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Wireless Communication, VLSI, FPGA Application, Satellite Communication

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List of Publications

1.	New type of extension of the level operators $P\alpha$, β and $Q\alpha$, β on intuitionistic fuzzy sets S Rajaram, R Nagalingam Materials Today: Proceedings	2020
2.	High-Speed Inversion Using Units M Kalaiarasi, VR Venkatasubramani, AC Grace, S Rajaram Advances in Communication Systems and Networks, 591-597	2020
3.	Machine Learning Optimization Techniques for 3D IC Physical Design J Shanthi, S Rajaram Handbook of Research on Emerging Trends and Applications of Machine Learning ...	2020
4.	FPGA IMPLEMENTATION OF FBMC BASEBAND MODULATOR FOR 5G WIRELESS COMMUNICATION R Keerthana, S Rajaram 2019 2nd International Conference on Intelligent Computing, Instrumentation ...	2019
5.	Design and optimisation of feedforward noise cancelling complementary metal oxide semiconductor LNA for 2.4 GHz WLAN applications AA Roobert, DGN Rani, S Rajaram IET Circuits, Devices & Systems 13 (6), 908-919	2019
6.	VLSI Design and Test: 22nd International Symposium, VDAT 2018, Madurai, India, June 28-30, 2018, Revised Selected Papers S Rajaram, NB Balamurugan, DGN Rani, V Singh Springer	2019
7.	An efficient categorization of liver cirrhosis using convolution neural networks for health informatics R Suganya, S Rajaram Cluster Computing 22 (1), 47-56	2019
8.	Enhancement of solubility and dissolution rate of poorly water-soluble Etravirine by solid dispersion technique for antiretroviral therapy S Rajaram, S Sivaranjani, S Soundammal, S Sowmitha, B Sowmiya International Journal of Research in Pharmaceutical Sciences 10 (1), 1-7	2019
9.	Single server feedback Markovian queueing system with impatient customers and two types of vacations S Marichamy, S Rajaram, K Kalidass International Journal of Management, IT and Engineering 9 (2), 22-33	2019

10.	Intuitionistic Fuzzy Operator $A_{(m,n)}$ and its Extensions R Nagalingam, S Rajaram International Journal of Mathematical Combinatorics, 144-154	2018
11.	Layout Design of X-Band Low Noise Amplifier for Radar Applications I Stefigraf, S Rajaram International Symposium on VLSI Design and Test, 140-156	2018
12.	An Effective Prediction System for Time Series Data Using Pattern Matching Algorithms. S Sridevi, S Parthasarathy, S Rajaram International Journal of Industrial Engineering 25 (2)	2018
13.	Design of CMOS based LNA for 5G Wireless Applications AA Roobert, DGN Rani, M Divya, S Rajaram Proceedings of the 6th International Conference on Communications and ...	2018
14.	Big data in medical image processing R Suganya, S Rajaram, AS Abdullah CRC Press	2018
15.	FPGA implementation of filtering algorithm for multispectral satellite image PS Shakila, VV Thyagarajan, S Rajaram 2018 2nd International Conference on Inventive Systems and Control (ICISC ...	2018
16.	Texture Feature Extraction for Multispectral Satellite Image using Verilog HDL PS SHAKILA, VV THYAGARAJAN, S RAJARAM	2018
17.	Advanced intuitionistic fuzzy operators and its properties R Nagalingam, S Rajaram, V Vamitha International Journal of Management, IT and Engineering 8 (10), 210-221	2018
18.	Analysis and optimization of Floorplanning algorithms for VLSI physical design S Rajaram Chennai	2018
19.	Design and analysis of low noise amplifier for satellite transponder I Stefigraf, S Rajaram 2017 IEEE International Conference on Circuits and Systems (ICCS), 280-284	2017
20.	Design and analysis of high gain CMOS transconductance amplifier for low frequency application B Kowsalya, S Rajaram 2017 IEEE International Conference on Circuits and Systems (ICCS), 285-290	2017
21.	Embedded visual cryptography for secure transmission of bank cheque S Rajaram, R Suganya 2017 IEEE International Conference on Circuits and Systems (ICCS), 452-458	2017
22.	Hardware Implementation of Novel Symbol Detection Algorithm for 4G LTE Downlink Receiver K Kalyani, S Rajaram	2017

