

# Table of Contents

|                                                                                                                                                                                                           |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 1. An MRI Brain Image Segmentation and Tumor Detection using SOM-Clustering and PSVM Classifier<br><i>Rammurthy D and Mahesh P K</i>                                                                      | 1-9   |
| 2. An Enhanced Method for Measuring the IMT by Segmenting the Carotid Artery Region<br><i>Mamatha U</i>                                                                                                   | 10-14 |
| 3. Optimized Implementation of Energy Efficient Spherical Grid Routing Protocol to Monitor Fast Moving Object<br><i>Jai Prakash Prasad and Suresh Chandra Mohan</i>                                       | 15-19 |
| 4. FPGA based Hardback Conceptualization for Pothole Detection<br><i>Roopa B S and Manjunatha Prasad R</i>                                                                                                | 20-24 |
| 5. Design and Analysis of 60ghz Frequency Divider using MCML Logic<br><i>Rashmi S B and Siva S Yellampalli</i>                                                                                            | 25-30 |
| 6. Finger Vein Biometrics for High Security<br><i>Shruthi G and Sneha N Desai</i>                                                                                                                         | 31-35 |
| 7. Design of 16-Bit Low Power Carry Select Adder using D-Flip Flop<br><i>Sharanabasappa and Ravibabu P</i>                                                                                                | 36-42 |
| 8. A Review on Microstructural and Mechanical Characteristics of Stir Cast Aluminium Hybrid Metal Matrix Composites (AHMMCs)<br><i>Vishnu Vardhana Naidu, Varaprasad K C, Prahalada Rao K and Prakash</i> | 43-48 |
| 9. Integral Treatment for Heat and Mass Transfer by Natural Convection from a Horizontal Surface in a Radiating Darcian Fluid<br><i>Nasreen Bano and Singh B B</i>                                        | 49-61 |
| 10. Impact of Short-Term Practice of Yoga on Anxiety and Stress Control among Football Players<br><i>Ramesh K A</i>                                                                                       | 62-65 |
| 11. A Test of Physical and Judo Skill Components<br><i>Kumara Swamy and Sanjeev S Patil</i>                                                                                                               | 66-68 |
| 12. Smart Controllers for Switch Reluctance Motor<br><i>Babitha S and Jyoti Koujalagi</i>                                                                                                                 | 69-72 |

|                                                                                                                                                                                                                                          |         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 13. Review: Approach for Antenna Signature Reduction and Antenna Array Mutual Coupling Reduction<br><i>Amoolya M S</i>                                                                                                                   | 73-77   |
| 14. Implementation and Determining Low Power Analysis of Various Structures of SRAM Cell<br><i>Lakshmidevi T R</i>                                                                                                                       | 78-82   |
| 15. Chalcogenides for PCM Applications- An Overview<br><i>Shubha G N</i>                                                                                                                                                                 | 83-85   |
| 16. A Research Survey on Alzheimer's Disease<br><i>Suresha H S, Parthasarathi S S and Sheshadri H S</i>                                                                                                                                  | 86-93   |
| 17. A Review on FPGA Implementation of Distributed Canny Edge Detector<br><i>Chandrashekar N S and Nataraj K R</i>                                                                                                                       | 94-99   |
| 18. UPQC in Alleviation of PQ issues with Islanding and Reconnection for Micro-grid Applications<br><i>Sharmila R S, Sunitha N S, Aparna B R and Harshitha M R</i>                                                                       | 100-106 |
| 19. Electric Field Analysis of High Voltage Condenser Bushing<br><i>Anguraja R and Pradipkumar Dixit</i>                                                                                                                                 | 107-113 |
| 20. An Improved Quality of Service using M-DSR Protocol in MANETs<br><i>Siddlingappagouda Biradar and Prahlad Kulkarni</i>                                                                                                               | 114-120 |
| 21. Temperature Control and Data Acquisition Method for Factory using Labview<br><i>Birajdar yogesh and Rengaprabhu P</i>                                                                                                                | 121-124 |
| 22. Two Level Fingerprint Privacy using RSA<br><i>Bhagya P and Mahesh P K</i>                                                                                                                                                            | 125-130 |
| 23. Implementation of Gap Algorithm and Adaptive Arithmetic Coding for Loseless Image Processing<br><i>Dilip kumar V and Muruges K</i>                                                                                                   | 131-137 |
| 24. Fast Architectures for Arithmetic Operations via Vedic Sutras<br><i>Thippeswamy K H</i>                                                                                                                                              | 138-141 |
| 25. Optimal Sizing and Placement of Shunt Capacitor in Radial Distribution System using Cuckoo Search Algorithm<br><i>Radhika Priyadarshini, Prakash R and Rekha C M</i>                                                                 | 142-148 |
| 26. Variation in Charge Order Magnetic Properties upon Ga Doping in $\text{Pr}_{0.63}\text{Ca}_{0.37}\text{Mn}_{0.98}\text{Ga}_{0.02}\text{O}_3$ Bulk and Nano Manganites<br><i>Koushalya P R, Nandini Sudhir and Ashwini Chavan V M</i> | 149-154 |

