



R.M.K COLLEGE OF ENGINEERING AND TECHNOLOGY



RSM NAGAR, PUDUVOYAL- 601206

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Paper Published in Journal by Faculty

Academic Year 2021-2022

1. **Dhivya K.**, Femina V., Vishvajit P V., Vadiveelan D., Suman.R and Vignesh K., **"Augmented Reality based Car Parking Application for Android"**, Revista Geintec-Gestao Inovacao E Tecnologias, Vol. 11, No. 2, June 2021, 651-654, ISSN 2234 0722. **(WOS)**
2. **Kannagi V., Inbamalar T M.**, Latha P and Kanya N, **"Backlobe Radiations Reduction with Patch Antenna Using Multilayered Dielectric Structure"**, Revista Geintec-Gestao Inovacao E Tecnologias, Vol. 11, No. 2 June 2021, ISSN 2237-0722, **(WOS)**
3. **Sivalakshmi P., Shanthi K G., Sangeethalakshmi K., SesaVidhya S and Sandhiya G,** **"Smart auction system flow model for Agro-Based sector farmers using blockchain technology"**, Materials Today: Proceedings, June 2021, ISSN 2214-7853, **(SCOPUS)**
4. **Sivalakshmi P.**, Udhaya Kumar P., Vasanth M., Srinath R., and Yokesh M., **"COVID-19 Vaccine - Public Sentiment Analysis Using Python's Textblob Approach"**, International Journal of Current Research and Review. 2nd Wave of COVID-19: Role of Social Awareness, Health and Technology Sector, Vol. 13 Issue 11, June 2021, 166-172, ISSN: 2231-2196(Print)ISSN: 0975-5241 (Online), **(SCOPUS)**
5. **Vijay Anandh R.**, Preetham S., Pratheep K., Punuru Bhanu Prakash Reddy and Ram Aravind U., **"Qualitative Analysis Of Underwater Image Enhancement"**, International Conference on Trends in Electronics and Informatics (ICOEI)", ISBN:978-1-6654-1571-2, June 2021, **(SCOPUS)**
6. **Shanthi K G., Sesa Vidhya S.**, Vishakha K., Subiksha S., Srija K K and Srinee Mamtha R., **"Algorithms for face recognition drones"**, Materials Today: Proceedings, June 2021, ISSN 2214-7853, **(SCOPUS)**

7. **Sangeethalakshmi K.**, Preethi Angel S., Preethi U., Pavithra S and Shanmuga Priya V., "**Patient health monitoring system using IoT**", Materials today Proceedings, (**SCOPUS**)
8. **Dhivya K., Kannan.K., Sathyaraj.P** and Rosaline.S., "**A Study on Realistic Route Preference with Improved QoS in Industries Via MANET**", Design Engineering (Toronto), Vol 2021, Issue: 6, June 2021, ISSN: 0011-9342, Pages: 1706 - 1718. (**SCOPUS**)
9. Kanya N, **Sandhiya G.**, Rajkumar M., Rajkumar P S and Pacha Shobha Rani , "**Efficient Supervising System for Aquatic Region Using Wireless Radar**", Revista Geintec-Gestao Inovacao E Tecnologias, Vol. 11 , No. 2, June 2021, ISSN 2234 0722, (**WOS**)
10. Kanya N, **Sandhiya G.**, Rajkumar M., Geetha S and Pacha Shobha Rani, "**An Efficient Damage Relief System based on Image Processing and Deep Learning Techniques**", Revista Geintec-Gestao Inovacao E Tecnologias, Vol. 11 , No. 2, June 2021, ISSN 2234 0722, (**WOS**)
11. **Kannan.K.**, Sai Rahul Kartheek G., Sai Manoj M V., Poorna Sai O and VamsiKrishna U, "**An Internet Of Things Based Advanced coal Mine Safety System using wireless Sensor Network**", Turkish Online Journal of Qualitative Inquiry, Vol.12, Issue: 3, June 2021, ISSN: 1309-6591, pp.4633-4638, (**SCOPUS**)
12. **Shanthi K G., Sesha Vidhya S.**, Vishali G., Uma R V., Thanuja M and Srinitha S, "**Industrial wireless sensor networks with real time data access**", Materials Today: Proceedings, July 2021, ISSN 2214-7853, (**SCOPUS**)
13. **Shanthi K G., Sivalakshmi P., Sesha Vidhya S and Sangeetha Lakshmi K.**, "**Smart drone with real time face recognition**", Materials Today: Proceedings, July 2021, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2021.07.214> (**SCOPUS**)
14. **Sesha Vidhya S., Shanthi K.G.**, Keerthana S., Nisha P., Monisha H and Nandhinin Devi G, "**Biometric Security Management Based On Internet Of Things**", Materials Today: Proceedings, July 2021, ISSN 2214-7853, (**SCOPUS**)
15. Saravanakumar C., Geetha M., Manoj Kumar S., Manikandan S., **Arun C** and Srivatsan K, "**An Efficient Technique for Virtual Machine Clustering and Communications Using Task-Based Scheduling in Cloud Computing**", Hindawi Scientific Programming, Vol. 2021, July 2021, (**WOS**)

