



Vishnu Institute of Technology (Autonomous)
VISHNUPUR: BHIMAVARAM

FACULTY PUBLICATIONS (ECE) : 2023

JOURNALS:

1. Singh L., Vasimalla Y., **Pareek P.**, **Maurya N.K.**, Kumar R., Utilization of F8BT in refractive index sensor for urea treated urine detection, *Optical and Quantum Electronics*, Vol. 55, (14), PP. (1289) 01-15, 2023 (Scopus) (WoS)
2. **Maurya N.K.**, Kumari S., **Pareek P.**, Varshney G., Highly-efficient tunable dipole-driven Yagi-Uda antenna with end-fire radiation for terahertz application, *Nano Communication Networks*, Vol. 38, PP. 01-11, 2023 (Scopus) (WoS)
3. Godavarthi B., Dhar M., Devi S.A., Raju S.S., Balam A., **Srilakshmi G.**, Blockchain integration with the internet of things for the employee performance management, *Journal of High Technology Management Research*, Vol. 34, (2), PP. 01-05, 2023 (Scopus)
4. **Murthy S.V.S.N.**, Krishna Prasad P.M., Adversarial transformer network for classification of lung cancer disease from CT scan images, *Biomedical Signal Processing and Control*, Vol. 86, PP. 01-12, 2023 (Scopus) (WoS)
5. **Janapala D.K.**, Moses N., **Orugu R.**, Compacted conformal antenna at lower-UWB for wireless capsule endoscope system, *Journal of Ambient Intelligence and Humanized Computing*, Vol. 14, (9), PP. 12617-12633, 2023 (Scopus)
6. Brahmanandam P.S., Uma G., Tarakeswara Rao K., Sreedevi S., Latha Devi N.S.M.P., Chu Y.-H., Das J., Mahesh Babu K., Narendra Babu A., Das S.K., Naveen Kumar V., **Srinivas K.**, Doppler Sodar Measured Winds and Sea Breeze Intrusions over Gadanki (13.5° N, 79.2° E), India, *Sustainability (Switzerland)*, Vol. 15, (16), PP. 01-25, 2023 (Scopus) (WoS)
7. **Srinivas C.V.V.S.**, Borugadda S., RF Chain Selection Using Hybrid Optimization with Precoding in mm-Wave Massive MIMO Systems, *Wireless Personal Communications*, Vol. 131, (3), PP. 1997-2017, 2023 (Scopus) (WoS)
8. Agarwal V., **Pareek P.**, Singh L., Balaji B., Chaurasia V., Design and analysis of cross phase modulation based all optical half subtractor using carrier reservoir semiconductor optical amplifier, *Optical and Quantum Electronics*, Vol. 55, (8), PP. (680) 01-16, 2023 (Scopus) (WoS)

