Name	Dr.P.Sivakumar
Designation	Professor
Department	ECE
Name of the org/inst.	Kalasalingam Academy of Research and Education.
Place	Krishnankoil,Virudhunagar district
Pincode	626126
Whether affiliated to anna univ or not	No
Mobile	9865661535
e-mail	siva@klu.ac.in
Area of specialization	VLSI, AI, ML , Signal Processing, Optimization techniques

Journal Publication for the last five years: (Scopus Indexed)

S.No	Title	Journal Name	Year
1	A Novel Approach in Multimodality Medical Image Fusion Using Optimal Shearlet and Deep Learning	International Journal of Imaging Systems and Technology	2020
2	Multi-modality medical image fusion using hybridization of binary crow search optimization	Health Care Management Science	2019
3	Optimal Deep Neural Network model based multimodality fused medical image classification	Physical Communication	2020
4	Multimodality image fusion using centre-based genetic algorithm and fuzzy logic	International Journal of Biomedical Engineering and Technology	2018
5	CLASSIFICATION OF BRAIN TUMOR USING MULTIMODAL FUSED IMAGES AND PNN	International Journal of Pure and Applied Mathematics	2017
6	DESIGN OF MODIFIED MARCH-C ALGORITHM	3C Tecnología	2020

S.No	Title	Journal Name	Year
	AND		
7	Implementation of differential evolution algorithm to perform image fusion for identifying brain tumor	3C Tecnología	2020
8	Investigation and Design of a Novel Multiband Fractal Antenna for ISM and Wireless Communication	International Journal of Advanced Information Science and Technology (IJAIST)	2015
9	Smart Glass for Visually Challenged Person's	International Journal of Innovative Research in Management, Engineering and Technology	2018
10	Memetic algorithm based on hill climbing algorithm for IC partitioning	Publicadoen 3C Tecnología. Special Issue – March 2020	2020
11	Optimization of thermal aware multilevel routing for 3D IC	Analog Integrated Circuits and Signal Processing	2020
12	Optimization of Pyramid Horn Antenna using Genetic Algorithm and Evolution strategy	IEEE Explore	2017
13	Fault Tolerant Improvement Mechanism for 3D Memories Using Built-In Self Repair Scheme	2017 IEEE International Conference on Electrical, Instrumentation and Communication Engineering (ICEICE)	2017
14	Minimizationof Wirelength in 3d IC Routing By Using Differential Evolution Algorithm	Proceedings - 2017 IEEE International Conference on Electrical, Instrumentation and Communication Engineering, ICEICE 2017	2017
15	Reduction of Temperature Rise in 3D IC Routing	2017 IEEE International Conference on Electrical, Instrumentation and Communication Engineering (ICEICE)	2017
16	Optimization of Wire-Length and Block ReArrangements for a Modern IC Placement	2017 IEEE INTERNATIONAL CONFERENCE ON INTELLIGENT TECHNIQUES IN CONTROL,OPTIMIZATION AND	2017

S.No	Title	Journal Name	Year
	Using Evolutionary Techniques	SIGNAL PROCESSING	
17	Analysis of GAA SNTFT with Different Dielectric Materials	IEEE Xplore	2020
18	Comparison on 6T, 5T and 4T SRAM Cell using 22nm technology	IEEE Xplore	2017
19	Design of patch antenna of frequency 2.483GHz for Medical Applications	International Journal of Pure and Applied Mathematics	

International Conference Publication (IEEE Explorer, Scopus Indexed)

S.No	Title	Conference Name
1	Minimizationof wirelength in 3d IC routing by using differential evolution algorithm	2017 IEEE International Conference on Electrical, Instrumentation and Communication Engineering (ICEICE)
2	Reduction of temperature rise in 3D IC routing	2017 IEEE International Conference on Electrical, Instrumentation and Communication Engineering (ICEICE)
3	Optimization of wire-length and block rearrangements for a modern IC placement using evolutionary techniques	2017 IEEE International Conference on Intelligent Techniques in Control, Optimization and Signal Processing (INCOS)
4	Dual band, Dual Polarized Frequency Reconfigurable Antenna for SATCOM Application	Antenna Test & Measurement Society (ATMS India-16)
5	Study of Reconfigurable Antenna	5 th International Conference on Science, Technology & Management (ICSTM-2017)
6	DIGITAL PEDAGOGY FOR SKILL DEVELOPEMNT OF ENGINEERING FACULTY TO	ICDP 2019: INTERNATIONAL CONFERENCE ON DIGITAL PEDAGOGIES

