



# R.M.K. COLLEGE OF ENGINEERING AND TECHNOLOGY

RSM NAGAR, PUDUVOYAL- 601206



## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### FACULTY CONFERENCE PUBLICATIONS

#### ACADEMIC YEAR 2022-2023

1. **Swetha Reddy A**, Vangimalla Nagarjuna, Tathireddy Venkata Mahesh, Tamba Aravind Royal, Sagiraju Vivid Varma, "**Detection Of Stress in Humans Wearing Face Masks Using Machine Learning And Image Processing**" Third International Conference on Electronics and Sustainable Communication Systems (ICESC 2022), organized by, Hindusthan Institute of Technology, Coimbatore, India on 17.08.2022 to 19.08.2022.
2. **Nithiya C., Praveena N G., Samuda Prathima., Komathi B J.**, "**Design of Low Power Adaptive path changing Glitch free Radix-4, Radix-8 Multipliers**" Third International Conference on Electronics and Sustainable Communication Systems (ICESC 2022), organized by, Hindusthan Institute of Technology, Coimbatore, India on 17.08.2022 to 19.08.2022.
3. **Shanthi K G., Sandhiya G.**, Abinaya K., Akula Sangeetha., Aruna T., Aswini R., "**Performance Analysis of Vedic Multiplier and Modified Vedic Multiplier in Direct Digital Synthesizer**" Third International Conference on Electronics and Sustainable Communication Systems (ICESC 2022), organized by, Hindusthan Institute of Technology, Coimbatore, India on 17.08.2022 to 19.08.2022.
4. **Dr. Arun Chokkalingam.**, "**Automatic Approach to Detect Turner Syndrome (TS) Using Hand X-rays Based on Feature Extraction and Principal Component Analysis (PCA)**", Third International Conference on Advances in Physical Sciences and Materials (ICAPSM 2022), organized by, KPR Institute of Engineering Technology Coimbatore Tamil Nadu, India on 17.08.2022 to 19.08.2022.
5. **Dr. S Muthumanickam.**, "**Air pollution monitoring using LoRaWAN Connectivity**", 3rd International Conference on Microelectronics, Computing Systems, Machine Learning & Internet of Things (MCMCI-2022), organized by, ISVE at Advanced Regional Telecom Training Centre, BSNL, Hazaribag Road, Ranchi-835217, Jharkhand, India on 17.09.2022 & 18.09.2022.

6. **Sesha Vidhya S., Shanthi KG., Sivalakshmi P.,** Vishmitha D., Vineesha Chowdary V., Yamini M., Yoshika K., "**Kidney stone Detection using deep learning and transfer learning**", 4th International Conference on Inventive Research in Computing Applications ICIRCA 2022, organized by R V S College of Engineering and Technology, Coimbatore, India., on 21.09.2022 to 23.09.2022.
7. **Shanthi K G., Sivalakshmi P.,** Sakthishree V., **Sesha Vidhya S.,** Jahnvi S., Sreemouna M., Srichandana T., "**Atelectasis, Cardiomegaly and Effusion Disease Prediction using Image Processing (Convolutional Neural Networks)**", 4th International Conference on Inventive Research in Computing Applications ICIRCA 2022, organized by R V S College of Engineering and Technology, Coimbatore, India., on 21.09.2022 to 23.09.2022.
8. **Shanthi K G., Babu M., Arthi Devarani P.,** Santhosh Kumar S., Sanjay Kumar S., Sanjay S., Ragasupraja S., "**Web Based Assessment And Training Model For Dyslexia Dyscalculia Dysgraphia Dyspraxia ADHD & Autism**", 4th International Conference on Inventive Research in Computing Applications ICIRCA 2022, organized by R V S College of Engineering and Technology, Coimbatore, India., on 21.09.2022 TO 23.09.2022.
9. **Sesha Vidhya S.,** "Parkinson's Disease Detection using Machine Learning" National level conference on Promoting Innovations in Environmental Research and Science (PIERS), organized by, Bannari Amman Institute of Technology, Erode on 18.10.2022 and 19.10.2022.
10. **Dr. Arun Chokkalingam.,** Bavani M., Chilaka Preethi., Iswariya V., Kavuturu Varalaxmy Nithya., "**Automating the process of monitoring fish pond water using IoT**", 3rd International Conference on Smart Electronics and Communication (ICOSEC-2022), organized by, Kongunadu Engineering College of Engineering and Technology, Trichy, Tamil Nadu, India on 20.10.2022 to 22.10.2022.
11. **Vishnupriya S.,** Darwin Nesakumar A., Mounika S., Pavithra K N., "**Mysterious Action Detection by Speed And Displacement Analysis In Image Processing**"., 2022 International Interdisciplinary Humanitarian Conference for Sustainability (IIHC), organized by, Sri Venkateshwara College of Engineering Bengaluru, India on 18.11.2022 and 19.11.2022
12. **Arthi Devarani P.,** Lokesh Ram A., Darthi V., Athul V G., Sai Shravanthi E V., "**Disposal of Mask**", Second International Conference on Innovations in Electronics and Communication Systems ICIECS 2022, organized by, R.M.K. College of Engineering and Technology on 24.11.2022 to 26.11.2022.

