

## **FACULTY PROFILE**



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**EXPERIENCE:**14.5 Years

### **RESEARCH AREA INTEREST:**

- Artificial Intelligence
- Machine Learning
- Artificial Neural Networks
- Image Processing
- Sensor Networks
- Wireless Communication and
- Antenna Design.

### **LIST OF AWARDS RECEIVED**

1. Recipient of the "**BEST FACULTY AWARD - 2019**" from Hindustan Institute of Technology and Science, Chennai for exemplary performance in teaching, research, and administration for the academic year 2018-2019 during the Teachers Day Celebration on 09<sup>th</sup> September 2019.
2. Recipient of the "**BEST FACULTY AWARD - 2017**" in 6<sup>th</sup> National Summit on "Education, Employability, Employment, Entrepreneurship (4E's)" held at the IIT-Madras, Chennai on 20<sup>th</sup> & 21<sup>st</sup> September, 2017.
3. Recipient of the **PROFESSIONAL ACHIEVEMENT RECOGNITION** certificate at IEEE Day for the IEEE Madras Section Member Achievements -2017 held on 28<sup>th</sup> Oct 2017.

## LIST OF PATENTS

TOTAL NO OF PATENTS: 03

Indian Patent – 01 International Patent : 03

### INDIAN PATENT

1. **Title of the Invention** : Secured Intelligent Vehicular Systems Using Wireless SensorNetworks.  
**Application No.** : 202041034715 A  
**Publication Date** : 04.09.2020  
**Status** : Published

### INTERNATIONAL PATENT

1. **Title of the Invention** : Design and Implementation of a Disaster Management System Using IoT and CloudComputing techniques for a connected buildings to save lives with early warnings  
**Patent No.** : 2020101867  
**Publication Date** : 09.09.2020  
**Status** : Received Certificate of Grant
2. **Title of the Invention** : Maximum Power Point Trackable and Optimized IoT based PV Charge Controller usingMachine Learning  
**Patent No.** : 2020102231  
**Publication Date** : 14.10.2020  
**Status** : Received Certificate of Grant
3. **Title of the Invention** : Intuitionistic Fuzzy Based Deep Learning Model for Visual Interpretation of Low Dose X-Ray Image  
**Patent No.** : 2020103673  
**Publication Date** : 20.01.2021  
**Status** : Received Certificate of Grant

## LIST OF PUBLICATIONS

CITATION: 199

H-INDEX: 10

### i Number of International Journal Publications – 76

1. **K.Sakthidasan @ Sankaran, Xiao-ZhiGao, K.R.Devabalaji and Y.MohanaRoopa.** “Energy based random repeat trust computation approach and Reliable Fuzzy and Heuristic Ant Colony mechanism for improving QoS in WSN”, *Elsevier – Energy Reports*, Available Online, DOI: <https://doi.org/10.1016/j.egy.2021.08.121>(**Impact Factor :6.87**)

