Hongkong) Xingqui Zhang (Asst. Prof. University College of Dublin) , Multi-Band Multi-Functional Metasurface-Based Reflective Polarization Converter for Linear and Circular Polarizations, IEEE Access, vol no: 9, Issue no: NA, pp: 152738-152748, Nov. 2021, ISSN: 21693536 10.1109/ACCESS.2021.3128190. (SCI/SCIE).

9. Vani S, **ChandraSekhar P**, Ramanarayan Sankriti, Aparna G, "Detection of normal and epileptic EEG signals using by lifting based HAAR wavelet transform and artificial neural network", Int J Syst Assur Eng Manag, 9th Nov 2021. <https://doi.org/10.1007/s13198-021-01454-8> (Web of Science).
10. Jangampally Rajeshwar Goud, **Nalam Venkata Koteswara Rao**, and Avala Mallikarjuna Prasad, "Design of Uplink and Downlink Triple Band π - Slot Antennas for Simultaneous Communication," has been accepted for publication in Wireless Personal Communications. Journal, 05th Feb 2022, (SCIE indexed). WPC- Free Journal. DOI: <https://doi.org/10.1007/s11277-022-09508-1>. (SCIE)
11. Mahidhara Reddy Kankara, Maanvik Thodupunuri, Lakshmi Srikanth Yechuri and **N. V. Koteswara Rao**, "Encrypted e-Voting System using IoT", International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.429 Volume 9 Issue IX Sep 2021. DOI: <https://doi.org/10.22214/ijraset.2021.37973>.
12. J. Rajeshwar Goud, **N. V. Koteswara Rao**, and A. M. Prasad, "A Novel Triple Band MIMO Antenna Array for Simultaneous Communications", Progress In Electromagnetics Research M, Vol. 102, 159-169, 2022, doi:10.2528/PIERM21042205. (Scopus)
13. **Dr.M.L.Nacharyulu** Dr.N.S.M.Sarma, Investigation of congestion predictor with supervised learning for routability driven global routing , journal of Electronics and Communication systems, vol no: 6, Issue no: 3, pp: 24-30, Sept- December 2021.
14. Maneesh Reddy Venumbaka, Nagarani Akkala, Selvakumar Duraisamy, Saravanan Sigamani, Praveen Kumar Poola, Subba Rao D, **Bhanu Chandra Marepally**, Performance of TiO₂, Cu-TiO₂, and N-TiO₂ nanoparticles sensitization with natural dyes for dye sensitized solar cells, Materials Today: Proceedings, Volume 49, Part 7, Jan 2022, Pages 2747-2751, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2021.09.281>.(Scopus).
15. J. P. Sahoo **Suraj Prakash Sahoo** S. Ari S. K. Patra , RBI-2RCNN: Residual Block Intensity Feature using a Two-stage Residual Convolutional Neural Network for Static Hand Gesture Recognition, Springer Signal, Image and Video Processing, vol no: Accepted, Issue no: Accepted, pp: 1-9, Feb 2022, ISSN: 18631703 <https://doi.org/10.1007/s11760-022-02163-w> (SCI/SCIE).
16. **Namburi Dhana Lakshmi**; M. Satya Sai Ram, "Configuring artificial neural network using optimisation techniques for speaker voice recognition", International Journal of Bioinformatics Research and Applications, Mar 2022 Vol.18 No.1/2, pp.101 – 112, DOI: 10.1504/IJBRA.2022.121765. (Scopus)
17. **G.V.Pradeep Kumar, D.Krishna Reddy**, "Hierarchical Cat and Mouse Based Ensemble Extreme Learning Machine for Spectrum Sensing Data Falsification attack detection in Cognitive Radio Network", Microprocessors and Microsystems, Web of Science Core Collection: Science Citation Index Expanded SCI (1.525). (SCIE)
18. **Tunguturi Sridher, Achanta D. Sarma**, Perumalla Naveen Kumar, and Kuruva Lakshmana, "Distributed RSS-Based 2D Source Localization System in Extended Indoor Environment", Progress In Electromagnetics Research C, Vol. 120, 159–177, 1 June 2022.(Scopus)
19. **T Sridher, Dattatreya S Achanta**, Naveen Kumar P, "Performance Evaluation of Onboard Wi-Fi Module Antennas in terms of Orientation and Position for IoT Applications", Accepted to publish in International Journal of Engineering, June 2022. (Scopus)(WoS)
20. **N Dhana Lakshmi**, Pranavi Nagubandi, Muralidhar Yeleti, K Vishnu Vardhan, (UG Students) "Automated Attendance System Based on Facial Recognition using Viola-Jones Algorithm", Asian