13. **Arthi Devarani P., Dr Inbamalar T M., Dr Chettiyar Vani Vivekanand.,** Swetha R., Sneha R., Nivetha R., “**Blood Bank Management System Through Website Application**” Second International Conference on Innovations in Electronics and Communication Systems ICIECS 2022, organized by, R.M.K. College of Engineering and Technology on 24.11.2022 to 26.11.2022.
14. **Manimegalai L.,** Priyadarsini S., Priyadarshini S., Punithamary M., Pavithra V., “**Application of Digital Signal Processing Techniques in Communication**”, Second International Conference on Innovations in Electronics and Communication Systems ICIECS 2022, organized by, R.M.K. College of Engineering and Technology on 24.11.2022 to 26.11.2022.
15. **Rajalakshmi.S.,** Vaishali N., Vemanaboina Akshitha., Ushasree M., “**IOT Based Drowsiness Detection System For Drivers**” Second International Conference on Innovations in Electronics and Communication Systems ICIECS 2022, organized by, R.M.K. College of Engineering and Technology on 24.11.2022 to 26.11.2022.
16. Vasantha Krishnan S., **Chettiyar Vani Vivekanand.,** Sandeep V., Sundarrajan P., Umesh D., “**Forest Fire Detection**”, Second International Conference on Innovations in Electronics and Communication Systems ICIECS 2022, organized by, R.M.K. College of Engineering and Technology on 24.11.2022 to 26.11.2022.
17. **Kannagi V.,** Swetha R., Madhuri A., Deepthi J., “**Detection Of Diseases In Flora Through Leaf Image Classification By Convolution Neural Network**”, Second International Conference on Innovations in Electronics and Communication Systems ICIECS 2022, organized by, R.M.K. College of Engineering and Technology on 24.11.2022 to 26.11.2022.
18. **Chettiyar Vani Vivekanand.,** T J Gopikrishna., Saravanakumar J., Sundarrajan P., Varshini S., “**Tampering With The Cameras/Sensitivity Or High Priority Area**”, Second International Conference on Innovations in Electronics and Communication Systems ICIECS 2022, organized by, R.M.K. College of Engineering and Technology on 24.11.2022 to 26.11.2022.
19. **Sesha Vidya S.,** Yeshwanth V G., Srinath M., Yogesh B., “**HelioDrive Solar Tracker with Cleaner**”, ”, Second International Conference on Innovations in Electronics and Communication Systems ICIECS 2022, organized by, R.M.K. College of Engineering and Technology on 24.11.2022 to 26.11.2022.
20. **Sesha Vidya S.,** Sreemitha T S., Varshini S., “**Smart Glass 3.O**”, Second International Conference on Innovations in Electronics and Communication Systems ICIECS 2022, organized by, R.M.K. College of Engineering and Technology on 24.11.2022 to 26.11.2022.