9. Arputharaj V.J., Sankar K., Kumar A.S., Sridevi M., **Prasad D.D.**, An Iot-Based Computational Intelligence Model To Perform Gene Analytics In Paternity Testing And Comparison For Health 4.0, Journal of Theoretical and Applied Information Technology, Vol. 101, (14), PP. 5781-5796, 2023, (Scopus)
10. **Orugu R.**, Nesasudha M., **Janapala D.K.**, Metamaterial Inspired Azimuth Pattern-Reconfigurable Antenna for 5G Applications, International Journal on Recent and Innovation Trends in Computing and Communication, Vol. 11, (6), PP. 28-33, 2023 (Scopus)
11. **Chandra K.R.**, Borugadda S., Joint resource allocation and power allocation scheme for MIMO assisted NOMA system, Transactions on Emerging Telecommunications Technologies, Vol. 34, (7), PP. 01-25, 2023 (Scopus) (WoS)
12. Choudhary S., **Sugumaran S.**, Belazi A., El-Latif A.A.A., Linearly decreasing inertia weight PSO and improved weight factor-based clustering algorithm for wireless sensor networks, Journal of Ambient Intelligence and Humanized Computing, Vol. 14, (6), PP. 6661-6679, 2023 (Scopus)
13. **Maurya N.K.**, Ghosh J., P. S., Design of graphene-based tunable ultra-thin UWB metasurface for terahertz regime, Optik, Vol. 279, 2023 (Scopus) (WoS)
14. Arputharaj V.J., Sankar K., Rao K.S., Prasad G.N.R., **Kumar R.B.**, IoT-Based Computational Intelligence Tool For Paternity Testing And Parental Comparison Using Correlation-Based Clustering And Svm Classification, Journal of Theoretical and Applied Information Technology, Vol. 101, (7), PP. 2726-2741, 2023, (Scopus)
15. **Maurya N.K.**, Kumari S., **Pareek P.**, Singh L., Graphene-based frequency agile isolation enhancement mechanism for MIMO antenna in terahertz regime, Nano Communication Networks, Vol. 35, PP. 01-10, 2023, 10.1016/j.nancom.2023.100436, (Scopus) (WoS)
16. Singh L., Vasimalla Y., Kumar R., **Pareek P.**, Highly sensitive surface plasmon resonance sensor for refractive index detection of Helicobacter Pylori, Optik, Vol. 274, PP. 01-11, 2023 (Scopus) (WoS)
17. Morampudi M.K., Sandhya M., **Dileep M.**, Privacy-preserving bimodal authentication system using Fan-Vercauteren scheme, Optik, Vol. 274, PP. 151-168, 2023 (Scopus) (WoS)
18. **Janapala D.K.**, Moses N., Bhagavathsingh J., Compact size antenna for skin implantable medical devices, International Journal of Microwave and Wireless Technologies, PP, 01-10, 2023 (Scopus) (WoS)

19. Let G.S., Bala G.J., Pratap C.B., **Janapala D.K.**, Kezia T., Concentric semi-circular ring loaded multi-band antenna for wireless applications, Analog Integrated Circuits and Signal Processing, Vol. 114, (1), PP. 113-124, 2023 (Scopus) (WoS)
20. Raghuwanshi S.K., Srivastava A., Palodiya V., **Pareek P.**, Generation of a high chirp rate microwave signal by using external optical modulation technique for RADAR application: theory and experiment, Optical and Quantum Electronics, Vol. 55, (1), PP. (5) 01-14, 2023 (Scopus) (WoS)

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3. Kumar B.V., Vijayarangan R., Thirumurugan V., **Sugumaran S.**, Raghunathareddy M.V., Empirical Analysis of Energy Harvesting and Clustering Methods for D2D Communication Systems, 2023 International Conference on Evolutionary Algorithms and Soft Computing Techniques, EASCT 2023, PP 01-16, 2023 (Scopus)
4. **Srinivas C.H.V.V.S.**, Borugadda S., Channel Estimation and Sparse Signal Processing in mm- Wave MIMO Systems Channel Estimation and Sparse Signal Processing in mm- Wave MIMO Systems, 2023 7th International Conference On Computing, Communication, Control And Automation, ICCUBEA 2023, pp.1 to 6, 2023 (Scopus)
5. **Chandra K.R.**, Manikanta S.P., Durgachandramouli Y., Mowlika P.S.S.N., **Srinivas C.H.V.V.S., Budumuru P.R.**, Optimizing Multi-Cell NOMA System Performance with Power Allocation and SIC Analysis, 3rd IEEE International Conference on Mobile Networks and Wireless Communications, ICMNWC 2023, PP. 1-4, 2023 (Scopus)
6. **Prasad D.D., Lahari P., Nandini G., Harshitha Y.T.P., Sireesha P.V.P., Kumar J.D.**, Live Telecasting Robo using Arduino Uno, 2023 2nd International Conference on Advances in Computational Intelligence and Communication, ICACIC 2023, pp. 1-6, 2023 (Scopus)

