# E&TC Department Publications: A. Y. 2020-21

| Sr. No. | Authors Name | Paper Title | Name of Journal/ Conference | Vol., Issue no. /Date | SCI/ Scopus/ UGC listed/ Other |
|---|---|---|---|---|---|
| 1 | Amitkumar Khade, Sandeep Musale, Ravikant Suryawanshi | A DTMOS-based power efficient recycling folded cascode operational trans conductance amplifier | Analog Integrated Circuits and Signal Processing | Volume-107 | SCI |
| 2 | Ratnaprabha Borhade, Manoj Nagmode | Modified Atom Search Optimization-based Deep Recurrent Neural Network for epileptic seizure prediction using electroencephalogram signals | Biocybernetics and Biomedical Engineering- Elsevier | Volume-40, Issue-4 | SCI |
| 3 | Hemlata Marne, Prachi Mukherji, Makarand Jadhav, Sachin Paranjape | Bio-inspired hybrid algorithm to optimize pilot tone positions in polar code based OFDM interleave division multiple access system | International Journal of Communication Systems | Volume-34, Issue-3 | SCIE |
| 4 | Manasi Pathade, Madhuri Khambete | Supervised Method for Congestion Detection at Entry and Exit Corridors of Public Places | International Journal of Image and Graphics | Volume-21, Issue-1 | ESCI & Scopus |
| 5 | Mahesh Pote, Prachi Mukherji | Design of Microstrip Patch Antenna using Defected Ground Structure for WiMAX Application | International Journal of Advanced Science and Technology | Volume-29, Issue-8 | Scopus |
| 6 | Mahesh Pote, Prachi Mukherji | Inverted arrow Shaped Microstrip Patch Antenna using Defected Ground Structure for Modern Wireless Communication | Solid State Technology | Volume-63, Issue-6 | Scopus |
| 7 | Megha Borse | Detection based on multi band EEG Transmission network instability, mature & smart sleep apnea | International Journal of Advanced science & Technology | Volume-29, Issue-4 | Scopus |
| 8 | Ashwini Deshpande, Manali Gaikwad, Saudamini Patki, Aditee Rathi, Sampa Roy | Shadow detection from aerial Imagery with morphological preprocessing and pixel clustering methods | ICTACT Journal on Image and Video Processing | Volume-11, Issue-3 | UGC listed |
| 9 | Amruta Chaudhari, Prachi Mukherji | Improved performance of antenna using DGS for 5G applications | International Research Journal of Engineering and Technology | Volume-7, Issue-9 | Other |
| 10 | Rajrajeshwari Kulkarni, Aishwarya Kale, Sharada Ohatkar | Spatial Modulation for Future Wireless Network | International Journal of Research and Analytical Reviews | Volume-8, Issue-1 | Other |
| 11 | Sharada Ohatkar, Anuradha Hadkar, Apeksha Jain, | Acoustic mobile camera for Sound Localization | Gradiva Review Journal | Volume-7, Issue-6 | Other |