21. Rampriya S., **Chettiyar Vani Vivekanand.**, Priyadharshini.S., Pavithra.V., Yarlappalli Swetha., “**Analysis Of Modulation Schemes in Digital Communication Systems**”, Second International Conference on Innovations in Electronics and Communication Systems ICIECS 2022, organized by, R.M.K. College of Engineering and Technology on 24.11.2022 to 26.11.2022.
22. **Sesha Vidhya S.**, Nikitha.R., Nandhini S., Nandhini E., Nivetha .V., “**Plant Soil Moisture and PH Sensing Alarm using Microcontroller**”, Second International Conference on Innovations in Electronics and Communication Systems ICIECS 2022, organized by, R.M.K. College of Engineering and Technology on 24.11.2022 to 26.11.2022.
23. **Dr. Shanthi K G.**, Amirah Lakshmi V R., Deepika S., Thangameenatchie R., “**Smart Watch For Health Monitoring System**” Second International Conference on Innovations in Electronics and Communication Systems ICIECS 2022, organized by, R.M.K. College of Engineering and Technology on 24.11.2022 to 26.11.2022.
24. **Dr. T. M. Inbamalar.**, Aarthi R., Ezhilpriya K E., Jayashree S., Maaneesha S., “**IOT Based Nephrolithiasis Detection Using CNN Classification Method**” Second International Conference on Innovations in Electronics and Communication Systems ICIECS 2022, organized by, R.M.K. College of Engineering and Technology on 24.11.2022 to 26.11.2022.
25. **Rajalakshmi S.**, Urmila P., Yagnamurthy Subbu Venkata Harichandana., Yagnavajjula Rishitha., “**Speed Monitoring System For Vehicle Using Arduino**”, Second International Conference on Innovations in Electronics and Communication Systems ICIECS 2022, organized by, R.M.K. College of Engineering and Technology on 24.11.2022 to 26.11.2022.
26. **Chettiyar Vani Vivekanand.**, Revathi.V., Punithamary.M., Priyadarsini.S., Tathiparthi Neha Reddy., “**Polar Codes: Encoding And Decoding Of Symmetric Binary Discrete Memoryless Channel**”, Second International Conference on Innovations in Electronics and Communication Systems ICIECS 2022, organized by, R.M.K. College of Engineering and Technology on 24.11.2022 to 26.11.2022.
27. **Nithiya C.**, Aswini N., Lakshmi Priya S., Nivetha S., “**Wireless Sensor Network (WSN) In Wireless Communication**” Second International Conference on Innovations in Electronics and Communication Systems ICIECS 2022, organized by, R.M.K. College of Engineering and Technology on 24.11.2022 to 26.11.2022.
28. **Dr. Inbamalar T M.**, Lokesh Ram A., Athul V G., Dhinakaran T., “**IOT based low cost ECG Monitoring System**” Second International Conference on Innovations in Electronics and Communication Systems ICIECS 2022, organized by, R.M.K. College of Engineering and Technology on 24.11.2022 to 26.11.2022.