16. **Sangeethalakshmi K., Shanthi K G.**, Mohan Raj A., Muthuselvan S., Mohammad Taha P and and Mohammed Shoab S, "**Hand gesture vocalizer for deaf and dumb people**", Materials Today: Proceedings, July 2021, ISSN 2214-7854, **(SCOPUS)**
17. **Babu M.**, Hemchandar R., Harish Y D., Akash R and Abishesk Todi K, "**Voice Prescription with End to End security Enhancement**", 2021 6th International Conference on Communication and Electronics Systems (ICCES), July 2021, **(SCOPUS)**
18. Rajkumar M., Shobha Rani P., **Sandhiya G.**, "**An Adaptive Intelligent Retrieval Approach For Disease And Dissimilarity Detection In Plant Leaves**", International journal of Modern Agriculture, Volume. 10, 2021, No.2, August 2021, ISSN 2305-7246, 4715-4720, **(SCOPUS)**
19. Ciyamala Kushbu S., **Inbamalar T M.**, "**Interactive One Way Contour Initialization for Cardiac Left Ventricle and Right Ventricle Segmentation Using Hybrid Method**", Journal of Medical Imaging and Health Informatics, Volume. 11, No. 4, July 2021, ISSN 2156-7018 (Print); ISSN 2156-7026 (Online), pp. 1037-1054 (18), **(WOS)**
20. Vinodhkumar., Durga and **Muthumanickam S.**, "**Numerical Study on SEU Performance of Strain Engineered 6T-SRAM Cells**", Journal of Circuits, Systems and Computers, August 2021, ISSN 0218-1266, **(WOS)**
21. Aishwarya N., Bennila Thangammal C and **Praveena N G.**, "**NSCT and focus measure optimization based multi-focus image fusion**", Journal of Intelligent & Fuzzy Systems, Volume. 41, No. 1, August 2021, **(SCI)**
22. Chockalingam Aravind Vaithilingam., Chockalingam Aravind Vaithilingam., Sivaramakrishnan Natesan., Rajalaxmi R R., Tamilarasi K., **Praveena NG.**, and Samsul Ariffin Abdul Karim, "**Evolution of Outbreaks, Lessons Learnt and Challenges Towards New Normalcy—Post COVID-19 World**", Shifting Economic, Financial and Banking Paradigm New Systems to Encounter COVID-19, Springer, August 2021, ISSN 2198-4182, 1-22, DOI: 10.1007/978-3-030-79610-5_1 **(SCOPUS)**
23. **Muthumaickam S.**, Keertana B., Lavanya L., Madhumitha S and Sathvikaa P, "**Hardware Implementation of Health Monitoring of Domestic Animals Using RFID**", IEEE Xplore, September 2021, ISSN 1803–7232, **(SCOPUS)**
24. Tharun J., Vishnupriyan J., **Muthumanickam S.**, and Chidambarathanu K, "**Intelligent battery management system**", IEEE Xplore, September 2021, ISSN 1803–7232, **(SCOPUS)**