	Wireless Personal Communications 96 (1), 977-988	
23.	The Standard E-Learning Techniques On VLSI Design K Kalyani, S Rajaram The Online Journal Of Distance Education, Contents 5 (3)	2017
24.	FPGA implementation of viterbi decoder for software defined radio applications I Swathi, S Rajaram 2017 International Conference on Wireless Communications, Signal Processing ...	2017
25.	International Journal of Mathematical Archive-8 (2), 2017, 69-79 Available online through www. ijma. info ISSN 2229–5046 B POTHIRAJ, S RAJARAM	2017
26.	Prediction of heart diseases using hybrid feature selection and modified Laplacian pyramid non-linear diffusion with soft computing methods R Suganya, S Rajaram, AS Abdullah, V Rajendran International Journal of Biomedical Engineering and Technology 25 (1), 30-43	2017
27.	New Intuitionistic Fuzzy Operator A (m , n) and an Application on Decision Making R Nagalingam, S Rajaram Advances in Fuzzy Mathematics 12 (4), 881-895	2017
28.	Interval-valued intuitionistic fuzzy assignment problem with replacement based on fuzzy aggregation B Pothiraj, S Rajaram International Conference on Recent Trends in Engineering Science, Humanities ...	2017
29.	Data Classification: Its Techniques and Big data AS Abdullah, R Suganya, S Selvakumar, S Rajaram Handbook of Research on Advanced Data Mining Techniques and Applications for ...	2017
30.	FPGA Implementation of Cryptographic Algorithm for Internet of Things (IoT) S Rajaram, M Sarojini Journal of Web Engineering & Technology 3 (2), 28-34	2016
31.	Design and implementation of Configurable Logic Block of an FPGA using quantum dot cellular automata DGN Rani, C Mathumitha, R Priyadharshini, S Rajaram 2016 3rd International Conference on Devices, Circuits and Systems (ICDCS ...	2016
32.	Design of static random access memory using QCA technology DGN Rani, M Saranya, T Sivashankari, N Meenakshi, R Meena, ... 2016 3rd International Conference on Devices, Circuits and Systems (ICDCS ...	2016
33.	Serial flash XIP with caching mechanism for fast program execution in embedded systems S Vadlamani, S Rajaram, Y Wang, L Chen	2016

	US Patent 9,262,318	
34.	A Novel MAC Scheduling Algorithm to Regulate Multimedia Traffic with Promising QoS R Deepalakshmi, S Rajaram International Journal of Communications 1	2016
35.	A survey on forecasting of time series data G Mahalakshmi, S Sridevi, S Rajaram 2016 International Conference on Computing Technologies and Intelligent Data ...	2016
36.	Implementation of Approximate Matrix Inversion for Multi-User Cellular Systems K Kalyani, S Rajaram Asian Journal of Research in Social Sciences and Humanities 6 (11), 600-609	2016
37.	Analysis and Design Of VLSI Floorplanning Algorithms For Nano-Circuits GN Rani.D, R S International Journal of Advanced Engineering Technology 7 (1), 527-532	2016
38.	A Novel Feature Selection method for Predicting Heart Diseases with Data mining Techniques R Suganya, R S, S Abdullh.A, Rajendran. Asian Journal of Information Technology (AJIT) 15 (8), 1314-1321	2016
39.	Dental image retrieval using fused local binary pattern & scale invariant feature transform R Suganya, S Rajaram, S Vishalini, R Meena, TS Kumar Advances in Signal Processing and Intelligent Recognition Systems, 215-224	2016
40.	A novel differential evolution based optimization algorithm for Non-Sliceable VLSI floorplanning D Gracia Nirmala Rani, S Rajaram Iranian Journal of Science and Technology (Sciences) 39 (3.1), 375-382	2015
41.	A multiset based forecasting model for fuzzy time series V Vamitha, S Rajaram Haceteppe Journal of Mathematics and Statistics 44 (4), 965-973	2015
42.	FPGA implementation of fully parallel distributed arithmetic based DCT architecture K Kalyani, PP Omnath, K Priyadarshani, S Srinath, S Rajaram 2015 International Conference on Innovations in Information, Embedded and ...	2015
43.	An improvised hierarchical black hole detection algorithm in Wireless Sensor Networks AB Karuppiyah, J Dalfiah, K Yuvashri, S Rajaram International confrence on innovation information in computing technologies, 1-7	2015
44.	ASIC Implementation of Fast and Area Efficient Numerically Controlled Oscillator Based on CORDIC C thambi M, B dharan N, R S International Journal of Applied Engineering Research 10 (2), 1365-1369	2015
45.	A novel QR factorization approach to Multi-robot localization and mapping	2015

	K Kalyani, S Rajaram, SNV Saipratap International Journal of Applied Engineering Research 10 (2), 1356-1360	
46.	Testing of Reversible Logic Circuits using automatic Test pattern generation techniques DGN Rani, A Marina, V Dharshana, S Rajaram International journal of Applied Engineering Research 27 (4), 553 – 558	2015
47.	FPGA Implementation of Novel Discrete Phase-Locked Loop M Chinnathambi, S Rajaram Intelligent Computing and Applications, 223-229	2015
48.	A High-performance Elliptic Curve Cryptographic Processor for FPGA Platform VR Venkatasubramani, N Premkumar, K Vignesh, S Rajaram Intelligent Computing and Applications, 307-312	2015
49.	Mining undemanding and intricate patterns with periodicity in time series databases S Sridevi, P Saranya, S Rajaram Artificial Intelligence and Evolutionary Algorithms in Engineering Systems ...	2015
50.	Automated secured handoff delay reduction by minimising authentication cost in mobile WiMAX network entry process B Sridevi, S Rajaram International Journal of Information Technology and Management 14 (1), 43-59	2015