29. **Manimegalai L.**, Harish.R., K. Masthan Gowtham., Perim Ganesh., “**Eco Friendly Litter Management for Sustainable Environment**”, Second International Conference on Innovations in Electronics and Communication Systems ICIECS 2022, organized by, R.M.K. College of Engineering and Technology on 24.11.2022 to 26.11.2022.
30. **Sesha Vidhya S.**, Priyanka A., Pavitra Kiruthika J., Sandhiya S Sahana S., “**Voice Controlled Wheelchair for Physically Disabled Person**”, Second International Conference on Innovations in Electronics and Communication Systems ICIECS 2022, organized by, R.M.K. College of Engineering and Technology on 24.11.2022 to 26.11.2022.
31. **Sesha Vidhya S.**, Nivetha R., Nethra P., Ranjitha S., Reshma B., “**Development of easy operating systems for locomotor disability person through voice automated roof top horticulture mobile app**”, Second International Conference on Innovations in Electronics and Communication Systems ICIECS 2022, organized by, R.M.K. College of Engineering and Technology on 24.11.2022 to 26.11.2022.
32. **Chettiyar Vani Vivekanand.**, Shalini N., Shanija S., Somu Akhileswari R., Sweatha B., “**Bit Error Estimation Using Monte Carlo Method**”, Second International Conference on Innovations in Electronics and Communication Systems ICIECS 2022, organized by, R.M.K. College of Engineering and Technology on 24.11.2022 to 26.11.2022.
33. **Sesha Vidhya S.**, Purushothaman.R., Nanda G., Navaneetha Krishnan., Muckesh K S., “**Design of Low Power Universal Shift Register**”, Second International Conference on Innovations in Electronics and Communication Systems ICIECS 2022, organized by, R.M.K. College of Engineering and Technology on 24.11.2022 to 26.11.2022.
34. Srinivasulu Sirisala., Nihar Ranjan Behera., Dr. D.Amuthaguka., Dr. Sachin Vasant Chaudhari., Jhakeshwar Prasad., **Swetha Reddy A.**, “**Reliable Densely Connected Network with Machine Learning based Diabetic Retinopathy Grading Approach**”, 2022 International Conference on Automation, Computing and Renewable Systems (ICACRS 2022), organized by, Mount Zion College of Engineering and Technology on 13.12.2022 to 15.12.2022.
35. **Samuda Prathima., Sivachandar K., Praveena N G., Nithiya C.**, Kamalesh D., Lokesh C., “**Low-cost Prototype for IoT-based Smart Monitoring through Telegram**”, 5TH INTERNATIONAL CONFERENCE ON SMART SYSTEMS AND INVENTIVE TECHNOLOGY (ICSSIT2023), organized by, Francis Xavier Engineering College on 23.01.2023 to 25.01.2023.

36. **Sesha Vidhya S., Shanthi K G.,** Neeta G, Priyadarshini P, Pujasaini N and Reshmika D “**Iris Recognition -A Multilayer Algorithm Based: CNN and Transfer Learning**”, IEEE 5th International Conference on Smart Systems and Inventive Technology, organized by, Francis Xavier Engineering College on 23.01.2023 to 25.01.2023.
37. **Shanthi K G., Sesha Vidhya S.,** Santhi S, Sai Dinesh P, Shashank Reddy P, Venkata Prasad M, "**Handy Non-Invasive Blood Glucose Estimator using Arduino and NodeMCU**", 2023 International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT), organized by, REVA University on 07.01.2023
38. **Sesha Vidhya S., Shanthi K G., Sivalakshmi P.,** Sohith Reddy V, Likith Varma V, Dileep Kumar V, Prasanth Reddy Y., "**Design of Wearable UWB Microstrip Patch Antenna for Wireless Body Area Network**", AIP Conference Proceedings 2523, 020158 (2023), <https://doi.org/10.1063/5.0111136>.
39. Haritha V., Latha. J., **Swetha Reddy A.,** N. Divya Bharathi., Shrikant Upadhyay., Venkatesh R., “**Energy Efficient Data Management in Health Care**”, 2023 Third International Conference on Artificial Intelligence and Smart Energy (ICAIS), organized by, JCT College of Engineering and Technology, Coimbatore, Tamilnadu, India on 02.02.2023 to 04.02.2023.
40. Chairma Lakshmi K R., Praveena B., Golden Stepha., **M.Theodore Kingslin., J Gurumurthy., Vijay Anandh R.,** “**Augmented Reality-Based Smart Home Automation Using Dynamic Vision Sensor**”, Proceedings of International Conference on Innovative Data Communication Technologies and Application (ICIDCA 2023), organized by Graphic Era Hill University, Dehradun, India on 14.03.2023 to 16.03.2023.
41. **Ms. Manimegalai L.,** Devaraaj V., Dhinakar M., Faizal Abbas A R., Gokulakrishnan S., "**YOLO based plastic object detection for eco friendly garbage collection**", 5th International Conference On Emerging Trends In Engineering And Technology [ICETET 2023], organized by St. Joseph College of Engineering on 19.04.2023 to 20.04.2023.
42. **Ms. Manimegalai L.,** Dhanalakshmi R., Dhanushiya E., Dhaarani S., Gopika Sri M., "**Detection Of Ripen Tomatoes With Real Time Data Acquisition Using CNN**", 5th International Conference On Emerging Trends In Engineering And Technology [ICETET 2023], organized by St. Joseph College of Engineering on 19.04.2023 to 20.04.2023.