2. **K.Sakthidasan Sankaran**, and Xiao-ZhiGao. "An iterative scheme for optimal and energy effective power allocation using multi-scale resource GOA-EM in distributed antenna system", *Journal of Intelligent and Fuzzy System*, Vol. 41, No.1, pp. 2061–2072, DOI:10.3233/JIFS-210727(**Impact Factor :1.851**)
3. **K.Sakthidasan Sankaran**, M.Thangapandiyam and N.Vasudevan. "Brain tumor grade identification using deep Elman neural network with adaptive fuzzy clustering-based segmentation approach", *Springer – Multimedia Tools and Applications*, 2021, DOI:https://doi.org/10.1007/s11042-021-10873-5(**Impact Factor :3.313**)
4. S.Prabha, **K.Sakthidasan @ Sankaran**, D.Chitradevi. "Efficient Optimization based Thresholding Technique for Analysis of Alzheimer MR Images", *International Journal of Neuroscience*,2021, DOI:https://doi.org/10.1080/00207454.2021.1901696(**Impact Factor-2.107**)
5. **K. Sakthidasan Sankaran**, N. Vasudevan, K.R. Devabalaji, ThanikantiSudhakarBabu, Hassan HaesAlhelou, T Yuvaraj, "A Recurrent Reward Based Learning Technique for Secure Neighbor Selection in Mobile AD-HOC Networks", *IEEE Access*, vol.9, pp.21735-21745, 2021, DOI: 10.1109/ACCESS.2021.3055422(**Impact Factor-3.745**)
6. **K. Sakthidasan**,BhekisiphoTwala, S. Yuvaraj, K. Vijayan, S. Praveenkumar, Prashant Mani, C. Bharatiraja, "State-Based Offloading Model for Improving Response Rate of IoT services", *CMC-Computers, Materials & Continua*, Vol.63, No.3, pp.3721-3735,2021, doi:10.32604/cmc.2021.014321(**Impact Factor- 4.89**)
7. **K. Sakthidasan Sankaran**, K. Vijayan, S. Yuvaraj, J. K. Periasamy, M. Balasaraswathi, Jay Prakash Narayan Verma & Chandra Shakher Tyagi, "Weighted-based path rediscovery routing algorithm for improving the routing decision in wireless sensor network", in *Springer - Journal of Ambient Intelligence and Humanized Computing* (Online First Article), 2021, https://doi.org/10.1007/s12652-020-02709-1 (**Impact Factor- 4.594**)
8. DhankeJyotiAtul, R.Kamalraj, G.Ramesh, **K.Sakthidasan Sankaran**, SudhirSharma, SyedKhasim, "A machine learning based IoT for providing an intrusion detection system for security", *Elsevier – Microprocessor and Microsystems*, Vol.82, 103471 , 2021.(**Impact Factor- 1.161**)
9. **Sakthidasan Krishnan**, S.Vaithyasubramanian. & M. Maragatharajan, "SAED: Self-adaptive Error Detection Automation for Leveraging Computational Efficiency of HCI Systems", *Springer- Wireless Personal Communication*, Vol. 117, No.4 pp: 3289–3307 2021. <https://doi.org/10.1007/s11277-020-07988-7>, (**Impact Factor: 1.061**)
10. M.Subalatha, S.Jayashri, J.Raja, K.Sakthidasan @ Sankaran, "Low Complexity Maximum Likelihood FBMC QAM for Improved Performance in Longer Delay Channels". *Springer-*

*Wireless Personal Communication*, Vol. 117, No.4, pp:3051-3066, 2021, DOI: <https://doi.org/10.1007/s11277-020-07427-7>, (Impact Factor: 1.061)

11. Kousalya, A., **Sakthidasan, K.** &Latha, "Reliable service availability and access control method for cloud assisted IOT communications", in *Wireless Network-Springer*, <https://doi.org/10.1007/s11276-019-02184-3>, Vol.27, No,2, pp:881-892, 2021, (Impact Factor - 2.405)
12. N. Sridevi, V. Nagarajan, **K. Sakthidasan @ Sankaran**, "Efficient traffic control and lifetime maximization in mobile ad hoc network by using PSO–BAT optimization", in *Wireless Network-Springer*, <https://doi.org/10.1007/s11276-019-02173-6>,Vol.27, No,2, pp:861-870, 2021. (Impact Factor - 2.405)
13. S. Sasikumar, P. N. Renjith, K. Ramesh and **K. Sakthidasan Sankaran**, "Attention Based Recurrent Neural Network for Lung Cancer Detection," in Proceedings of 4<sup>th</sup> IEEE International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC) – *IEEE Digital Explore* ,pp. 720-724, 2020.*doi: 10.1109/I-SMAC49090.2020.9243556*
14. K.Thenkumari, V.Belin Geo, A.Kumaresan, **K.Sakthidasan**, "Energy Efficient & Secured Communication for Vanet Using Location Dependent Key Management", *Journal of Green Engineering*, Vol.10, No.11, pp.11070-11089, 2020.
15. S.Srinivasan, A.Arikesh, E.Terence, **Krishnan Sakthidasan**, "Pattern Matching based Vehicle Density Estimation Technique for Traffic Monitoring Systems in Sustainable Smart Cities", *Journal of Green Engineering*, Vol.10, No.10, pp.9812-9822, 2020.
16. R.Shyamala Devi, J.Suganya, P.Elangovan, **K.Sakthidasan**, "Energy Efficient Adaptive Device-Dependent Data Transmission Method for Internet of Things Aided Wireless Sensor Networks", *Journal of Green Engineering*, Vol.10, No.10, pp.8414-8426, 2020.
17. Suresh Akkole, N.Vasudevan , **K.Sakthidasan Sankaran**, "Energy efficient multi band square fractal microstrip antenna for sustainable development in wireless communication", *Journal of Green Engineering*, Vol.10, No.9, pp. 5045-5056, 2020
18. Vitawat Sittakul, S. Vijayalakshmi, NagarajanVelmurugan, **K.Sakthidasan Sankaran**, "Implementation of High-Efficiency and Ultra-Low-Power Transceiver for the Design of Body Channel Communication Applications", *Springer-Circuits Systems and Signal Processing*, May 2020 , vol. 39, pp:6034–6057 DOI: <https://doi.org/10.1007/s00034-020-01444-4>, (Impact Factor – 1.681)
19. **K Sakthidasan Sankaran** , Aby K thomas., P. ThirumaraiSelvan, R.Vallikannu," Automatic prediction of environmental hazardous gas leakage using machine learning technique and wireless sensor networks", *Journal of Green Engineering*, vol.10, issue.7, July 2020