21. Kasiprasad Mannepalli, **Panyam Narahari Sastry**, Maloji Suman, Emotion recognition in speech signals using an optimization-based multi-SVM classifier, Journal of King Saud University - Computer and Information Sciences, Volume 34, Issue 2, 2022, Pages 384-397, ISSN 1319-1578. <https://doi.org/10.1016/j.jksuci.2018.11.012>. (Scopus)
22. **Nagadevi Darapureddy, K. Suman**, Face Emotion Recognition Using Deep Learning Architecture, Journal Of Xi'an University Of Architecture & Technology, Volume Xiii, Issue 8, 633-637, 2021.
23. **N. Dhanalakshmi**, Chanikya Mammindlapalli-160117735030 Dinesh Reddy Sunkari-160117735032 Rohith Reddy Salguti-160117735038, Design of IoT based Transmission Line Fault Monitoring System, published in Springer Nature, Lecture Notes in Electrical Engineering. Volume 929, Pages 373 – 385, 2022 (Scopus)
24. **Vinodh Kumar Minchula**, Characterization of Proposed Iterative Hyperbolic Localization Solution using Statistical Studies, SSRG International Journal of Engineering Trends and Technology, 70, 6, 209-220, June 2022, 2, <https://doi.org/10.14445/22315381/IJETT-V70I6P223>. (Scopus)
25. **Dr.M.L.N.Acharyulu**, Dr.Ns Murthi Sarma, Dr.K.Lal Kishore, A novelty of Emergent Technology Challenges of Dielectric Films at 14nm Era, SSRG- IJVSP, 9, 2, 5-8, MAY 2022, 2, <https://doi.org/10.14445/23942584/IJVSP-V9I2P102>.
26. **Jahangir, M.Z.**, Paidimarry, C.S., Sikander, M., Shraavanthi, M.V. (2022). Design of an All Digital Phase-Locked Loop Using Cordic Algorithm. In: Kumar Jain, P., Nath Singh, Y., Gollapalli, R.P., Singh, S.P. (eds) Advances in Signal Processing and Communication Engineering. Lecture Notes in Electrical Engineering, vol 929. Springer, Singapore. https://doi.org/10.1007/978-981-19-5550-1_14. (scopus)
27. R Dutta, **Jeet Ghosh**, A Sarkhel, Planar Frequency Selective Surface Based Switchable Resorber/Absorber for Airborne Application, IEEE Antenna and Wireless Propagation Letter, vol no: Early Access, Issue no: Early Access, pp: Early Access, 2022, June, ISSN: 1536-1225 10.1109/LAWP.2022.3183150 (SCI/SCIE).

International Conferences

1. Pappu Gayathri Devi, Sunkara Chandana, **P. Sathish** “Design and Development of Android Application for Virtual Birthday Present” 6th International IEEE Conference on Communication and Electronics Systems (ICCES-2021) during 8-10 July, 2021 Organized by PPG Institute of Technology, Coimbatore, India
2. **M.Venkata Sireesha P.V.Naganjaneyulu K.Babulu** , Hyperspectral Image Segmentation and Classification using Hybrid IB-CDA with Least Square Unmixing , IEEE 6th International Conference on Communication and Electronics Systems (ICCES-2021), PPG Institute of Technology, , Coimbatore,, Tamilnadu, Date: 07/08/21 to 07/10/21
3. **Supraja Reddy Ammana**, Satyanarayana Katukojwala, Bhaskara Satyanarayana, **Komal Kumar Songala**, Sowjanya Boddani, Namitha Kommineni, Nikhita Tada, **Dattatreya Sarma Achanta**, "Development of Simple Software Receiver For IRNSS L5 Signal", IEEE WIECON-ECE 2021, 4-5 Dec 2021.
4. B. S. Margana, **D. S. Achanta**, K. K. Songala and **S. R. Ammana**, "A Simple SDR based Method to Spoof Low-End GPS aided Drones for Securing Locations," 2021 IEEE International Conference on