43. **Dr. Shanthi K G.,** “**Cryptocurrency Price Prediction using LSTM and Recurrent Neural Networks**”, 2nd International Conference on Applied Artificial Intelligence and Computing (ICAAIC 2023), organized by, Narasu’s Sarathy Institute of Technology on 04.05.2023 to 06.05.2023.
44. Purnananda Rao P G., **Jai Ganesh S., Dhivya K.,** Purnananda Rao P G., Mohammed Asif Ibrahim S., “**Secure Tire using Machine Learning**”, 10th National Conference on “Recent Advancements In Signal Processing And Communication (NCRASPC-2023)” organized by, R.M.K. College of Engineering and Technology Tiruvallur District, Tamil Nadu, on 10.05.2023.
45. **Jai Ganesh Sekar., Dhivya K.,** Amirah Lakshmi V R., Deepika S., “**An Improved Chaos Based Colour Image Encryption Algorithm using Logistic Map and Wavelet Transform**”, 10th National Conference on “Recent Advancements In Signal Processing And Communication (NCRASPC-2023)” organized by, R.M.K. College of Engineering and Technology Tiruvallur District, Tamil Nadu, on 10.05.2023.
46. Yeswanth S., **Jai Ganesh S.,** Shankar J G., Srinath B S., Subramanian R., “**Car Accident Indicating System**”, 10th National Conference on “Recent Advancements In Signal Processing And Communication (NCRASPC-2023)” organized by, R.M.K. College of Engineering and Technology Tiruvallur District, Tamil Nadu, on 10.05.2023.
47. **Sesha Vidhya S.,** Nivetha R., Nethra P., Ranjitha S., Pulla Ramya Charitha., “**Automatic Irrigation using Sensors**”, 10th National Conference on “Recent Advancements In Signal Processing And Communication (NCRASPC-2023)” organized by, R.M.K. College of Engineering and Technology Tiruvallur District, Tamil Nadu, on 10.05.2023.
48. **Chettiyar Vani Vivekanand.,** Priyanka A., Priya Ts., Poojitha Ak., Pavithra Kruthika J., “**Implementation of Climate Friendly Food Grain Storage System**”, 10th National Conference on “Recent Advancements In Signal Processing And Communication (NCRASPC-2023)” organized by, R.M.K. College of Engineering and Technology Tiruvallur District, Tamil Nadu, on 10.05.2023.
49. **Mr. Vijay Anandh R.,** Gomathy G., Dhanushya R., “**Smart alert system for vehicles**”, 10th National Conference on “Recent Advancements In Signal Processing And Communication (NCRASPC-2023)” organized by, R.M.K. College of Engineering and Technology Tiruvallur District, Tamil Nadu, on 10.05.2023.