20. **K. Sakthidasan Sankaran**, K. Kavitha and S. H. priya, "Content Based Image Retrieval Process for Speech Annotated Digital Images," in proceedings of 9<sup>th</sup> IEEE International Conference on Communication and Signal Processing, ICCSP 2020 - *IEEE Digital Xplore*, pp. 1372-1376, **doi: 10.1109/ICCSP48568.2020.9182104**.
21. **K. Sakthidasan Sankaran**, P. Manishankar, K. R. Teja, P. K. Reddy and T. P. Kumar, "Digital Image De-noising and Restoration method using Differential Filters for Improving the Image Quality," in proceedings of 9<sup>th</sup> IEEE International Conference on Communication and Signal Processing, ICCSP 2020- *IEEE Digital Xplore*, pp. 1377-1380, **doi: 10.1109/ICCSP48568.2020.9182064**.
22. **K. Sakthidasan Sankaran**, P. Srikanth, S. N. Basha and Y. Subbarayudu, "An Efficient De-blocking Filter for Quality Improvement of Medical Image Analysis," in proceedings of 9<sup>th</sup> IEEE International Conference on Communication and Signal Processing, ICCSP 2020 -*IEEE Digital Xplore*, pp. 1381-1384, **doi: 10.1109/ICCSP48568.2020.9182252**.
23. S. Prabha, R. S. Raghav, C. Moulya, K. G. Preethi and **K. Sakthidasan Sankaran**, "Analysis and Monitoring Air Quality System using Raspberry Pi," in proceedings of 9<sup>th</sup> IEEE International Conference on Communication and Signal Processing, ICCSP 2020 -*IEEE Digital Xplore*, pp. 1385-1389, **doi: 10.1109/ICCSP48568.2020.9182410**.
24. S. Prabha, R. S. Raghav, C. Moulya, K. G. Preethi and **K. Sakthidasan Sankaran**, "Fusion based Brain Tumor Classification using Multiscale Transform Methods," in proceedings of 9<sup>th</sup> IEEE International Conference on Communication and Signal Processing, ICCSP 2020 - *IEEE Digital Xplore*, pp. 1390-1393, **doi: 10.1109/ICCSP48568.2020.9182291**.
25. **K. Sakthidasan Sankaran**, N. Vasudevan and V. Nagarajan, "Plant Disease Detection and Recognition using K means Clustering," in proceedings of 9<sup>th</sup> IEEE International Conference on Communication and Signal Processing, ICCSP 2020 -*IEEE Digital Xplore*, pp. 1406-1409, **doi: 10.1109/ICCSP48568.2020.9182095**.
26. S. Prabha, S. S. R. Kumar, G. G. Reddy and **K. Sakthidasan Sankaran**, "Retinal Image Analysis Using Machine Learning," in proceedings of 9<sup>th</sup> IEEE International Conference on Communication and Signal Processing, ICCSP 2020 -*IEEE Digital Xplore*, pp. 1410-1413, **doi: 10.1109/ICCSP48568.2020.9182227**.
27. **K. Sakthidasan Sankaran**, N. Vasudevan and V. Nagarajan, "Data-Centric Routing in WSN for Energy Conservation using Directed Diffusion," in proceedings of 9<sup>th</sup> IEEE International Conference on Communication and Signal Processing, ICCSP 2020 -*IEEE Digital Xplore*, pp. 1414-1417, **doi: 10.1109/ICCSP48568.2020.9182169**.
28. **K. Sakthidasan Sankaran**, N. Vasudevan and V. Nagarajan, "Secured Service Discovery for Internet of Things: Context Awareness Perspective," in proceedings of 9<sup>th</sup> IEEE International

Conference on Communication and Signal Processing, ICCSP 2020 -*IEEE Digital Xplore*, pp. 1418-1421, **doi: 10.1109/ICCSP48568.2020.9182196**.

