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Wireless Communication, Image Processing, VLSI

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List of Publications

1.	Performance analysis of Glioma brain tumor detection and segmentation using image registration technique A Selvapandian, R Athilingam, P Sivakumar Materials Today: Proceedings	2020
2.	P2CTS-3D IC: An Efficient Placement Aware Partitioning and Clock Tree Synthesis in 3D-integrated Circuits RKR Nair, S Pothiraj, R Nagarajan Applied Science and Engineering Progress 13 (4), 377-393	2020
3.	A saboteur and mutant based built-in self-test and counting threshold-based built-in self repairing mechanism for memories K Gopalan, S Pothiraj Journal of Ambient Intelligence and Humanized Computing, 1-13	2020
4.	A novel optimization approach for partitioning-based place and route in 3D integrated circuits RK Radhakrishnan Nair, S Pothiraj, TR Radhakrishnan Nair The International Journal of Electrical Engineering & Education ...	2020
5.	Optimal Deep Neural Network model based multimodality fused medical image classification VS Parvathy, S Pothiraj, J Sampson Physical Communication, 101119	2020
6.	A novel approach in multimodality medical image fusion using optimal shearlet and deep learning V Subbiah Parvathy, S Pothiraj, J Sampson International Journal of Imaging Systems and Technology	2020
7.	Analysis of Automatic Generation Control for Three Area Renewable Energy Interconnected Power System G Soorya Priya, P Sivakumar Journal of Computational and Theoretical Nanoscience 17 (4), 1976-1984	2020
8.	Memetic algorithm based on hill climbing algorithm for IC partitioning KJ Prakash, P Sivakumar	2020
9.	Design of modified March-C algorithm and built-in self-test architecture for memories G Karthy, P Sivakumar	2020
10.	Implementation of differential evolution algorithm to perform image fusion for identifying brain tumor	2020

	P Sivakumar, SP Velmurugan, J Sampson	
11.	Heuristic and meta-heuristic algorithms for solving medium and large scale sized cellular manufacturing system NP-hard problems: A comprehensive review V Kesavan, R Kamalakannan, R Sudhakarapandian, P Sivakumar Materials Today: Proceedings 21, 66-72	2020
12.	Optimization of thermal aware multilevel routing for 3D IC P Sivakumar, K Pandiaraj, K JeyaPrakash Analog Integrated Circuits and Signal Processing, 1-12	2019
13.	Slew and Skew Analysis for Low Power Clock Tree Synthesis Using Clock Distribution Networks R Rajalakshmi, SM Ramesh, P Sivakumar Sensor Letters 17 (8), 641-653	2019
14.	Multi-modality medical image fusion using hybridization of binary crow search optimization VS Parvathy, S Pothiraj Health Care Management Science, 1-9	2019
15.	Digital Pedagogy for Skill Developemnt of Engineering Faculty to Solve the Grand Challenges R Nair, R Krishna, P Ramrao, P Pothiraj Proceedings of International Conference on Digital Pedagogies (ICDP)	2019
16.	Design of Adaptive Frequency Reconfigurable Antenna for MIMO Applications P Manikandan, P Sivakumar, C Swedheetha Soft Computing in Data Analytics, 203-213	2019
17.	Performance Analysis of Electrocardiogram Data Extraction and Data Compression in Healthcare Application—A Review S Velmurugan, AM Basha, P Sivakumar, M Vijayakumar Sensor Letters 16 (12), 901-910	2018
18.	ESNN-Hybrid Approach Analysis for Text Categorization Using Intuitive Classifiers K Sridharan, P Sivakumar Journal of Computational and Theoretical Nanoscience 15 (3), 811-822	2018
19.	Convex Optimized Lagrange Multiplier Based Algebraic Congestion Likelihood for Improved TCP Performance in MANET P Sivakumar, A MahabubBasha Journal of Computational and Theoretical Nanoscience 15 (3), 908-918	2018
20.	A systematic review on techniques of feature selection and classification for text mining K Sridharan, P Sivakumar International Journal of Business Information Systems 28 (4), 504-518	2018
21.	Multimodality image fusion using centre-based genetic algorithm and fuzzy logic SP Velmurugan, P Sivakumar, MP Rajasekaran International Journal of Biomedical Engineering and Technology 28 (4), 322-348	2018

22.	Comparison on 6T, 5T and 4T SRAM cell using 22nm technology R Rollini, J Sampson, P Sivakumar 2017 IEEE International Conference on Electrical, Instrumentation and ...	2017
23.	Fault tolerant improvement mechanism for 3d memories using built-in self repair scheme P Sivakumar, G Karthy, KV Bharani 2017 IEEE International Conference on Electrical, Instrumentation and ...	2017
24.	Reduction of temperature rise in 3D IC routing K Pandiaraj, P Sivakumar, N Geetharamani 2017 IEEE international conference on electrical, instrumentation and ...	2017
25.	Minimization of wirelength in 3d IC routing by using differential evolution algorithm K Pandiaraj, P Sivakumar, R Sridevi 2017 IEEE international conference on electrical, instrumentation and ...	2017
26.	Enhancing the retrieval performance in content based image retrieval using meta-heuristic approach S Umamaheswaran, NS Kumar, K Ganesh, P Sivakumar International Journal of Business Information Systems 26 (2), 220-235	2017
27.	A Prospective Analysis of Adverse Drug Reaction in A Tertiary Care Hospital S Ramesh, C Prashant, C KrishnaPrabha, KPJ Ganesh, C Manikandhan, ... Value in Health 19 (7), A824	2016
28.	comparative Evaluation of Safety, Efficacy and Cognitive Profile of Amisulpride and Olanzapine in Schizophrenia Patients-A Prospective Study S Ramesh, P Sivakumar, C Prashant, M Sivasankar, C Manikandhan, ... Value in Health 19 (7), A840	2016
29.	Investigation and Design of a Novel Multiband Fractal Antenna for ISM and Wireless Communication MP Manikandan, P Sivakumar International Journal of Advanced Information Science and Technology 4 (5)	2015