

FACULTY PROFILE



Dr.S.SASIKUMAR, M.E, Ph.D

Professor/ECE,
Hindustan Institute of Technology and Science
ssasik@hindustanuniv.ac.in

Experience: 24 years

Research Area: VLSI, Image and Signal Processing

Recent Publications:

1. K.Parthiban, S.Sasikumar (2018), 'Performance Analysis of Leakage Current Reduction in Standby Mode of Zigbee SOC using Active Gating Logic,' Journal of Computational and theoretical Nanoscience, Vol.15, No.2, pp.525-529.
2. K.Parthiban, S.Sasikumar (2020), 'To implement positive feedback adiabatic logic (PFAL)-nand technique on low power zigbee applications for processor applications,' Microprocessors and Microsystems, Vol.76, pp.102856 (**SCI INDEXED**)
3. K.Parthiban, S.Sasikumar (2019), 'Applications of zigbee SOC with low power based on full swing gate diffusion input,' Journal of Electrical Engineering, Vol.19, Edition.4, Article.19.4.29, pp.255-267.
4. K.Sivakumar, S.Sasikumar (2019), 'Performance Analysis of Leakage Current Reduction in Standby Mode of Zigbee SOC using Active Gating Logic,' Applied mathematics & Information Sciences International Journal, Vol.13, No.3, pp.391-400.(**SCI INDEXED**)
5. K.Sivakumar, S.Sasikumar, N.Mohankumar (2020), 'Efficient video compression and improving quality of video in communication for computer end coding applications,' Computer Communications (Elsevier), Vol.153, pp.153-158. (**SCI INDEXED**).
6. S.Sasikumar,K.Ramesh,P.N.Renjith(2020), 'Sensor Based Water Treatment Methods for Dyeing-Water Recycling with Multi- Combination Dye-Absorption,' TEST Engineering & Management, Vol.83, pp.13371-76.(**SCOPUS INDEXED**).

- 7 B Aravind Balaji, S Sasikumar, K Ramesh (2021), 'SCPI based integrated test and measurement environment using LabVIEW,' IOP Conference Series: Materials Science and Engineering, Vol.1045, Issue.1, pp.012036. (SCOPUS INDEXED).
- 8 PN Renjith, K Ramesh, S Sasikumar (2021), 'An improved trust-based security framework for internet of things' International Journal of Information Technology, Springer Singapore, Vol.13, Issue.2, pp.677-685.(SCOPUS INDEXED)
- 9 B Aravind Balaji, S Sasikumar, K Ramesh (2021), 'Development of Test Automation Framework for Printed Circuit Board Assembly,' Journal of Physics: Conference Series, IOP Publishing, Vol.2070, Issue.1, pp.012142. (SCOPUS INDEXED).
- 10 R. Suresh Kumar, R.Dhanagopal, and S.SasiKumar (2021), 'Enriched Optimization Algorithm for Effective Skin Disease Prediction using Soft Computing Techniques,' Journal of Medical Information and Health Informatics, American Scientific Publisher, Vol.11, pp.2836-2844. (WOS INDEXED).
- 11 Tony.S.M, Sasikumar.S (2022), 'Music Generation using Supervised Learning and LSTM' Lecture notes in Electrical Engineering, springer Publishing, Vol.776, pp.477-485. (SCOPUS INDEXED).
- 12 Sankaran K S, Sasikumar S, Vasudevan, N, Prakash V R, Babitha L, 'Pattern Generation and Dimensionality Reduction Using CNN for Image Restoration', IEEE International conference on Communication and Signal Processing (ICCSP'19), Adhiparasakthi Engineering College, Chennai, 4rd to 6th April 2019.
- 13 S, Sasikumar, K.Ramesh, P.N.Renjith, 'Optimizing the Role of Orchestrator for Integration Aneka PaaS with AWS Cloud', Proceedings of the Fifth International Conference on Inventive Computation Technologies (ICICT-2020), pp.613-616, 17th April 2020.
- 14 S, Sasikumar, K.Ramesh, P.N.Renjith, K Sakthidasan Sankaran 'Attention Based Recurrent Neural Network for Lung Cancer Detection', 2020 Fourth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud)(I-SMAC), pp.720-724, 7th October 2020.
- 15 S.Aiswarya, K.Ramesh, B.Prabha, S.Sasikumar, K.Vijayakumar, 'A time optimization model for the Internet of Things-based Healthcare system using Fog computing', IEEE 2021 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSSES), pp.1-6, 24th September 2021
- 16 Shekhar, H., Kudithi, T., Sasikumar, S., Rajmohan, V., 'Wireless Sensor and Actuator networks with matrix completion techniques for link estimation and missing value predictions', Proceedings - 5th International Conference on Computing Methodologies and Communication, ICCMC 2021), pp.137-141, 2021.

17 S.Sasikumar, K.Sivakumar, Jalil,M.A,.Ray,K, Nagarajan.D, ‘An Error Resilient Video Transmission in Adhoc network using Error Diffusion Block Truncation Coding’, Communications in Computer and Information Science,Vol.1435, pp.295-305, 2021

PATENT: 1

1 Title of the Patent: MAXIMUM POWERPOINT TRACKABLE AND OPTIMIZED IOT BASED PV CHARGE CONTROLLER USING MACHINE LEARNING

Patent no and Date: 2020102231 granted on 14.10.2020 by Australian Government

Term of Patent: 8 years from 12.09.2020