

**DR. S. KAVITHA**

Associate Professor

Department of Computer Science and Engineering

SSN College of Engineering

Id: [kavithas@ssn.edu.in](mailto:kavithas@ssn.edu.in)

Mob: 9444674502

**LIST OF PUBLICATIONS**

**INTERNATIONAL JOURNALS**

1. Kavitha Srinivasan, Mohanavalli Subramaniam and Bharathi Bhagavathsingh, "*Optimized bilevel classifier for brain tumor type and grade discrimination using evolutionary fuzzy computing*", in Turkish Journal of Electrical Engineering & Computer Sciences, (2019) 27: 1704 – 1718, DOI:10.3906/elk-1804-13. IF:0.697
2. Kavitha Srinivasan, Shanmuga Velayutham V, Vignesh G, Subash R. "Object Recognition for Visually Impaired People", International Journal of Computer Trends and Technology, 68(8), 33-38, September 2020, E-ISSN: 2231-2803, P-ISSN: 2349-0829
3. Poornima S, Kavitha S, Sheerin Sitara N and Balaprasanna A S, "*Hybrid Fusion based Learning Model for Biometric Authentication*", Caribbean Journal of Science, Volume 53, ISSUE 1 (JAN - APR), 2019, pp. 606-613, ISSN: 0008-6452
4. S.Kavitha and K.K.Thyagarajan, "*Fuzzy Qualitative Reasoning Model for Astrocytoma Brain Tumor Grade Diagnosis*", Indian Journal of Science and Technology, Vol 11(38), DOI: 10.17485/ijst/2018/v11i38/107253, October 2018, pp:1-13
5. Sheerin Sitara N, Kavitha. S. and Raghuraman. G, "*Review and Analysis of Crack Detection and Classification techniques based on Crack Types*", International Journal of Applied Engineering Research (IJAER), ISSN 0973-4562, Vol. 13(8), May 2018, pp. 6056-6062.
6. S. Kavitha, B. Bharathi, P. Sasikala, P. Chandralekha, V. Ashwini, "*Modified dual channel PCNN algorithm with hybrid edge enhancement approach for multimodality brain image fusion*", International Journal of Biomedical Engineering and Technology (IJBET), Vol 28(2), 2018, pp:120-146, DOI:[10.1504/IJBET.2017.10006801](https://doi.org/10.1504/IJBET.2017.10006801)
7. Kavitha S and Thyagarajan K.K., "*Efficient DWT-based fusion techniques using genetic algorithm for optimal parameter estimation*", Springer-Soft Computing Journal, 21(12), 2017, pp: 3307-3316. DOI 10.1007/s00500-015-2009-6, IF: 2.472
8. S.Kavitha, B.Bharathi, K.MohanaPriya, S.MohanaPriya and V.C. NithusSushmy, "*Optimal feature set selection for brain tumor classification using Genetic Algorithm with Support Vector Machine and Decision Tree*", Asian Journal of Research in Social Sciences and Humanities, 6(9), September 2016, pp: 660-670.
9. S. Kavitha, Vijay V, Saketh A B., "*Matrix Sort - A Parallelizable Sorting Algorithm*", International Journal of Computer Applications, Vol. 143, No.9, June 2016.
10. Kavitha S and Thyagarajan K.K., "*A survey on quantitative metrics for assessing the quality of fused medical images*", Research Journal of Applied Sciences, Engineering and Technology, 12(3), pp: 282-293, Feb 2016, IF 0.654, ISSN: 2040-7459, SJR 0.16, DOI: <http://dx.doi.org/10.19026/rjaset.12.2335>

11. Kavitha S and Thyagarajan K. K., "Survey on wavelet based image fusion techniques", International Journal on Recent and Innovation Trends in Computing and Communication, 4(5), pp: 466-473, ISSN: 2321-8169, May 2016
12. B. Bharathi, S. Kavitha and N. Mariappan, "Real time speech based integrated development environment for C program", Circuits and Systems, 7, pp. 69-82, ISSN Print: 2153-1285, E-ISSN: 2153-1293, March 2016, DOI: <http://dx.doi.org/10.4236/cs.2016.73008>

