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## **Publications**

- 1. Preparation of Chemically Modified Porous Carbon Networks Derived from Citrus Sinensis Flavedos as Electrode Material for Supercapacitor, Malathi Devendran, Senthil Kumar Kandasamy, Shanmugam Palanisamy, Sangavi Selvaraj, Ragavi Vetrivel, Roobak Selvarajan, **Murugesan** Govindasamy, Kannan Kandasamy International Journal of ELECTROCHEMICAL SCIENCE, Publisher: Int. J. Electrochem. Volume-15 March (2020) PP-4379 4387, doi: 10.20964/2020.05.08
- 2. A Novel Implementation of combined systolic and folded architectures for adaptive filters in FPGA, S.Gomathi, **G.Murugesan**, S.Sasikala, Microprocessors and Microsystems, ElsevierDoi.org/10.1016/j/micro.2020.103018, February 2020. S
- 3. Discovery of Asteroids, Dr.Murugesan G, Dr. Maheswaran S, Selvapriya S, Sugunthan V, Vinith S, Vivek b, Satheesh.S, Jour of Advanced Research in Dynamical & Control Systems, Vol.no.12/ Issue no.1/pp: 301-307, February & 2020. Scopus
- 4. Design of Flexible Antenna for Wearable Applications, **Dr.Murugesan** G, Vijayalakshmi J, Dr. Dinesh V, Gnanasowndari B, Deepana A, Balaji S International Journal of Innovative Technology and Exploring Engineering (IJITEE), Vol.no.9/Issue no.4/pp: 2919-2921, February & 2020.
- 5. Performance Analysis of Karatsuba Vedic Multiplier and Computation Sharing Multiplier in the Adaptive Filter Design, Gomathi S, Dr. Sasikala S, **Dr.Murugesan** G, International Journal of Innovative Technology and Exploring Engineering (IJITEE), Vol.no.9/Issue no.2/pp: 4425-4429, December 2019
- 6. Implementation of Efficient Architecture of Fine Grain Pipelined Lifting Scheme Based Two Dimensional Discrete Wavelet Transform, Anbumani V, Dr. Geetha V, **Dr. Murugesan** G, International Journal of Innovative Technology and Exploring Engineering (IJITEE), Vol.no.8/ Issue no.12/pp: 225-229, October & 2019. Scopus.
- 7. Advanced Highly Reliable and Accurate Automated Billing System Using Spread Spectrum Technique, Pragash N. Nagaiyan, **Dr. Murugesan** G, International Journal of Applied Engineering Research, Vol.no.14/ Issue no.21/ pp: 4027-4029, October & 2019.
- 8. A miniaturized planar antenna with defective ground structure for UWB applications, Dinesh Venkatachalam, Murugesan Govindasamy, IEICE Electronics Express, Vol.no:14/Issue No:14/pp:1-6/July 2019. Scopus., WoS.
- 9. A Miniaturized High-Gain (MHG) Ultra-Wideband Unidirectional Monopole Antenna for UWB Applications Authors J Vijayalakshmi, **G Murugesan** Publication date 2019 /3/12 Journal Journal of Circuits, Systems and Computers Pages 1950230 Publisher World Scientific Publishing Company. SCI, Scopus., WoS.

- 10. IoT Based online transformer Maintenance Systems, GM, KST, SSG, Indian Journal of Research V-9, Issue-1, PP-374-375, Jan 2019.
- 11. A CPW-Fed Hexagonal Antenna With Fractal Elements For UWB Applications Authors V Dinesh, **G Murugesan** Publication date 2019 Journal Appl. Math Volume 13 Issue 1 Pages 73 79 Scopus.
- 12. Improved Bandwidth and Gain in Ultra-wideband Staircase Antipodal Bowtie Antenna with Rounded Edge for Microwave Imaging Applications J Vijayalakshmi, **G Murugesan** 2018 Journal Appl. Math Volume 12 Issue 6 Pages 1197-1202. Scopus.
- 13. Studies on magnetoelectric coupling in lead-free [(0.5) BCT-(0.5) BZT]-NiFe2O4 laminated composites at low and EMR frequencies, Sowmya, N. Shara; Srinivas, A.; Saravanan, P.; Reddy, K. Venu Gopal; Kamat, S. V.; Praveen, J. Paul; Das, Dibakar; **Murugesan, G.**; Kumar, S. Dinesh; Subramanian, V., Published in Journal of Alloys and Compounds in April, 2018 DOI: 10.1016/J.JALLCOM.2018.01.402, WoS.