29. **K. Sakthidasan Sankaran**, N. Vasudevan and V. Nagarajan, "Driver Drowsiness Detection using Percentage Eye Closure Method," in proceedings of 9<sup>th</sup> IEEE International Conference on Communication and Signal Processing, ICCSP 2020 -*IEEE Digital Xplore*, pp. 1422-1425, **doi: 10.1109/ICCSP48568.2020.9182059**.
30. M. Rajmohan, **K. Sakthidasan Sankaran** and T. Rasagna, "Design of 4-Bit Dual Edge Triggered Counter using Quantum DOT Cellular Automata," in proceedings of 9<sup>th</sup> IEEE International Conference on Communication and Signal Processing, ICCSP 2020 -*IEEE Digital Xplore*, pp. 1467-1471, **doi: 10.1109/ICCSP48568.2020.9182226**.
31. A. A. Devarajan, T. Sudalaimuthu and **K. Sakthidasan Sankaran**, "Enhanced Storage Management Optimization in IaaS Cloud Environment," in proceedings of 9<sup>th</sup> IEEE International Conference on Communication and Signal Processing, ICCSP 2020 -*IEEE Digital Xplore*, pp. 1589-1594, **doi: 10.1109/ICCSP48568.2020.9182114**.
32. R.Sundaramurthy, V.Nagarajan , **K.Sakthidasan @ Sankaran**, "Design and Implementation of Reconfigurable Virtual Instruments using Raspberry Pi Core", *Test Engineering and Management*, Vol.83, pp:12623 – 12630, March – April 2020
33. R.Sundaramurthy, V.Nagarajan , **K.Sakthidasan @ Sankaran**, "Time Analysis of Reconfigurable Virtual Instruments using Raspberry Pi Core", *Test Engineering and Management*, Vol.83, pp:12631 - 12638, March – April 2020
34. R. Kumar, **K. Sakthidasan @ Sankaran**, R. Sampath, P. Mohamed Shakeel, "Analysis of regional atrophy and prolong adaptive exclusive atlas to detect the alzheimers neuro disorder using medical images", *Springer – Multimedia Tools and Applications*, Vol.79, pp.10249–10265, 2020. <https://doi.org/10.1007/s11042-019-7213-4> (Impact Factor – 2.313)
35. B.C.Kavitha, R.Vallikannu , **K.Sakthidasan Sankaran**, "Delay-aware concurrent data management method for IoT collaborative mobile edge computing environment", in *Elsevier- Microprocessors and Microsystems*, Vol.74, 103021, April 2020, DOI: <https://doi.org/10.1016/j.micpro.2020.103021>, (Impact Factor – 1.045)
36. **K.Sakthidasan Sankaran**, N.Vasudevan& Ashok Verghese, "ACIAR: application-centric information-aware routing technique for IOT platform assisted by wireless sensor networks", in *Journal of Ambient Intelligence and Humanized Computing*, vol.11, issue.11,pp.4815–4825 February 2020, DOI: <https://doi.org/10.1007/s12652-020-01748-y> (Impact Factor- 1.91)