| | Harshada Kadus | | | | |
|---|---|---|---|---|---|
| 12 | Anita Patil<br>Sayli Hulwan | Heart-Rate Variability Estimation Using Photoplethysmography Signal | International Journal of Advanced Research in Science, Communication and Technology | Volume-9, Issue-2 | Other |
| 13 | Yoshita Sudhir Dharmadhikari,<br>Aditi Vivek Haldule,<br>Vidya Sisale | Human detection and rescue system by ROBOT | International Engineering Research Journal | Volume-3, Issue-4 | Other |
| 14 | Tripti Chanda,<br>Aishwarya Bapat,<br>Apurva Amritkar,<br>Heeral Kabra,<br>G.V.Ramanrao,<br>Sagar Vanarase | Acoustic Release using Fusible Link | International Journal of Scientific & Engineering Research | Volume-11, Issue-8 | Other |
| 15 | Bageshree Pathak<br>Pranjali Deshmukh,<br>Pallavi Raut,<br>Prabodhini Dhatrak | Classification of Anxiety Disorder and Depression Disorder from EEG using SVM | International Journal of Creative Research Thoughts | Volume-9, Issue-6 | Other |
| 16 | Bageshree Pathak,<br>Dipannita Banerjee,<br>Apeksha Kedari,<br>Swarali Jagtap | Seizure Detection from EEG Signals using Wavelets and Three Different Classifiers | The International Journal of Analytical And Experimental Modal Analysis | Volume-13, Issue-6 | Other |
| 17 | Bageshree Pathak,<br>Ankita Shitkal,<br>Roshni Wankhede,<br>Vijayshree Shelke | Design and Implementation of Human Lie Detector using Polygraph for Stressful Situations using four Biomedical Sensors | Gradiva Review Journal | Volume-7, Issue-6 | Other |
| 18 | Divyani Taley<br>Bageshree Pathak | Comprehensive Study of Software Testing Techniques and Strategies: A Review | International Journal of Engineering Research & Technology | Volume-9, Issue-8 | Other |
| 19 | Bageshree Pathak<br>Chinmayi Dhole,<br>Harshada Hajare,<br>Mrunal Zambare | Stress Detection From Speech Signal Using MFCC, SVM and Machine Learning Techniques | International Journal of Latest Trends in Engineering and Technology | Volume-17, Issue-3 | Other |
| 20 | Akansha Thakarke,<br>Sakshi Ugale,<br>Sneha Nale,<br>Mrudul Dixit | Credit Card Fraud Detection Using Bagging and Boosting Algorithms | International Research Journal of Engineering and Technology | Volume-7, Issue-5 | Other |
| 21 | Gauri Ashok Badhe,<br>Sushmita Bahadurkar,<br>Apeksha Mane,<br>Shubhangi Chaudhary | Health Monitoring System | International Journal of Advanced Research in Computer and Communication Engineering | Volume-10 ,Issue-6 | Other |

| 22 | Pooja Mind,<br>Gayatri Palkar,<br>Aatmaja Mahamuni,<br>Shashikant Sahare | Smart Stick for Visually Impaired | International Journal of Engineering Research & Technology | Volume-10,<br>Issue-6 | Other |
|---|---|---|---|---|---|
| 23 | Shraddha Yamyar,<br>Vaishnavi Bhandarkar<br>Vidya Sisale | An Intelligent Coin Dispensing Machine with Fake Note Detection | International Journal of Engineering Research & Technology | Volume-10,<br>Issue-5 | Other |
| Conference publications | | | | | |
| 24 | Smita Bhagwat,<br>Prachi Mukherji | Temporal Feature Extraction for Improving Myoelectric based Recognition of Prosthetic Hand | 2020 International Conference on Wireless Communications Signal Processing and Networking (WiSPNET) | September 2020 | Scopus |
| 25 | Jyoti Kavathekar<br>Ashwini Deshpande | Comparative Analysis of Least Squares method and Extended Kalman filter for Position Estimation in GPS Receiver | International Conference on Signal and Data Processing ICSDP-2019 | January 2021 | Scopus |
| 26 | Bageshree Pathak,<br>Aditi Karjole,<br>Snehal Gajbhiye,<br>Sonali Pawar | Comparison between CNN and RNN techniques for Stress Detection using Speech | Innovations in Computer Science and Engineering Proceedings of 8th ICICSE | August 2020 | Scopus |
| 27 | Bageshree Pathak,<br>Shipra Mittal,<br>Komal Shinde,<br>Pranjali Pawar | Comparison between LSTM and RNN Algorithm for Speech to Speech Translator | 3rd International Conference on Communication, Circuits, and Systems (iC3S 2020) | October 2020. | Scopus |
| 28 | Mrudul Dixit, Sai Deshmukh, Mannase Dongaonkar, Snehal Jadhav | Road accident analysis using Random forest algorithm | 4th International Conference on Recent Trends in Communication & Electronics (ICCE-20) | November 2020 | Scopus |
| 29 | Rupali Pawar | LSB and RLE based approach for increasing payload and security of Stego images | International Conference on Advances in Artificial Intelligence and Data Engineering | August 2020 | Scopus |
| 30 | Ganesh Padalkar,<br>Shivani Patil,<br>Mukta Hegadi,<br>Nikita Jaybhaye | Drug Discovery using Generative Adversarial Network with Reinforcement Learning Drug Discovery using Generative Adversarial Network with Reinforcement Learning | International Conference on Computer Communication and Informatics (ICCCI)2021 | January 2021 | Scopus |
| 31 | Tejashri Kelhe,<br>Chaitanyasuma Jain,<br>Mansi Bhandarkar,<br>Ashwini Deshpande, | A Smart Early Warning System for Disease Outbreak with a Case Study of COVID-19 in India | IEEE Pune Section International Conference (PuneCon) | March 2020 | Scopus |