S.No	Title	Conference Name
	SOLVE THE GRAND CHALLENGE	
7	Reduction of area and power in input vector monitoring Concurrent BIST architecture	International Conference on Electronics and communication Systems (ICECS - 2016)
8	AN EFFICIENT ALGORITHM AND ARCHITECTURE FOR BUILT-IN SELF REPAIR (BISR) SCHEME	International Conference on Emerging Trends in Engineering Research ICETER - 2017
9	PERFORMANCE IMPROVEMENT OF NEW STRATEGY FOR MEMORY BIST	National Conference On VLSI And Signal Processing (NCVSP'16)
10	Thermal and congestion aware algorithm for 3D integrated circuits	International conference on Sustainable Development
11	A study on various algorithms for global routing in VLSI	international conference on sustainable development
12	Calculation Of Wirelength In 3d Ic Routing By Using Differential Evolution Algorithm	international conference on Engineering and Technology(ICET)
13	Thermal Aware Routing In 3d Ic Using Genetic Algorithm	international conference on Engineering and Technology(ICET)
14	WATER TERMINATOR IN BATHROOM FOR BLIND PEOPLE	NATIONAL CONFERENCE ON VLSI, OPTICAL COMMUNICATION, IMAGE PROCESSING, COMMUNICATION AND EMBEDDED SYSTEMS
15	THERMAL MODEL IN PHYSICAL DESIGN OF 3D IC	NATIONAL CONFERENCE ON VLSI AND SIGNAL PROCESING
16	PARTITIONING OF IC BASED ON FIREFLY ALGORITHM	2016 International Conference on Engineering and Technology
17	Improving Engineering Education Through Outcomes Based Assessment: A Case Study	2016 IEEE 4th International Conference on MOOCs, Innovation and Technology in Education
18	Design a Cloud Architecture using SDN Integration with Open Stack	International conference on emerging trends in engineering, science and sustainable tecnology

S.No	Title	Conference Name
19	Novel Structure and Design of Multi Functional Reconfigurable antenna for wireless Applications	International Conference on Emerging Trends in Engineering Research
20	DRONE BASED MEDICAL FACILITY	2nd National Conference on Recent Innovation in Engineering, Science, Humanities and Management
21	White space Allocation and wirelength Aware for a standard cell IC placement	International conference on Advanced Computing & Communication systems
22	WIRELENGTH AND AREA REDUCTION OF ISPD98 BENCHMARK USING PARALLEL GENETIC ALGORITHM IN MODERN VLSI PLACEMENT	VLSI Computation, Networking Drives,Image Processing and system Design, Mar-26.
23	MODERN VLSI IC CHIP PLACEMENT	National Conference in Intelligent Computing Communication & Automation (NCICCA-2015),Apr-7
24	Simulation of combined S BOX and Inverse S BOX in AES	international conference on sustainable development
25	COMBINATORIAL OPTIMIZATION OF 3D IC GLOBAL ROUTING BASED ON A THERMAL AND CONGESTION AWARE ALGORITHM	International Conference on Modeling and Simulation (ICMS'2015)
26	Aging Aware Routing Algorithm Based On Efficient Area And Power Reduction In Nocs	International conference on Modeling, Simulation and Control
27	Low Power BIST Architecture Using PRPG for Fault Identification	NATIONAL CONFERENCE ON VLSI AND SIGNAL PROCESSING (NCVSP'16)
28	A Survey on Stress Variation in 3D IC Placement	NATIONAL CONFERENCE ON VLSI AND SIGNAL PROCESSING
29	Design of Reconfigurable Antenna for L and S Band	International Conference on Modelling, Simulation and Control (ICMSC - 2015)