50. **Dr. Muthumanickam S.**, Devaraj P., Ganesh K., Gowtham S., Gokul N., “**Early Detection of Diseases with Iridology techniques using Daugman and Unsupervised Learning**”, 10th National Conference on “Recent Advancements In Signal Processing And Communication (NCRASPC-2023)” organized by, R.M.K. College of Engineering and Technology Tiruvallur District, Tamil Nadu, on 10.05.2023.
51. **Dr. Muthumanickam S.**, Chinthalapudi Pavan., Aishwarya S., Barkha Varshney A., “**Wireless sensor network attack prediction using AI**”, 10th National Conference on “Recent Advancements In Signal Processing And Communication (NCRASPC-2023)” organized by, R.M.K. College of Engineering and Technology Tiruvallur District, Tamil Nadu, on 10.05.2023.
52. **Dr. Muthumanickam S.**, Devaraj P., Gokul N., Gnanabarathy G., “**An Analytic Evaluation Of Muscular Diseases Using EMG Signal**”, 10th National Conference on “Recent Advancements In Signal Processing And Communication (NCRASPC-2023)” organized by, R.M.K. College of Engineering and Technology Tiruvallur District, Tamil Nadu, on 10.05.2023.
53. **Dhivya K.**, Sowmya B., Sundaravalli S., “**IoT based air Quality Monitoring Using Node MCU**”, 10th National Conference on “Recent Advancements In Signal Processing And Communication (NCRASPC-2023)” organized by, R.M.K. College of Engineering and Technology Tiruvallur District, Tamil Nadu, on 10.05.2023.
54. **Dr. Chettiyar Vani Vivekanand.**, Saravanakumar J., T J Gopikrishna., Srisha V., Thendral A., “**Advanced Geo-Location Finder For Rural Areas**”, 10th National Conference on “Recent Advancements In Signal Processing And Communication (NCRASPC-2023)” organized by, R.M.K. College of Engineering and Technology Tiruvallur District, Tamil Nadu, on 10.05.2023.
55. **Sesha Vidhya S.**, Sreemitha T S., Varshini S., “**IOT Based Drip Infusion Monitoring System**”, 10th National Conference on “Recent Advancements In Signal Processing And Communication (NCRASPC-2023)” organized by, R.M.K. College of Engineering and Technology Tiruvallur District, Tamil Nadu, on 10.05.2023.
56. **Chettiyar Vani Vivekanand.**, Yeshwanth V G., Srinath M., Yogesh B., Shalini N., “**Flying Escort**”, 10th National Conference on “Recent Advancements In Signal Processing And Communication (NCRASPC-2023)” organized by, R.M.K. College of Engineering and Technology Tiruvallur District, Tamil Nadu, on 10.05.2023.
57. **Sesha Vidhya S.**, Srinath M., Suriya Babu P., Tharun Raju S I., Sreemitha T S., “**Lassie's Shadow**”, 10th National Conference on “Recent Advancements In Signal Processing And Communication (NCRASPC-2023)” organized by, R.M.K. College of Engineering and Technology Tiruvallur District, Tamil Nadu, on 10.05.2023.



58. **Arun Chokkalingam.,** Kanniga Parameswari S., Kiruthika V., Koneti Kavya., “**Design And Construction Of Electric Bike**”, 10th National Conference on “Recent Advancements In Signal Processing And Communication (NCRASPC-2023)” organized by, R.M.K. College of Engineering and Technology Tiruvallur District, Tamil Nadu, on 10.05.2023.
59. **Arun Chokkalingam.,** Aarthi K R., Anusha R., “**Smart Portable Device For Trekking People In Forest**”, 10th National Conference on “Recent Advancements In Signal Processing And Communication (NCRASPC-2023)” organized by, R.M.K. College of Engineering and Technology Tiruvallur District, Tamil Nadu, on 10.05.2023.
60. **Dhivya K.,** Kaviya Sri R., Kavitha C., Keeerthanaa R., Mithra M D., “**Dual Axis Solar Tracker**”, 10th National Conference on “Recent Advancements In Signal Processing And Communication (NCRASPC-2023)” organized by, R.M.K. College of Engineering and Technology Tiruvallur District, Tamil Nadu, on 10.05.2023.
61. **Dhivya K.,** Hareni R., Hemalatha K., Jansi K., Kavishree R., “**Wireless Power Transfer**”, 10th National Conference on “Recent Advancements In Signal Processing And Communication (NCRASPC-2023)” organized by, R.M.K. College of Engineering and Technology Tiruvallur District, Tamil Nadu, on 10.05.2023.
62. **Dr. Muthumanickam S.,** “**LoRA WAN – Enabled Air Pollution monitoring for Smart Cities**”, 10th National Conference on “Recent Advancements In Signal Processing And Communication (NCRASPC-2023)” organized by, R.M.K. College of Engineering and Technology Tiruvallur District, Tamil Nadu, on 10.05.2023.
63. **N. Gangatharan., Swetha Reddy A.,** Saravanan C., Sairam Sathvik I V., Sabarish G., Sharun Krishnan U., “**A Comprehensive System for Automated Pothole Detection and Vehicle Speed Management using CNN Technology**”, 8th International Conference on Communication and Electronics Systems ICCES 2023, organized by PPG Institute of Technology Coimbatore, India, on 01.06.2023 to 03.06.2023.