25. **Babu M**, Sandhiya K and Preetha V, “**Design of Alumni Portal with Data Security**”, October 2021, Second International Conference on Electronics and Sustainable Communication Systems (ICESC), 4470, ISBN:978-1-6654-2867-5, **(SCOPUS)**
26. **Babu M**, B Shankaranarayanan, S Sanjay and Sathish Kumar GA, “**IoT Based Smart Bottle for Healthcare with an Efficient SMS4-Bsk Encryption Transmission System**”, 2021 Second International Conference on Electronics and Sustainable Communication Systems (ICESC), ISBN:978-1-6654-2867-5, **(SCOPUS)**
27. **Kannan Krishnan**, Yamini B, Wael Mohammad Alenazy and Nalini M, “**Energy - Efficient Cluster - Based Routing Protocol for WSN Based on Hybrid BSO –TLBO Optimization Model**”, The computer Journal, Vol. 64, No. ISBN: 0010-4620, **(WOS)**
28. Aishwarya N., **Praveena N.G.**, Akash Arumugam B.S and Pramod J, “**Photo Book Creation using Face Recognition and Machine Learning**”, Springer, Lecture Notes in Electrical Engineering, October 2021 **(SCOPUS)**
29. C. Saravanakumar., R. Priscilla., B. Prabha., A.Kavitha., M. Prakash and **C. Arun**, “**An Efficient On-Demand Virtual Machine Migration in Cloud Using Common Deployment Model**”, Computer Systems Science & Engineering, November 2021, **(SCIE)**
30. **Inba Malar T M**, Sivakumar Rajagopal, Amala Justus Selvam M, **Kannagi V, Bharatha Sreeja G, Chettiyar Vani Vivekanad, Jasmine Vijithra A** and Sanjeev Kumar N, “**Implementation of an Intelligent Neonatal Monitoring System using Raspberry Pi**”, ECS Transactions, November 2021, Vol.107, No:1, ISSN: 1938-6737 **(SCOPUS)**
31. **Inba Malar T M, Bharatha Sreeja G**, Amala Justus Selvam M, Jemima Sharon E, Jeevitha K, Keerthi R and Mahalashmi R, “**Intelligent Traffic Control System Using Deep Learning**”, ECS Transactions, November 2021, Vol.107, No:1, ISSN: 1938-6737 **(SCOPUS)**
32. **Chettiyar Vivekanand Vani, Jasmine Vijithra A**, Keerthi Vasan M, Kavimani B, Krishna Prasath V and Hariharan J, “**Alcohol Detection Using Automation**”, ECS Transactions, November 2021, Vol.107, No:1, ISSN: 1938-6737 **(SCOPUS)**