37. R. Vallikannu, T.VenkateshKanna, G. Vimala Rani, **K. Sakthidasan Sankaran**, "An optimized assistive epileptic seizure detection system for human environmental conscientiousness ", *Journal of Green Engineering*, Vol. 10 , No.1, pp: 225-237, January 2020.
38. K.Thenkumari&**K.Sakthidasan @ Sankaran** , "Frequency reconfigurable micro strip antenna switching techniques for sustainable environment", in *Journal of Green Engineering*, Volume 9, Issue 4, pp: 502-513, December 2019
39. P. Thirumaraiselvan, **K. Sakthidasan @ Sankaran** , V. Beslin Geo, V. R. Prakash and N. Vasudevan, "A Statistical Lower UWB Channel Model for in Body Communications", in *Mobile Networks and Applications – Springer*, Volume 24, Issue 6, pp: 1814-1820, December 2019, (Impact Factor - 2.39)
40. Aby K Thomas, S.S.Manikandan, K.Sunil Kumar, **K. Sakthidasan @ Sankaran**, "A compact dielectric resonator antenna for x-band applications in sustainable environment", *Journal of Green Engineering*, Volume 9, Issue 3, October 2019, Pages 441-450
41. **K. Sakthidasan Sankaran**, N. Vasudevan, P. Kumara Guru Diderot and V.Nagarajan. "Efficient Image De-Noising Technique Based on Modified Cuckoo Search Algorithm", *Journal of Medical Systems- Springer*, Volume 43, Issue 10, 1, Article number 307 , DOI:<https://doi.org/10.1007/s10916-019-1423-1>, October 2019 (Impact Factor - 2.415)
42. Kanpur Rani, V, Vallikannu, R., **Sakthidasan, K**, "Effect of vehicle pollution on urban areas and various corrective measures", *Journal of Green Engineering*, Volume 9, Issue 2, August 2019, Pages 167-175.
43. **K.Sakthidasan @Sankaran**, Geo, V.B., Umarani, S.M., Archana, P, "Sumrate Maximization by Optimal Precoder Design for MIMO Retransmission System", *Journal of Engineering and Applied Sciences*, vol. 14, issue no.11), pp. 3611-3614, 2019.
44. **K. Sakthidasan Sankaran**, H. Abhi Rayna, V. Mangu, V. R. Prakash and N. Vasudevan, "Image Water Marking using DWT to Encapsulate Data in Medical Image," in proceedings of 8<sup>th</sup> IEEE International Conference on Communication and Signal Processing, ICCSP 2019 - *IEEE Digital Library*, pp. 0568-0571, May 2019 . DOI: [10.1109/ICCSP.2019.8698057](https://doi.org/10.1109/ICCSP.2019.8698057)
45. **K. Sakthidasan Sankaran**, S. Sasikumar, N. Vasudevan, V. R. Prakash and L. Babitha, "Pattern Generation and Dimensionality Reduction using CNN for Image Restoration," in proceedings of 8<sup>th</sup> IEEE International Conference on Communication and Signal Processing, ICCSP 2019 -*IEEE Digital Library*, pp. 0559-0563, May 2019. DOI: [10.1109/ICCSP.2019.8697907](https://doi.org/10.1109/ICCSP.2019.8697907)
46. **K. Sakthidasan Sankaran**, N. Vasudevan, V. R. Prakash and P. Kumara Guru Diderot, "Access Control based Efficient Hybrid Security Mechanisms for Cloud Storage," in proceedings of 8<sup>th</sup> IEEE International Conference on Communication and Signal Processing,

ICCSP 2019 -*IEEE Digital Library*, pp. 0564-0567, May 2019 . DOI: **10.1109/ICCSP.2019.8698037**