7. **Srinivas C.V.V., Prasanna V.L., Ramya S., Murthy L.D.S.S., Lakshmi N.D.N., Varma A.K.C.,** Antenna Hybrid Beamforming Technique in mm-Wave MIMO Systems, 2023 3rd International Conference on Advancement in Electronics and Communication Engineering, AECE 2023, PP. 991-996, 2023 (Scopus)
8. **Murthy S.V.S.N., Vijjapu A., Kumar D.V., Vinod G.V., Rajasekhar K., Srinivas C.H.V.V.S.,** Metal Detecting Robot with Location Transmission System, 7th International Conference on Electronics, Communication and Aerospace Technology, ICECA 2023 - Proceedings, PP. 55-60, 2023 (Scopus)
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10. **Chandra K.R., Nakka T., Nadigatla N., Vardhan Reddy N.V.S.T.S., Nulu S., Kali A.,** Empowering Safety: Arduino-Based Alert System Design and Implementation for Women, 7th International Conference on Electronics, Communication and Aerospace Technology, ICECA 2023 - Proceedings, PP. 300-305, 2023 (Scopus)
11. **Venkateswara Rao C., Chegondi S., Myla K., Murala S., Myla S.S., Kalava D.R.,** IoT Based Smart Helmet for Bike Rider Safety, 7th International Conference on Electronics, Communication and Aerospace Technology, ICECA 2023 - Proceedings, PP. 1445-1448, 2023 (Scopus)
12. **Durga Prasad D., Subba Rami Reddy K.V., Ravi Kumar P., Satyanarayana B.V.V., Pathi A.M.V., Kumar G.P.,** Feeding Pets using Automation Technology and Google Assistant, 7th International Conference on Electronics, Communication and Aerospace Technology, ICECA 2023 - Proceedings, PP. 224-229, 2023 (Scopus)
13. **Subba Reddy M.K.V., Priya Harika T., Bharath Pali D.S.H., Pala S.A., Kanchi G., Kodiboina K.,** IoT Based Saline Level Monitoring System, 7th International Conference on Electronics, Communication and Aerospace Technology, ICECA 2023 - Proceedings, PP. 1453-1457, 2023 (Scopus)
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15. **Ch V.R., Subba Reddy M.K.V., Kishore J., Phani Sirisha R.V., Srinivasa Seshagiri Rao B., Killamsetti H.,** Optimizing Indoor Air Quality: A Fuzzy Logic-based Control System, 2nd International Conference on Automation, Computing and Renewable Systems, ICACRS 2023 - Proceedings, PP. 1053-1057, 2023 (Scopus)

16. **Kumar G.P.**, Arputharaj V.J., Kumar P.R., Kumar D.V., **Satyanarayana B.V.V.**, **Budumuru P.R.**, A Comprehensive Review on Image Restoration Methods due to Salt and Pepper Noise, 2nd International Conference on Automation, Computing and Renewable Systems, ICACRS 2023 - Proceedings, PP. 562-567, 2023 (Scopus)
17. **Ch V.R.**, Ch V., **Reddy M.K.V.S.**, Raju K.S., Sirisha R.V.P., **Killamsetti H.**, Advanced Forest Fire Alert System with Real-time GPS Location Tracking, 2nd International Conference on Automation, Computing and Renewable Systems, ICACRS 2023 - Proceedings, PP. 95-99, 2023 (Scopus)
18. **Satyanarayana B.V.V.**, **Prasanna Kumar G.**, **Budumuru P.R.**, Kiranmayi Sridhara S.V., Swathi S., Phani T.S.S., Design and Performance Analysis of 11-T SRAM Cell with BTI Reliability, 2nd International Conference on Automation, Computing and Renewable Systems, ICACRS 2023 - Proceedings, PP. 166-173, 2023 (Scopus)
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21. Keerthi T., Kumari A., Chinnaiah M.C., Basha M., Chekuri R.R., Krishna D.H., **Padmavathy N.**, An Automatic Vehicle Speed Controlling based on Traffic Signs Recognition using Convolutional Neural Network, 2023 14th International Conference on Computing Communication and Networking Technologies, ICCCNT 2023, PP. 01-05, 2023 (Scopus)
22. **Chandra K.R.**, Ramyanjani P., Farid S., Himaja S., Vesli R.J., Reddy S.S.K., Vehicle Accident Location Tracking System Using GSM and GPS, Proceedings of the 4th International Conference on Smart Electronics and Communication, ICOSEC 2023, PP. 163-167, 2023 (Scopus)
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24. Subbarao M.V., Rani U.L.S., Sindhu J.T.S., **Kumar G.P.**, Ravuri V., Silpa N., A Comprehensive Study of Machine Learning Algorithms for Date Fruit Genotype