## INTERNATIONAL CONFERENCES

1. Sheerin Sitara Noor Mohamed and Kavitha Srinivasan, published a paper titled "ImageCLEF 2020: An approach for Visual Question Answering using VGG-LSTM for different datasets", In 11th CLEF conference, Thessaloniki, Greece as CLEF 2020 Working Notes, Vol.2696, paper 94. pp.1-10, Sep 22-25, 2020, Published online: October 2020
2. Sarada Devi Arul and Kavitha Srinivasan, published a paper titled "ImageCLEF 2020: Image Caption Prediction using Multilabel Convolutional Neural Network", In 11th CLEF conference, Thessaloniki, Greece as CLEF 2020 Working Notes, Vol.2696, paper 107. pp.1-8, Sep 22-25, 2020, Published online: October 2020
3. Akshara S., Hemapriyalakshmi R., Keerthana S., Bharathi B., Kavitha S. (2020) "Acoustic Scene Classification Using Convolutional Neural Network". In: Reddy V., Prasad V., Wang J., Reddy K. (eds) Soft Computing and Signal Processing. ICSCSP 2019. Advances in Intelligent Systems and Computing, Vol. 1118. Springer, Singapore, March 2020.
4. Sharmadha S., Shivani K., Shruthi K., Bharathi B., Kavitha S. (2020), "Automatic Speech Recognition Using Deep Neural Network". In: Reddy V., Prasad V., Wang J., Reddy K. (eds) Soft Computing and Signal Processing. ICSCSP 2019. Advances in Intelligent Systems and Computing, Vol. 1118. Springer, Singapore, March 2020.
5. Noor Mohamed S.S., Srinivasan K. (2020), "Comparative Analysis of Deep Neural Networks for Crack Image Classification", In: Hemanth D., Shakyia S., Baig Z. (eds) Intelligent Data Communication Technologies and Internet of Things. ICICI 2019. Lecture Notes on Data Engineering and Communications Technologies, Vol 38. Springer, Cham, November 2019. [https://doi.org/10.1007/978-3-030-34080-3\\_49](https://doi.org/10.1007/978-3-030-34080-3_49)
6. N. Mangayarkarasi, G. Raghuraman and S. Kavitha, "Influence of Computer Vision and IoT for Pipeline Inspection-A Review," 2019 International Conference on Computational Intelligence in Data Science (ICCIDS), Chennai, India, 2019, pp. 1-6, doi: 10.1109/ICCIDS.2019.8862109
7. R. N. Kirtana, S. Kavitha, B. Bharathi, S. K. Priya, B. Keerthana and K. Kripa, "Smart Irrigation System using Zigbee Technology and Machine Learning Techniques," 2018 International Conference on Intelligent Computing and Communication for Smart World (I2C2SW), Erode, India, 2018, pp. 78-82, DOI: [10.1109/I2C2SW45816.2018.8997121](https://doi.org/10.1109/I2C2SW45816.2018.8997121), Date Added to IEEE Xplore: 13 February 2020.
8. S. Kavitha, S. Mohanavalli, B. Bharathi, "Predicting Learning Behaviour of Online Course Learners' using Hybrid Deep Learning Model", IEEE 6th International Conference on MOOCs, Technology and Innovation in Education, MITE 2018 at MLR Institute of Technology, Hyderabad, 29-30 November 2018, pp.98-102. DOI: [10.1109/MITE.2018.8747136](https://doi.org/10.1109/MITE.2018.8747136), ISBN: 978-1-5386-5968-7
9. Kavitha S, Nandhinee P R, Harshana S, Jahnavi Srividya S and Harrinei K, "ImageCLEF 2019: A 2D Convolutional Neural Network Approach for Severity Scoring of Lung Tuberculosis using CT Images", CLEF 2019, pp: 1-10, Online version: <http://ceur-ws.org/Vol-2380/>.

10. S. Poornima, S. Kavitha, S. Mohanavalli, and N. Sripriya, "*Detection and classification of diseases in plants using image processing and machine learning techniques*", AIP Conference Proceedings 2095, 030018 (2019); <https://doi.org/10.1063/1.5097529> Published Online: 09 April 2019
11. J. Mary Hanna Priyadharshini, S. Kavitha, and B. Bharathi, "*Comparative analysis of multilayer backpropagation and multi-channel deep convolutional neural network for human activity recognition*", AIP Conference Proceedings 2095, 030014 (2019); <https://doi.org/10.1063/1.5097525> Published Online: 09 April 2019
12. Bharathi B, Kavitha S and Suga Priya S, "*Bilingual speech recognition system for isolated words using deep neural network*", International Conference on Computer, Communication, and Signal Processing (ICCCSP - 2018), SSN College of Engineering, Feb 22-23, 2018, Published in **IEEE Xplore** (Scopus)
13. Saranya S, Bharathi B and Kavitha S, "*An approach to detect replay attack in automatic speaker verification system*", International Conference on Computer, Communication, and Signal Processing (ICCCSP - 2018), SSN College of Engineering, Feb 22-23, 2018, Published in **IEEE Xplore** (Scopus)
14. Kavitha S., Bharathi B., Pravish S., Purushothaman S.S., "*Brain Visual State Classification of fMRI Data Using Fuzzy Support Vector Machine*", International conference on 2nd International Conference on Advanced Computing and Intelligent Engineering 23-25 November, 2017, Central University of Rajasthan, Ajmer, India, Published In: Panigrahi C., Pujari A., Misra S., Pati B., Li KC. (eds) Progress in Advanced Computing and Intelligent Engineering. Advances in Intelligent Systems and Computing, vol 714. Springer, Singapore, First Online: 10 July 2018, [https://doi.org/10.1007/978-981-13-0224-4\\_15](https://doi.org/10.1007/978-981-13-0224-4_15) (Scopus)
15. Bharathi B, Kavitha S, Shashaank D S, Priyanka S and Sriram V, "*Speech Recognition based Chess System for Visually Challenged*", International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS 2017), SKR Engineering College, Poonamallee, August 1-2, 2017, Published in **IEEE Xplore**, (Scopus)
16. J Mary Hanna Priyadharshini, S Kavitha and B, Bharathi, "*Classification and Analysis of Human Activities*", IEEE International Conference on Communication and Signal Processing (ICCSP 2017), April 6-8, 2017, Published in **IEEE Xplore**(Scopus)
17. Kavitha S, Mohana Priya K and Bharathi B, "*Brain tumor types and grades classification based on statistical feature set using support vector machine*", 10<sup>th</sup> IEEE International Conference on Intelligent Systems and Control (ISCO 2016), pp: 412-419, January 7-8, 2016. Published in **IEEE Xplore**(Scopus)
18. Kavitha S, Mohana Priya K and Bharathi B, "*Speaker verification in a noisy environment by enhancing the speech signal using various approaches of spectral subtraction*", 10<sup>th</sup> IEEE International Conference on Intelligent Systems and Control (ISCO 2016), pp: 412-419, January 7-8, 2016, Published in **IEEE Xplore**(Scopus)