

FACULTY PROFILE



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RESEARCH AREA INTEREST:

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

LIST OF PUBLICATIONS:

1. Vitawat Sittakul, S. Vijayalakshmi, Nagarajan Velmurugan, **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)**
2. 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***, (Article in Press), **DOI: <https://doi.org/10.1007/s11277-020-07427-7>, (Impact Factor: 1.061)**
3. **K. Sakthidasan Sankaran**, K. Kavitha and S. H. priya, "Content Based Image Retrieval Process for Speech Annotated Digital Images," ***IEEE Digital Xplore***, pp. 1372-1376, **doi: 10.1109/ICCSP48568.2020.9182104**.
4. **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," *IEEE Digital Xplore*, pp. 1377-1380, **doi: 10.1109/ICCSP48568.2020.9182064**.
5. **K. Sakthidasan Sankaran**, P. Srikanth, S. N. Basha and Y. Subbarayudu, "An Efficient De-blocking Filter for Quality Improvement of Medical Image Analysis," *IEEE Digital Xplore*, pp. 1381-1384, **doi: 10.1109/ICCSP48568.2020.9182252**.
 6. S. Prabha, R. S. Raghav, C. Moulya, K. G. Preethi and **K. Sakthidasan Sankaran**, "Analysis and Monitoring Air Quality System using Raspberry PI," *IEEE Digital Xplore*, pp. 1385-1389, **doi: 10.1109/ICCSP48568.2020.9182410**.
 7. S. Prabha, R. S. Raghav, C. Moulya, K. G. Preethi and **K. Sakthidasan Sankaran**, "Fusion based Brain Tumor Classification using Multiscale Transform Methods," *IEEE Digital Xplore*, pp. 1390-1393, **doi: 10.1109/ICCSP48568.2020.9182291**.
 8. **K. Sakthidasan Sankaran**, N. Vasudevan and V. Nagarajan, "Plant Disease Detection and Recognition using K means Clustering," *IEEE Digital Xplore*, pp. 1406-1409, **doi: 10.1109/ICCSP48568.2020.9182095**.
 9. S. Prabha, S. S. R. Kumar, G. G. Reddy and **K. Sakthidasan Sankaran**, "Retinal Image Analysis Using Machine Learning," *IEEE Digital Xplore*, pp. 1410-1413, **doi: 10.1109/ICCSP48568.2020.9182227**.
 10. **K. Sakthidasan Sankaran**, N. Vasudevan and V. Nagarajan, "Data-Centric Routing in WSN for Energy Conservation using Directed Diffusion," *IEEE Digital Xplore*, pp. 1414-1417, **doi: 10.1109/ICCSP48568.2020.9182169**.
 11. **K. Sakthidasan Sankaran**, N. Vasudevan and V. Nagarajan, "Secured Service Discovery for Internet of Things: Context Awareness Perspective," *IEEE Digital Xplore*, pp. 1418-1421, **doi: 10.1109/ICCSP48568.2020.9182196**.
 12. **K. Sakthidasan Sankaran**, N. Vasudevan and V. Nagarajan, "Driver Drowsiness Detection using Percentage Eye Closure Method," *IEEE Digital Xplore*, pp. 1422-1425, **doi: 10.1109/ICCSP48568.2020.9182059**.
 13. M. Rajmohan, **K. Sakthidasan Sankaran** and T. Rasagna, "Design of 4-Bit Dual Edge Triggered Counter using Quantum DOT Cellular Automata," *IEEE Digital Xplore*, pp. 1467-1471, **doi: 10.1109/ICCSP48568.2020.9182226**.
 14. A. A. Devarajan, T. Sudalaimuthu and **K. Sakthidasan Sankaran**, "Enhanced Storage Management Optimization in IaaS Cloud Environment," *IEEE Digital Xplore*, pp. 1589-1594, **doi: 10.1109/ICCSP48568.2020.9182114**.
 15. 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
 16. 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