National Conferences

1. Amgoth Hariprasad, **Supraja Reddy Ammana** "Generation and Evaluation of IRNSS Navigation data for Spoofing Applications", Research Day, CBIT, 28 August 2021.
2. Asra Fathima, **D.Nagadevi**, "Implementation of Deep Learning Architectures for Classification of Skin Lesions", Research Day, CBIT, 28 August 2021.
3. Nomula Rajitha, **A.Satyavati**, "Implementation of Deep Neural Networks for Multi- Classification of Brain Tumor Images", Research Day, CBIT, 28 August 2021.
4. Kukatla Ramprasad, **G.V. Pradeep Kumar**, "Implementation of Impatient Backoff Algorithm for wireless Adhoc networks", Research Day, CBIT, 28 August 2021.
5. Mohammed Waseem, N Venkata Narsimha Reddy, Nischal Y, **T.Sridher**, "The basaltic analysis for safeguarding structures nearby CBIT premises", Research Day, CBIT, 28 August 2021.
6. **N. Alivelu Manga**, S. Sai Sandeep Kumar, "Design And Simulation of Approximate Multiplier for Low Power Applications", Research Day, CBIT, 28 August 2021.
7. E. Sindhuja, **Dr. M. Bhanu Chandra**, "Design And Simulation Of Graphene Based Reconfigurable Nano Antenna For Terahertz Applications", Synapse - 2022 under Sudhee 2022 at CBIT 23rd&24thmarch, 2022
8. K. Sushmitha, **Dr. A.D.Sarma**, "Generation Of Spoofed Signal And Its Detection Using Machine Learning For Gnss Applications:", Synapse - 2022 under Sudhee 2022 at CBIT 23rd&24thmarch, 2022
9. R. Sai Saranya, **Sri. P. Chandra Sekhar**, "Generation Of Spoofed Signal And Its Detection Using Machine Learning For Gnss Applications", Synapse - 2022 under Sudhee 2022 at CBIT 23rd&24thmarch, 2022
10. M. Varsha Reddy, **Dr. A Supraja Reddy**, "Multilateration With Machine Learning For Aircraft Positioning And Trajectory Prediction", Synapse - 2022 under Sudhee 2022 at CBIT 23rd&24thmarch, 2022
11. P. Sai Tharun, **Dr. Suraj Prakash Sahoo**, "Hand Based Gesture Recognition For Deaf And Dumb People Using Convolution Neural Network", Synapse - 2022 under Sudhee 2022 at CBIT 23rd&24thmarch, 2022
12. K. Supriya, **Dr. Sai Krishna**, "Secrecy Capacity Analysis Of Non-Orthogonal Multiple Acces Technique Over Alpha- Mu Fading Channels", Synapse - 2022 under Sudhee 2022 at CBIT 23rd&24thmarch, 2022
13. Endela Praneeth Krishna, **Sri T. Aravinda Babu**, "Performance Analysis Of Reed Solomon Coded Mimo Noma System", Synapse - 2022 under Sudhee 2022 at CBIT 23rd&24thmarch, 2022
14. Mummadi Sravani, **Dr. P. Narahari Sastry**, "Analysis And Classification Of Stomach Tumor Images Using Transform Based Techniques", Synapse - 2022 under Sudhee 2022 at CBIT 23rd&24thmarch, 2022
15. Malkapuram Saikirangoud, **Dr. K. Suman**, "Design And Analysis Of Frequency Reconfigurable Antenna For Cognitive Radio Applications", Synapse - 2022 under Sudhee 2022 at CBIT 23rd&24thmarch, 2022