Classification, International Conference on Applied Intelligence and Sustainable Computing, ICAISC 2023, PP 01-04, 2023 (Scopus)

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27. Prasada Rao Borra S., Sandiri R., Nalajala P., Majji S., Saravanakumar C., **Chandra K.R.**, Towards Human-Like Robotic Grasping for Industrial Applications Using Computer Vision, Lecture Notes in Networks and Systems, Vol. 665 LNNS, PP. 173-181, 2023 (Scopus)
28. **Chandra K.R.**, Borugadda S., Multi Agent Deep Reinforcement learning with Deep Q-Network based energy efficiency and resource allocation in NOMA wireless Systems, 2023 2nd International Conference on Electrical, Electronics, Information and Communication Technologies, ICEEICT 2023, pp. 1-8, 2023 (Scopus)
29. **Ramakrishna C., Krishna Chaitnaya Varma A., Orugu R., Srinivas Ch V.V.S., Subba Reddy M K.V., Rao Ch V.**, Design of Microstrip Patch Antenna at 3.5 GHz Frequency Using FEKO Simulation, 2023 2nd International Conference on Electrical, Electronics, Information and Communication Technologies, ICEEICT 2023, PP. 01-05, 2023 (Scopus)
30. Ykuntam Y.D., Penumutchi B., **Gubbala S.**, Design of Speed and Area Efficient Non Linear Carry Select Adder (NLCSLA) Architecture Using XOR Less Adder Module, Lecture Notes in Electrical Engineering, Vol. 992 LNEE, PP. 81-91, 2023 (Scopus)
31. Narendra Babu A., Brahmanandam P.S., Uma G., Pushpa K., **Srinivas K.**, Praneetha A., Tropospheric Zenith Delay (TZD) for Microwaves During Severe Weather Events Over a Few Indian Stations, Lecture Notes in Electrical Engineering, Vol. 992 LNEE, PP. 165-172, 2023 (Scopus)
32. **Raju B.E.**, Sankar M.R., Kumar T.S., **Chandra K.R.**, Durga V.B., **Kumar G.P.**, Modified Encryption Standard for Reversible Data Hiding using AES and LSB Steganography, 2023 International Conference on Computer Communication and Informatics, ICCCI 2023, pp. 1-5, 2023 (Scopus)