47. S. Chatterjee, S. S. Kumar, A. N. Raut, **K. Sakthidasan Sankaran** and P. M. RubeshAnand, "A Wide Band Balun Design using Metamaterial Technique for Low Frequency Antenna Application," in proceedings of 8<sup>th</sup> IEEE International Conference on Communication and Signal Processing, ICCSP 2019 -*IEEE Digital Library*, pp. 0735-0738, May 2019. DOI: **10.1109/ ICCSP.2019. 8697948**
48. M. Priyadharsini, T. S. A. Narayanan, T. Singh, **K. Sakthidasan Sankaran** and P. M. RubeshAnand, "Compressed Air Generator Integrated with Renewable Energy Source for Military Application," in proceedings of 8<sup>th</sup> IEEE International Conference on Communication and Signal Processing, ICCSP 2019 -*IEEE Digital Library*, pp.0810-0813, May 2019. DOI: **10.1109/ICCSP.2019. 8697939**
49. P. K. Guru Diderot, N. Vasudevan and **K. Sakthidasan Sankaran**, "An Efficient Fuzzy C-Means Clustering based Image Dissection Algorithm for Satellite Images," in proceedings of 8<sup>th</sup> IEEE International Conference on Communication and Signal Processing, ICCSP 2019 -*IEEE Digital Explore* , pp. 0806-0809, May 2019. DOI: **10.1109/ICCSP.2019.8698054**
50. **Krishnan Sakthidasan**, Natarajan Vasudevan, Paramesvarane Kumara Guru Diderot ;ChellakkuttiKadhiravan , "WOAPR: An affinity propagation based clustering and optimal path selection for time-critical wireless sensor networks", *IET Networks*, Volume 8, Issue 2, pp. 100 – 106,ISSN: 2047-4962, March 2019. DOI: **10.1049/iet-net.2018.5081**
51. **K.Sakthidasan @ Sankaran**, S.Prabha , P.M.RubeshAnand, "Optimized gradient histogram preservation with block wise SURE shrinkage for noise free image restoration", *Springer - Cluster Computing- The Journal of Networks, Software Tools and Applications*, Volume 22, pp: 4457-4478, 2019
52. **K. Sakthidasan alias Sankaran**& V. Nagarajan, "Noise Removal Through the Exploration of Subjective and Apparent Denoised Patches Using Discrete Wavelet Transform", *IETE Journal of Research*, ISSN : **0377-2063**, January 2019(Online First Article). DOI:**10.1080/03772063.2019.1569483**
53. G. Rajesh, and **K. Sakthidasan Sankaran**, "Influence of airline service marketing mix with airline passenger satisfaction and loyalty", *International Journal of Recent Technology and Engineering*,Vol. 3, No. 6, pp.442-448, ISSN 2277-3878, March 2019.
54. P.R. Jasmine Jeni, R. Palson Kennedy and **K. Sakthidasan Sankaran**, "Reliable Army Knowledge Management Process using Perception Tacit Knowledge with Xenogeneic Deep Neural Networks", *Inderscience- International Journal of Knowledge Management Studies*,Vol. 10, No. 1, pp.48–57, ISSN 1743-8268, January 2019. DOI: **10.1504/IJKMS.2019.097124**



55. D. Chitradevi, S. Prabha and **K. Sakthidasan Sankaran**, "Brain Hemisphere Analysis Using Genetic Algorithm and Fuzzy Clustering in Alzheimer Disease," in proceedings of 7<sup>th</sup> IEEE International Conference on Communication and Signal Processing, ICCSP 2018 -*IEEE Xplore-Digital Library*, pp. 901-905. 2018 DOI: [10.1109/ICCSP.2018.8524378](https://doi.org/10.1109/ICCSP.2018.8524378)
56. M. Thangapandiyam, P. M. RubeshAnand and **K. Sakthidasan Sankaran**, "Quantum Key Distribution and Cryptography Mechanisms for Cloud Data Security," in proceedings of 7<sup>th</sup> IEEE International Conference on Communication and Signal Processing, ICCSP 2018 -*IEEE Xplore-Digital Library*, pp. 1031-1035. April 2018 DOI: [10.1109/ICCSP.2018.8524298](https://doi.org/10.1109/ICCSP.2018.8524298)
57. M. Thangapandiyam, P. M. R. Anand and **K. Sakthidasan Sankaran**, "Enhanced Cloud Security Implementation Using Modified ECC Algorithm," in proceedings of 7<sup>th</sup> IEEE International Conference on Communication and Signal Processing, ICCSP 2018 -*IEEE Xplore-Digital Library*, pp. 1019-1022. April 2018 DOI: [10.1109/ICCSP.2018.8524212](https://doi.org/10.1109/ICCSP.2018.8524212)
58. S. Rajan, P. M. RubeshAnand, D. J. Persis and **K. Sakthidasan Sankaran**, "Comparative Analysis of Scheduling Algorithms in Cloud Environment," in proceedings of 7<sup>th</sup> IEEE International Conference on Communication and Signal Processing, ICCSP 2018 -*IEEE Xplore-Digital Library*, pp. 0953-0956. April 2018 DOI: [10.1109/ICCSP.2018.8524242](https://doi.org/10.1109/ICCSP.2018.8524242)
59. S. Sureshkumar, P. M. R. Anand, A. Prajapati and **K. Sakthidasan Sankaran**, "Negative Index Metamaterial Based Dual-Band Microwave Absorber", in proceedings of 7<sup>th</sup> IEEE International Conference on Communication and Signal Processing, ICCSP 2018 -*IEEE Xplore-Digital Library*, pp. 0897-0900. April 2018 DOI: [10.1109/ICCSP.2018.8524523](https://doi.org/10.1109/ICCSP.2018.8524523)
60. S. Sureshkumar, P. M. RubeshAnand, A. Prajapati and **K. Sakthidasan Sankaran**, "Low Pass Filter Design with CSRR as Defected Ground Structure," in proceedings of 7<sup>th</sup> IEEE International Conference on Communication and Signal Processing, ICCSP 2018 -*IEEE Xplore-Digital Library*, pp. 893-896. April 2018 DOI: [10.1109/ICCSP.2018.8524163](https://doi.org/10.1109/ICCSP.2018.8524163)
61. T.Reena Raj, **K.Sakthidasan @ Sankaran** and V.Nagarajan, "Chaotic Sequence based MC-CDMA for 5G", *Wiley-Concurrency and Computation: Practice and Experience*, ISSN: 1532-0634, September 2018 (Online First Article). DOI: <https://doi.org/10.1002/cpe.4992>
62. V. Beslin Geo, **K.Sakthidasan @ Sankaran**, P.Archana, S.M.Umarani, "Extraction of hidden text from images using DWT", *International Journal of Engineering and Technology (UAE)*. Volume 7, Issue 4.36 Special Issue 36, ISSN: 2227-524X, 2018, DOI : [10.14419/ijet.v7i4.36.23908](https://doi.org/10.14419/ijet.v7i4.36.23908)
63. **K. Sakthidasan @ Sankaran** and K. E. Purushothaman, "Adaptive Enhancement of Low Noise Amplifier Using Cadence Virtuoso Tool," in proceedings of 6<sup>th</sup> IEEE International Conference on Communication and Signal Processing, ICCSP 2017 -*IEEE Xplore-Digital Library* pp: 330-334, Print ISBN: 978-1-5090-4800-7, February 2017, DOI: [10.1109/ICRTCCM.2017.37](https://doi.org/10.1109/ICRTCCM.2017.37),