- 14. Image Segmentation Authors Kumaravel Subramaniam Tamilselvan, Govindasamy **Murugesan** Publication date 2018/7/4 Book Medical and Biological Image Analysis Publisher IntechOpen
- 15. Thermal Aware Test Data Compression using Code Based Compression Technique, A.Arulmurugan, **Dr.G.Murugesan**, V.Tharani, International Journal of Pure and Applied Mathematics, Academic Publications, April 2018, 118, 21D,3679-3680.
- 16. Android based vehicle speed control system in critical zones using GPS Technology, Dr.K.S.Tamilselvan, **Dr.G.Murugesan**, Mr.S.Sudhakar International Journal of Advanced Research in Electronics and Communication Engineering , Vol.no.7/issue no.6/pp 639-644,June 2018.
- 17. Genetic Algorithm-based thermal uniformity-aware X-filling to reduce peak temperature during testing, Mr.A.Arulmurugan, Mr.M.Govindasamy, International Journal, Measurement and Control, DOI:10.1177/0020294018784969, 2018. Scopus.
- 18. Detection of retinal area from scanning laser ophthalmoscope images (SLO) using deep neural network Authors V Ashok, **G Murugesan** Publication date 2017 Journal International Journal of Biomedical Engineering and Technology Volume 23 Issue 2-4 Pages 303-314 Publisher Inderscience Publishers (IEL) SCI., Scopus.
- 19. Efficient digit serial architecture for sign based least mean square adaptive filter for denoising of artefacts in ECG signals Authors S Sasikala, **G Murugesan** Publication date 2017 Journal International Journal of Biomedical Engineering and Technology Volume 23 Issue 2-4 Pages 335-344. SCI., Scopus., WoS.
- 20. High performance VLSI architecture to improve contrast in digital mammographies using discrete wavelet transform Authors V Geetha, **G Murugesan** Publication date 2017 /11/16 Journal Biomedical Research (0970-938X) Volume 28. Scopus., WoS.
- 21. Detection of retinal area from scanning laser ophthalmoscope images (SLO) using deep neural network Authors V Ashok **G Murugesan** Publication date 2017 Journal International journal of Biomedical Engineering and Technology Volume 23 Issue 4 Pages 303-314, WoS.

- 22. Performance analysis of Horner's rule-based canonical signed digit lifting architecture for twodimensional discrete wavelet transform Authors V Geetha, **G Murugesan** Publication date 2017 Journal International Journal of Biomedical Engineering and Technology Volume 23 Issue 2-4 Pages 123-136. SCI., Scopus., WoS.
- 23. Energy Efficient and Balanced Routing For Wireless Sensor Networks, **Dr.G.Murugesan**, Menaka, International Journal of Printing, Packing and Allied Sciences, 2017, 5,1,492-505.
- 24. FPGA implementation of gate level modified adaptive filter architecture for noise cancellation application, Gomathi S & **Murugesan.G**, Inderscience, International Journal of Manufacturing Technology and Management, 2017, DOI- 10.1504/IJMTM.2017.10011891
- 25. Embedded Based Semi Automatic Money denomination System, Dr.K.S.Tamilselvan and **Dr.G.Murugesan**, International Journal of Advanced Research in Electronics and Communication Engineering (IJARECE) Volume 6, Issue 11, November 2017
- 26. Coplanar waveguide fed hexagonal shaped slot antenna for breast tumor detection Authors Dinesh **G Murugesan** Publication date 2016 Journal Journal of Advances in Chemistry Volume 12 Issue 22 Pages 5392-5397.
- 27. UWB slotted circular disc monopole antenna with inverted U shaped defected ground plane for brain cancer detection Authors J.Vijayalakshmi **Dr.G.Murugesan** Publication date 2016 Journal Journal of Advances in Chemistry Volume 12 Issue 22 Pages 5408-5414.