33. **Matta V.P., Miriyala R.S., Gayatri Sarman K.V.S.H., Reddy M K.V.S., Pathi A M.V., Venkateswara Rao C.,** Energy Efficient Smart Street Light System based on Pulse Width Modulation and Arduino, 2023 International Conference on Computer Communication and Informatics, ICCCI 2023, pp. 1-5, 2023 (Scopus)
34. **Srinivas C.V.V.S., Lakshmi N.D.N., Varma A.K.C.,** Implementation of Beam Selection Algorithm in Millimeter Wave MIMO Systems, 2023 International Conference on Computer Communication and Informatics, ICCCI 2023, pp. 1-6, 2023 (Scopus)
35. **Prasad D.D., Subba Rami Reddy K.V., Akash N., Dakshayani K., Jessica N., Krishna C.R.,** Identification of Gender and Age using Classification and Convolutional Networks, 2023 International Conference on Computer Communication and Informatics, ICCCI 2023, PP. 01-04, 2023 (Scopus)
36. **Prasad D.D., Guttula P., Manasa T.S.R., Sri V.B., Prashanth T., Sai P.N.,** Emotion Analysis of Tweets, 2023 International Conference on Computer Communication and Informatics, ICCCI 2023, PP. 01-04, 2023 (Scopus)
37. **Orugu R.,** Nesasudha M., **Janapala D.K.,** LP/CP Re-configurable Antenna for 5G Applications, 2023 International Conference on Computer Communication and Informatics, ICCCI 2023, pp. 1-4, 2023 (Scopus)
38. **Vijjapu A., Vinod Y.S., Murty S.V.S.N., Raju B.E., Satyanarayana B.V.V., Kumar G.P.,** Steganalysis using Convolutional Neural Networks-Yedroudj Net, 2023 International Conference on Computer Communication and Informatics, ICCCI 2023, pp. 1-7, 2023 (Scopus)
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40. **Venkateswara Rao C., Swathi S., Charan P.S.R., Santhosh Kumar C.V.V., Pathi A.M.V., Praveena V.,** Evaluation of Sound Propagation, Absorption, and Transmission Loss of an Acoustic Channel Model in Shallow Water, Lecture Notes in Networks and Systems, Vol. 613 LNNS, PP. 455-465, 2023 (Scopus)
41. **Varma T.P., Naraganeni S., Chandra K.R., Rao K.P., Pathi M.V.A., Venkateswara Rao C.,** Performance Evaluation of MIMO System with Different Receiver Structures, 2023 9th International Conference on Advanced Computing and Communication Systems, ICACCS 2023, PP. 829-833, 2023 (Scopus)

42. Raju G.R.L.V.N.S., Nikitha T.N., Ram G.C., Chary U.G., Vardhan J.N.V., **Kumar J.D.**, Area Optimised Efficient Multiplication Using Modified Round Square Approximation, 2023 IEEE International Conference on Integrated Circuits and Communication Systems, ICICACS 2023, PP. 01-04, 2023 (Scopus)
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48. **Venkateswara Rao C.**, Ravi Sankar M., **S R Charan P., Bavya Sri V., Bhaavan Sri Sailesh A., Sri Uma Suseela M., Padmavathy N.**, Analysis of Acoustic Channel Model Characteristics in Deep-Sea Water, Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNICST, Vol. 472 LNICST, PP. 234-243, 2023 (Scopus)
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52. **Padmavathy N.**, Jhansi K.S., Ormila K., Valarmathi B., Information Theoretic Heuristics to Find the Minimal SOP Expression Considering Donâ€™t Care Using Binary Decision Diagrams, Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNICST, Vol. 472 LNICST, PP. 86-111, 2023 (Scopus)
53. Rao A.P., **Bhaskar J., Kumar G.P.**, Machine Learning Framework for Identification of Abnormal EEG Signal, Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNICST, Vol. 472 LNICST, PP. 42-54, 2023 (Scopus)
54. Sarkar A., Kundu M., **Pareek P.**, Gupta N., Reis M.J.C.S., IoT Enabled Driver Compatible Cost-Effective System for Drowsiness Detection with Optimized Response Time, Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNICST, Vol. 472 LNICST, PP. 159-169, 2023 (Scopus)
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60. Venkatrao K., Sriramam Y.S.S., Suguna N., Tirumani N.P., **Rama Krishna C.**, Murali Krishna C., Modern Four-Port MIMO Antenna Design Using Bended Curves for 5G Communications, Lecture Notes in Networks and Systems, Vol. 492, PP. 681-693, 2023 (Scopus) (WoS)
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62. **Maurya N.K.**, Ghosh J., **Subramanian S.**, Polarization-Insensitive Tunable UWB Metasurface Absorber with Wide-Angle Characteristics, 2023 8th International Conference on Computers and Devices for Communication, CODEC 2023, pp. 1-2, 2023 (Scopus)
63. Gupta N., **Pareek P.**, Reis M.J.C.S., Preface, Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNICST, Vol. 472 LNICST, 2023, (Scopus)
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FACULTY PUBLICATIONS (ECE) : 2022

JOURNALS:

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