64. **K.Sakthidasan @ Sankaran** , B.Hemamalini , V. Nagarajan , ‘Edge Protective Image Restoration Using ANN Method’, *International Journal of Printing, Packaging & Allied Sciences*,Vol5(1),223-229,ISSN2320-4387,February2017
65. **K.Sakthidasan @ Sankaran** and VelmuruganNagappan , ‘Noise Free Image Restoration Using Hybrid Filter With Adaptive Genetic Algorithm’, *Elsevier - International Journal of Computers and Electrical Engineering*, Vol 54 (4),382-392, ISSN 0045-7906, January 2016 DOI: [10.1016/ j.compeleceng .2015.12.011](https://doi.org/10.1016/j.compeleceng.2015.12.011), Impact Factor – 1.083.
66. **Sakthidasan @ Sankaran, K&VelmuruganNagarajan** 2016, ‘A Speculative Method for Removal of Noise Using Iterative Median Filter’, Middle East Journal of Scientific Research, International Digital Organization for Scientific Information Publications, Vol 24 (2),390-397, ISSN 1990-9233, March 2016, DOI: [10.5829/ idosi. mejsr. 2016.24.02.23031](https://doi.org/10.5829/idosi.mejsr.2016.24.02.23031).
67. R.JothiChitra,**K.Sakthidasan @ Sankaran** &V.Nagarajan 2016, ‘Iterative Non Local Image Restoration using Interpolation of Up and Down Sampling’, in *International Journal of Advanced Engineering Technology*, Vol.07, No. 02, pp. 633-638, 2016.
68. R.Arun Kumar,**K.Sakthidasan @ Sankaran** &T.Balasubramanian, ‘DWT based Novel Image Denoising by Exploring Internal and External Correlation’, in *International Journal of Innovative Research in Science, Engineering and Technology*, Vol.05, Issue 06, pp.10136-10142, 2016.
69. **K.Sakthidasan @ Sankaran**, Srinithya and Dr.V.Nagarajan “Retrieval of the original image by artificial neural network” in proceedings of 4<sup>th</sup> IEEE International Conference on Communication and Signal Processing, ICCSP 2014 -*IEEE Xplore-Digital Library*Pg: 1798 - 1802, Print ISBN: 978-1-4799-3357-0 , April 2014 , DOI: [10.1109/ICCSP.2014.6950156](https://doi.org/10.1109/ICCSP.2014.6950156)
70. **K.Sakthidasan @ Sankaran**, G.Ammu and Dr.V.Nagarajan “Non local image restoration using iterative method” in proceedings of 4<sup>th</sup> IEEE International Conference on Communication and Signal Processing, ICCSP 2014 -*IEEE Xplore-Digital Library* , pp: 1740 - 1744, Print ISBN: 978-1-4799-3357-0 , April 2014, DOI: [10.1109/ ICCSP.2014.6950144](https://doi.org/10.1109/ICCSP.2014.6950144)
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1. NagarajanVelmurugan, JothiChitraRadhakrishnan, **Sakthidasan @ Sankaran Krishnan**, ‘Design of Small Scale Patch Antenna using metamaterials with CSR Resonantors’. in 10<sup>th</sup> International Conference on Antenna Test and Measurement (ATMS India 2017), 7<sup>th</sup>& 8<sup>th</sup> February 2017, Hyderabad pp: 168-174
2. **K.Sakthidasan @ Sankaran** and V.Nagarajan , ‘Efficient Noise Reduction Method Using Iterative Median Filter for Digital Images’, in International Technical Conference on Circuits / Systems, Computers and Communications (ITC-CSCC 2015), June 29<sup>th</sup> – July 2<sup>nd</sup> ,2015 in Seoul , Korea.pp: 193-198
3. **K.Sakthidasan @ Sankaran**, S.Bhuvaneshwari and Dr.V.Nagarajan“**An Efficient Improvements on the AMF for Removal of Impulse Noise**” in *the International Conference on Electrical, electronics and Computer Science (ICEECS 2014)* on 20<sup>th</sup> March 2014 in Chennai conducted by Information Technology Society of India, Bhuvaneshwar, Odissa
4. **K.Sakthidasan @ Sankaran** “**Wireless Based Intelligent Auto-Call Transfer Service Using Pots**” in *the International Conference on Futuristic Trends in Electronic Engineering (ICFTEE 2012)* Held at Thiruvalluvar College of Engineering on 28<sup>th</sup> and 29<sup>th</sup> January 2012.
5. **K.Sakthidasan @ Sankaran** and C.Priyadarshini“**PSO based route lifetime prediction algorithm for maximizing network lifetime in MANET**” in *the International Conference on*