17. 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)
18. **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*, February 2020 (Article in Press), DOI: <https://doi.org/10.1007/s12652-020-01748-y> (Impact Factor- 1.91)
19. R. Vallikannu, T.Venkatesh Kanna, 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.
20. 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
21. 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)
22. 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>, November 2019, (Online First Article), (Impact Factor - 2.405)
23. 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>, October 2019, (Online First Article), (Impact Factor - 2.405)
24. 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
25. **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)
26. 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.
27. **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," *IEEE Digital Library*, pp. 0568-0571, May 2019 . DOI: 10.1109/ICCSP.2019.8698057

28. **K. Sakthidasan Sankaran**, S. Sasikumar, N. Vasudevan, V. R. Prakash and L. Babitha, "Pattern Generation and Dimensionality Reduction using CNN for Image Restoration," *IEEE Digital Library*, pp. 0559-0563, May 2019. **DOI: 10.1109/ICCSP.2019.8697907**
29. **K. Sakthidasan Sankaran**, N. Vasudevan, V. R. Prakash and P. Kumara Guru Diderot, "Access Control based Efficient Hybrid Security Mechanisms for Cloud Storage," *IEEE Digital Library*, pp. 0564-0567, May 2019 . **DOI: 10.1109/ICCSP.2019.8698037**
30. S. Chatterjee, S. S. Kumar, A. N. Raut, **K. Sakthidasan Sankaran** and P. M. Rubesh Anand, "A Wide Band Balun Design using Metamaterial Technique for Low Frequency Antenna Application," *IEEE Digital Library*, pp. 0735-0738, May 2019. **DOI: 10.1109/ ICCSP.2019. 8697948**
31. M. Priyadharsini, T. S. A. Narayanan, T. Singh, **K. Sakthidasan Sankaran** and P. M. Rubesh Anand, "Compressed Air Generator Integrated with Renewable Energy Source for Military Application," *IEEE Digital Library*, pp.0810-0813, May 2019. **DOI: 10.1109/ICCSP.2019. 8697939**
32. P. K. Guru Diderot, N. Vasudevan and **K. Sakthidasan Sankaran**, "An Efficient Fuzzy C-Means Clustering based Image Dissection Algorithm for Satellite Images," *IEEE Digital Explore* , pp. 0806-0809, May 2019. **DOI: 10.1109/ICCSP.2019.8698054**
33. **Krishnan Sakthidasan**, Natarajan Vasudevan, Paramesvarane Kumara Guru Diderot ;Chellakkutti Kadhiraavan , "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**
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35. **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**
36. 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.
37. 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**
38. 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*, ISSN: 1380-7501, January 2019. (Online First Article).

39. D. Chitradevi, S. Prabha and **K. Sakthidasan Sankaran**, "Brain Hemisphere Analysis Using Genetic Algorithm and Fuzzy Clustering in Alzheimer Disease," in *IEEE Xplore-Digital Library*, pp. 901-905. April 2018 DOI: [10.1109/ICCSP.2018.8524378](https://doi.org/10.1109/ICCSP.2018.8524378)
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45. 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>
46. 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)
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48. **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
49. **K.Sakthidasan @ Sankaran** and Velmurugan Nagappan , '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.
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53. **K.Sakthidasan @ Sankaran**, Srinithya and Dr.V.Nagarajan "Retrieval of the original image by artificial neural network" in *IEEE Xplore-Digital Library* Pg: 1798 - 1802, Print ISBN: 978-1-4799-3357-0 , April 2014 , DOI: 10.1109/ICCSP.2014.6950156
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56. **K.Sakthidasan @ Sankaran**, G.Ammu and Dr.V.Nagarajan "Patch Based Image Restoration Using Adaptive Bilateral Filtering" in *IEEE Xplore-Digital Library* Pg: 1 – 5, Print ISBN: 978-1-4799-3835-3 , April 2014, DOI: 10.1109/ICICES.2014.7033985
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