|                                                                                                                                                                                                           |         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 27. Relationship of Health Related Physical Fitness, Skill Related Physical Fitness and Cognitive Variables with Academic Achievement of Adolescents<br><i>Madialagan S and Ramani D</i>                  | 155-158 |
| 28. Study on Metallized Polypropylene Film Capacitors and its Change in Dielectric Loss due to the Effect of End Connection Quality<br><i>ShivakumaraSwamy R, Prakash R, Ravi K N and Sunil kumar A V</i> | 159-164 |
| 29. A Survey of the Challenges and Opportunities towards Next Generation 5G Technology<br><i>Santosh M Nejakar, Benakop P G and Sharanabasappa R R</i>                                                    | 165-174 |
| 30. New Adaptive Retinex based Spinal Cord Medical Image Enhancement<br><i>Sreenivasa Setty, Srinath N K and Hanumantharaju M C</i>                                                                       | 175-179 |
| 31. Periodicals Content Literacy Through Library Extended Activities: A Case Study of DBIT Library<br><i>Somaraya B Tallolli and Mulla K R</i>                                                            | 180-184 |
| 32. Statistical Analysis and Performance Comparison in an Indoor Wireless Scenario<br><i>Nandakishor Sirdeshpande and Vishwanath Udupi</i>                                                                | 185-190 |
| 33. HOG based Contriving Individual Detection<br><i>Sowmya K S</i>                                                                                                                                        | 191-195 |
| 34. Line Follower Robot using LabVIEW<br><i>Ashwini and Nagraj Kyasa</i>                                                                                                                                  | 196-201 |
| 35. Automated Detection of Glaucoma using Average Thicknesses of RNFL Quadrants and ANN<br><i>Sheela N and Basavaraj L</i>                                                                                | 202-206 |
| 36. Power Quality Issues and its Mitigation by Unified Power Quality Conditioner<br><i>Sridhar J P and Prakash R</i>                                                                                      | 207-214 |
| 37. Trend Analysis to Forecast the Prevalence of Lung Cancer in Bengaluru<br><i>Manjula S Dalabanjan and Pratibha Agrawal</i>                                                                             | 215-220 |
| 38. Study of Chalcogenides for Sensor Applications<br><i>Tejaswini M L and Varunkumar A</i>                                                                                                               | 221-223 |
| 39. Design of 32 bit Low Power ALU Using Cadence<br><i>Mahadevi S Manur</i>                                                                                                                               | 224-230 |
| 40. Improved Scheme of ECC and as Intrusion Detector<br><i>Sangamkumar G H and Shreenivas P Gudi</i>                                                                                                      | 231-235 |

|                                                                                                                                         |         |
|-----------------------------------------------------------------------------------------------------------------------------------------|---------|
| 41. Optimization using Particle Swarm in WSN for Fault Tolerance<br><i>Krishna Reddy S V and Anil Kumar</i>                             | 236-240 |
| 42. Voiceprint Authentication System to Securely Verify and Protect Personal Identity<br><i>Shashi Ranjan and Mahesh P K</i>            | 241-243 |
| 43. A Literature Survey on Different Type of Energy Efficient Routing Protocol in Wireless Sensor Network<br><i>Rashmi K T</i>          | 244-249 |
| 44. Study of Hematoxylin and Eosin dye and it's Alternatives in Oral Cancer Detection<br><i>Rajashekhargouda C Patil and Mahesh P K</i> | 250-253 |
| 45. Internet of Things: Reflected on Web of Science<br><i>Wodeyar R S, Adrakatti A F and Mulla K R</i>                                  | 254-259 |
| 46. What is METS? How it is Useful in Organizing EResources<br><i>Bharati and Padmavati</i>                                             | 260-264 |
| 47. Smart Agriculture System using IoT<br><i>Kishor Kumar R, Manjunath B Kajjidoni and Pradeep Kumar M S</i>                            | 265-269 |