- 28. Encounter Based Clustering with Cuckoo Search for Ad Hoc Communication in Wireless Health Informatics Authors RS Latha, **G Murugesan** Publication date 2016 /12/1 Journal Journal of Medical Imaging and Health Informatics Volume 6 Issue 8 Pages 1983-1989. SCI., Scopus., WoS.
- 29. Multi-Metric Clustering in Mobile Ad-Hoc Networks using Firefly Optimization Algorithm Authors RS Latha **G Murugesan** Publication date 2016/11 Journal Asian Journal of Research in Social Sciences and Humanities Volume 6 Issue 11 Pages 630-641.
- 30. Smart Drinking Water Quality Maintenance System Authors KS Tamilselvan, **G Murugesan** Publication date 2016/10/5 Journal International Educational Scientific Research Journal Volume 2 Issue 10.
- 31. Lifting based 2d-Discrete Wavelet Transform for Image Compression based on Residue Number System Authors V.Geetha **Dr.G.Murugesan** Publication date 2016/10 Journal Asian Journal of Research in Social Sciences and Humanities Volume 6 Issue 10 Pages 700-712.
- 32. Energy Efficient and Collaborative Communication Protocol for Wireless Sensor Networks Authors SR Menaka, **G Murugesan** Publication date 2016 Journal Asian Journal of Research in Social Sciences and Humanities Volume 6 Issue 8 Pages 883-890 Publisher Asian Research Consortium
- 33. FPGA Implementation of Adaptive Filters using Partial Update Algorithm Authors S Gomathi, **G Murugesan**, S Sasikala Publication date 2016 Journal Asian Journal of Research in Social Sciences and Humanities Volume 6 Issue 10 Pages 325-339
- 34. Performance Analysis of Robust Recursive Least Square and its Lattice Structure for Noise Cancellation in ECG Signals Authors S Gomathi, **G Murugesan**, S Sasikala Publication date 2016

- Journal Asian Journal of Research in Social Sciences and Humanities Volume 6 Issue 10 Pages 340-351.
- 35. A Fuzzy-Genetic Based Approach for Improving OLSR Routing Protocol in Mobile Adhoc Networks Authors RS Latha **G Murugesan** Publication date 2016 Journal Middle-East Journal of Scientific Research (Techniques and Algorithms in Emerging Technologies Pages 425-432
- 36. FPGA Implementation of Combination of Error Normalised Sign LMS and Zero AttractorENSLMS Algorithms for Denoising ECG Signals Authors S.Gomathi **Dr.G.Murugesan**, S.Sasikala Publication date 2016 Journal Asian Journal of Research in Social Sciences and Humanities Volume 6 Issue 9 Pages 683-697
- 37. Embedded System Based Smart Conveyer Belt Security System for Textile and Dyeing Industries Authors Dr. V. Ashok **Dr. G. Murugesan**, Dr. K. S. Tamilselvan Publication date 2016 Journal International Journal of Advanced Research in Computer Science and Software Engineering Volume 6 Issue 1 Pages 48 to 152
- 38. Development of Multi-model medical image fusion based CAD system for brain tumor identification, **Dr.G.Murugesan**, K.S.Tamilselvan, International Journal of Printing & Allied Sciences, Vol.4, No.5 Dec 2016
- 39. **Dr.G.Murugesan**, R.S.Latha, A Fuzzy-Genetic Based Approach for Improving OLSR Routing Protocol in Mobile Adhoc Networks, Middle-East Journal of Scientific Research (Techniques and Algorithms in Emerging Technologies), 425-432, 2016
- 40. A Novel Image Segmentation Algorithm for Clinical CT Images Using Wavelet Transform, Curvelet Transform and Multiple Kernel FCM Authors KS Tamilselvan, **G Murugesan**, K Kandasamy Publication date 2015 Journal Applied mathematical sciences Volume 9 Issue 48 Pages 2351-2362. Scopus.
- 41. Multimodality medical Image Fusion based on Neuro Fuzzy and Support Vector Machine, **Dr.G.Murugesan**, K.S.Tamilselvan, International Journal of Chemical and Pharmaceutical Sciences, 2015. Scopus.
- 42. Integrated wideband/narrowband DMS antennafor cognitive radio applications, Srithar A, Kanmani Ruby, and **Murugesan G**, International Journal of Applied Engineering Research PP-15542-15546, V-10, 1.1.2015. Scopus.