16. Dasu. Prasannarasmi,**Dr.P. Sathish**,"Smart Iot And Machine Learning-Based Framework For Water Quality Assessment", Synapse - 2022 under Sudhee 2022 at CBIT 23rd&24thmarch, 2022
17. Thota Kalyani, **Dr. A. Vani**,"Detection Of Cyber Attacks In Microgrids For Wireless Sensor Networks", Synapse - 2022 under Sudhee 2022 at CBIT 23rd&24thmarch, 2022
18. Syed Nazeer Uddin, : **Dr. Vinodh Kumar M**,"Waveform Generation And Simulation Using Matlab For 5G NR", Synapse - 2022 under Sudhee 2022 at CBIT 23rd&24thmarch, 2022
19. Chimata Lakshmanaswami,**Sri. Mohd.Ziauddin Jahangir**,"Design Of Digitally Controlled Vco", Synapse - 2022 under Sudhee 2022 at CBIT 23rd&24thmarch, 2022
20. S. Vishnu Vardhan,**Dr. M. Ramana Reddy**,"Design And Verification Of Serial Peripheral Interface (Spi) Protocol", Synapse - 2022 under Sudhee 2022 at CBIT 23rd&24thmarch, 2022
21. N. Manikanth,**Dr. M.L. Narasimha Charyulu**,"Design And Verification Of Ddr SDRAM Memory Controller Using System Verilog For Higher Coverage", Synapse - 2022 under Sudhee 2022 at CBIT 23rd&24thmarch, 2022
22. S. Swetha, **Smt. B. Neeraja**,"Design And Verification Of 1x3 Router", Synapse - 2022 under Sudhee 2022 at CBIT 23rd&24thmarch, 2022
23. Mohammed Riyazuddin,**Sri A. Krishna Kumar**,"Uvm Based Verification Of Dmac With Advanced Linked List Features", Synapse - 2022 under Sudhee 2022 at CBIT 23rd&24thmarch, 2022
24. S. Sai Sandeep Kumar,**Dr. N. Alivelu Manga**,"Uvm Based Verification Of I3c", Synapse - 2022 under Sudhee 2022 at CBIT 23rd&24thmarch, 2022
25. P. Nazima,**Smt. D. Sony**,"Implementation Of Bird Monitoring System", Synapse - 2022 under Sudhee 2022 at CBIT 23rd&24thmarch, 2022
26. G. Sai Koushik,**Sri. E. Chandrasekhar**,"High-Speed Area-Efficient Vlsi Architecture Of Three-Operand Binary Adder", Synapse - 2022 under Sudhee 2022 at CBIT 23rd&24thmarch, 2022
27. F.Florance,**Dr. K.Sudharshan Reddy**,"Implementation Of Automated Health Monitoring System On Arm Processor", Synapse - 2022 under Sudhee 2022 at CBIT 23rd&24thmarch, 2022
28. Y. Nandini,**Sri. T. Sreedhar**,M. Sandeep Kumar,"Implementation Of Hardware Module Of Iot Based Infant Monitoring System", Synapse - 2022 under Sudhee 2022 at CBIT 23rd&24thmarch, 2022
29. K. Krishna Vamshi,**Sri. G. Mallikharjuna Rao**,"Hardware Implementation And Vlsi Realisation Of Ecc Cryptosystem For Security", Synapse - 2022 under Sudhee 2022 at CBIT 23rd&24thmarch, 2022
30. Susrutha Reddy Kilaru,**Sri. N. Jagan Mohan Reddy**,"Logic Synthesis Using Front End Design Flow And Improve Correlation With Placement And Route", Synapse - 2022 under Sudhee 2022 at CBIT 23rd&24thmarch, 2022
31. G.Sameera,**Smt. N.Dhanalakshmi**,"Biometric Locker Security System", Synapse - 2022 under Sudhee 2022 at CBIT 23rd&24thmarch, 2022