*Recent Trends in Information Technology (ICRTIT 2012)* Held at Madras Institute of Technology, Chennai on 19<sup>th</sup> and 21<sup>st</sup> April 2012.

6. **K.Sakthidasan @ Sankaran** and B.V.Santhosh Krishna “**Encryption and Decryption of Digital color images on High Dimensional Chaotic Maps**” in *IEEE sponsored International Conference on Engineering and Information Management (ICEIM 2011)* on April 15-17, 2011 in Chengdu, China.
7. **K.Sakthidasan @ Sankaran** and B.V.Santhosh Krishna “**GRUDGE- Gateway For Resolving Ultimately Dangerous Germs in MANETS**” in the *International Conference on Recent Trends in Engineering Management and Computer Applications (INRTIEMC 2011)* Held at Pallavan College of Engineering on 30<sup>th</sup> and 31<sup>th</sup> May 2011

#### BOOK CHAPTER PUBLICATION

1. K. Sakthidasan Sankaran, G. Ramprabu and V.R. Prakash, “Importance of Fifth Generation Wireless Systems”, IntechOpen Limited, UK, **DOI: [http://dx.doi.org /10.5772/intechopen.89345](http://dx.doi.org/10.5772/intechopen.89345)**

#### DETAILS OF TECHNICAL REVIEWER IN JOURNALS

- **Recognized Reviewer in Elsevier International Journal of Computer and Electrical engineering**
- **Recognized Reviewer in IEEE Access Journal**
- **Reviewer in IET Image processing journal**
- **Reviewer in Journal of Intelligent Systems , De Gruyter**
- Organizing Secretary and reviewer of International Conference on Communication and Signal Processing (ICCSP) for the past **5 years** (2013 to till date)
- Organizing Committee Member in International Conference on Internet of Things and Applications for Smart City organized by IFERB
- Editorial Board member in International Journal of Engineering Research in Electronics and Communication Engineering (IJERECE)
- Editorial Board member in International Journal Of Advanced Information And Communication Technology
- Editorial Board member in Journal of Electronic Design Engineering
- ReviewerBoard member in Technical Research Organization, India.

1. Reviewer Board Member in International Research Journal of Computer Science