33. **Vijaya Anandh R, Sudharsanam V**, Vishnusripriya VD, Yagnavajjula Likhitha, and Thenila R, "**Detection of COVID-19 on Lung CT Images Using Semi Supervised Learning**", IEEE Xplore, November 2021, ISSN: 2473-2001 (**SCOPUS**)
34. Saravanakumar C, Kanaga Lakshmi S, Prakash M, Vijayakumar M and **Arun C**, "**An Efficient Ensemble Model for Forecasting Time Series Analysis of Crypto Currency Data Using Machine Learning**", IEEE Xplore, December 2021, ISSN: 2473-2001 (**SCOPUS**)
35. Shiny Irene D, Rene Beulaha J, Anitha K and **Kannan K**, "**An efficient COVID-19 Detection from CT images using Ensemble Support Vector Machine with Ludo game-based Swarm Optimisation** "Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization", January 2022, ISSN: 2168-1163 (**SCIE**)
36. **Dhivya K**, Ezhumalai P and **Arun C**, "**A proportional fair scheduling strategy using multi objective gradient-based African buffalo optimization algorithm for effective resource allocation and interference minimization**", International Journal of Communication Systems, January 2022, Vol.35, No:1, ISSN: 1074-5351 (**SCIE**)
37. Vinodhkumar N, Rajendrakumar M.G and **Muthumanickam S**, "**Performance Analysis of Gray to Binary Code Converter using GDI Techniques**", Lecture notes in Networks and Systems, Springer, January 2022, Vol.237, pp 419–429, ISSN: 2367-3389 (**SCOPUS**)
38. **Rajagopal R, Kannan K, Nimitha N, Gurumurthy J, Subatra R and Babu M**, "**Security Attacks on the Improved SMS4-BSK Encryption Transmission System**", IEEE Digital Library, January 2022, ISSN: 2473-2001 (**SCOPUS**)
39. Dr. Rajakumar S and **Dr. Josephin Shermila P**, "**Deep Convolutional Neural Networks for Multi-Modality Brain Image Classification**", NeuroQuantology, January 2022, Vol.20, No:5, 1303-5150 (**SCOPUS**)
40. **Arun C**, Priyenka S, Sagarika L and Sneha S, "**A Web-Based Application for Data Collection and Report Generation Using Django. In: Tuba**", Springer LNNS, January 2022, Vol.321, No:pp 519–527, ISBN 978-981-16-5986-7 (**SCOPUS**)
41. **Jai Ganesh Sekar**, Periyathambi Ezhumalai and **Arun Chokkalingam**, "**An Efficient Chaotic System based Hybrid Radiation Heat Transfer Sunflower Optimization**

- Algorithm for Securing Digital Image Transmission**", Concurrency and Computation Practice and Experience, February 2022, Vol.34, No:10, ISSN: 1532-0626 (SCIE)
42. **Nithiya C, Komathi BJ, Praveena NG and Prathima S**, "**Performance Analysis of Arithmetic Unit for IoT Applications**", IEEE Xplore, March 2022, ISSN: 2473-2001 (SCOPUS)
 43. Venkatraman S, **Komathi BJ, Swetha Reddy A and Nithiya C**, "**Design of a Single Layer Ku Band Reflectarray Antenna based on Hexagonal Unit Cell for Satellite Applications**". IEEE Xplore, March 2022, ISSN: 2473-2001 (SCOPUS)
 44. **N. G. Praveena, C. Nithiya, B. J. Komathi**, J. Pavithra and V. Kiruthika, "**Arduino based Customized Smart Glasses for the Blind People**", IEEE Xplore, March 2022, ISSN: 2473-2001 (SCOPUS)
 45. **Manimegalai L**, Hymlin Rose SG and Abinaya B, "**Enhanced Military Spying Sonar Radar System using Ultrasonic Sensor**", IEEE Xplore, March 2022, ISSN: 2473-2001 (SCOPUS)
 46. Sathies Kumar T, **Arun C** and Ezhumalai P, "**An approach for brain tumor detection using optimal feature selection and optimized deep belief network**", Elsevier, March 2022, Vol.73, ISSN: 0346-251X (SCOPUS)
 47. **Nimitha N**, Aarthi J, Bhuvaneshwari M, Brindha L., and Divya PL, "**Diagnosis and treatment recommendation engine for skin diseases using AI model VGG19**", AIP Conference Proceedings, April 2022, Vol.2405, No:1, ISSN: 1551-7616 (SCOPUS)
 48. **Shaik Hedayath Basha**, Sudharsanam, Sriram S, and Sai Charan Pasupuleti "**Glaucoma Screening using CNN Classification**", AIP Conference Proceedings, April 2022, Vol.2405, No:1, ISSN: 1551-7616 (SCOPUS)
 49. **Jai Ganesh Sekar, Arun C**, Abilash VM, Aravindan K, Barathiselvan K, and Bharath J, "**A modified chaotic image encryption scheme for color image using diagonal pixel confusion and diffusion method**", AIP Conference Proceedings, April 2022, Vol.2405, No:1, ISSN: 1551-7616 (SCOPUS)
 50. Ramachandran R, Gobalakrishnan N and **Chokkalingam A**, "**Detection of Turner syndrome using hand X-ray using anchor based links segmentation method**", Journal

of Engineering in Medicine, April 2022, Vol.Volume 236, No:Issue 4, ISSN: 09544119
(SCOPUS)

51. **Nimitha N**, Aarthi J, Bhuvaneshwari M, Brindha L, and Divya P.L, "**Supervised Chromosomal anomaly detection using VCG 16 CNN Model**", AIP Conference Proceedings, April 2022, Vol.2405, No:1, ISSN: 1551-7616 (SCOPUS)
52. **Sathyaraj P**, Rukmani Devi S, Swethareddy A, Manimegalai L, Kannan K and Babu M, "**A Dynamic Resource Allocation Protocol: Device to Device Communication For MANETs**", IEEE Xplore, April 2022, ISSN: 2473-2001 (SCOPUS)
53. **Swetha Reddy Anthay, Arun Chokkalingam, Komathi B. Jeyashanker** and Bharathiraja Natarajan, "**An analysis on micronutrient deficiency in plant leaf and soil using digital image processing**", Indonesian Journal of Electrical Engineering and Computer Science, April 2022, Vol.26, No:1, ISSN: 2502-4752 (SCOPUS)
54. **Babu M, Rajagopal R**, Narmadha V, Monikadevi A and Lakshmi Manasa S, "**Inter-Vehicle Communication with Improved Security**", IEEE Xplore, April 2022, ISSN: 2473-2001 (SCOPUS)
55. **V Kannagi**, M Rajkumar, I Chandra, K Sangeethalakshmi and V Mohanavel, "**Logical Mining Assisted Heart Disease Prediction Scheme in Association with Deep Learning Principles**", IEEE Xplore, April 2022, ISSN: 2473-2001 (SCOPUS)
56. **Dhivya K, Kannagi V**, Rajkumar M, Chandra I, Jai Ganesh S, "**An Effective Server-Side Attack Identification and Prevention Scheme using Logical Query Processing Strategy**", IEEE Xplore, April 2022, ISSN: 2473-2001 (SCOPUS)
57. **Jai Ganesh S. Dhivya K, Kannagi V**, Rajkumar M, and Suriya N, "**LoRa Assisted Intelligent Troop Tracking and Location Monitoring System over Defense Environment**", IEEE Xplore, April 2022, ISSN: 2473-2001 (SCOPUS)
58. **Sangeethalakshmi K, Jai Ganesh S, Dhivya K, Kannagi V**, and Rajkumar M, "**Internet of Things Assisted Wireless Environment Monitoring System using Smart Sensors Supportivity**", IEEE Xplore, April 2022, ISSN: 2473-2001 (SCOPUS)
59. Ngangbam Phalguni Singh, Rajendranath UNVP, Mohanavel V, Manimaran B and **Kannagi V**, "**A Novel Design of Internet of Things Assisted Agricultural Field**

Monitoring Mechanism using Logical Sensor Unit", IEEE Xplore, April 2022, ISSN: 2473-2001 (SCOPUS)

60. **Dhivya K, Arun C**, Vikraman R, Krishna US, Vishal, S, and Vijay V, "**Scheduling algorithms for device to device communication - A theoretical study**", AIP Conference Proceedings, May 2022, Vol.2405, No:1, ISSN: 1551-7616 (SCOPUS)
61. Nivetha A, Ramkumar S, **Rajalakshmi S**, Aanandha Saravanan K and Revathy M, "**Log System for Mass Crowd and Live Tracking Using Radio Frequency Based on IoT**", IEEE Xplore, May 2022, ISSN: 2473-2001 (SCOPUS)
62. Nithyakalyani K, Ramkumar S, **Rajalakshmi S** and Aanandha Saravanan K, "**Diagnosis of cardiovascular disorder by CT images using Machine learning technique**," IEEE Xplore, May 2022, ISSN: 2473-2001 (SCOPUS)
63. **Babu M**, Sathish Kumar G.A, **Gurumurthy J** and **Josephine Shermila P**, "**Perspective Chapter: The Importance of Pipeline in Modern Cryptosystem**", InTechOpen, May 2022, ISSN: 0192303X (SCIE)