

# Papers Publications

## Papers Published at International /National Journals

1. Anupama G. Phakatkar, Sayali Sarf, "Detection of Credit Card Fraud using a Hybrid Ensemble Model", International Journal of Advanced Computer Science and Applications(IJACSA), 13(9), 2022. (Scopus)
2. Anupama D. Dondekar, Balwant A. Sonkamble, "Performance Analysis Of Color And Texture Feature Extraction Techniques For Images, GIS Science Journal, Vol. 8, No. 12, 2021, pp. 590-598, ISSN No. 1869-9391, (UGC)
3. Kalyani C. Waghmare, Balwant A. Sonkamble, "An Algorithm to Detect End Point of Indian Music Audio Samples," GIS Science Journal, Vol. 8, No. 12, 2021, pp. 590-598, ISSN No. 1869-9391, (UGC)
4. Kalyani c Waghmare, Balwant a Sonkamble, "Music Classification Using Association Rule and K Nearest Neighbor," Journal of Engineering Science and Technology, Vol. 16, No. 4, August 21, pp. 2876-2887, ISSN: 1823-4690, (Scopus, Web of Science)
5. Kalyani C. Waghmare, Balwant A. Sonkamble, "Modified K-Nearest Neighbor algorithm with Variant K values," International Journal of Advanced Computer Science and Applications (IJACSA), Vol. 11, No. 10, Oct.2020, pp.220-224. ISSN: 2156-5570 (Online) ISSN: 2158-107X (Print) (Scopus)
6. Anupama Dondekar and Balwant Sonkamble, "Image Tag Recommendation based on Ranked Categorical Nearest Neighbors and Weighted Tag Features," Advances in Science, Technology and Engineering Systems Journal (ASTESJ), Vol. 5, No. 6, 2020, pp. 1381-1386. (ISSN: 2415-6698, DOI: 10.25046/aj0506166) (Scopus)
7. Kalyani C. Waghmare, Balwant A. Sonkamble, "Machine Learning Algorithms for Indian Music Classification Based on Raga Framework," International Journal of Innovative Technology and Exploring Engineering (IJITEE), Vol. 9, Issue 11, Sept. 2020, pp. 130-134. ISSN 2278-3075 (Online) (Scopus)
8. Anupama Dondekar and Balwant Sonkamble, "Harmonic Mean based Classification of Images using Weighted Nearest Neighbor for Tagging," International Journal of Advanced Computer Science and Applications (IJACSA), Vol. 11, No 11, 2020, pp. 240-244. (ISSN: 2156-5570, Web of Science Core Collection: Emerging Sources Citation Index, doi:/10.14569/IJACSA.2020. 0111131) (Scopus, Web of Science)

9. Kalyani C. Waghmare, Balwant A. Sonkamble, "Timbre with Note based features for improving performance of Music Classification," International Journal of Advanced Science and Technology, Vol. 29, No. 3, June 2020, pp. 10328-10338, ISSN: 2005-4238 (Print), ISSN: 2207-6360 (Online) (Scopus)
10. Anupama Dondekar, Balwant Sonkamble, "Hybrid Feature based Classification of Images using Supervised Methods for Tag Recommendation," International Journal of Innovative Technology and Exploring Engineering (IJITEE), Vol. 9, No. 11, 2020, pp. 135-138. (ISSN 2278-3075) (Scopus)
11. Anupama Dondekar, Balwant Sonkamble, "Tag-based Image Retrieval using Hybrid Visual-Tag Feature Extraction Method," International Journal of Advanced Science and Technology (IJAST), Vol. 29, No. 4, 2020, pp. 5931 - 5940. (ISSN: 2207-6360, (Scopus)
12. Kalyani C. Waghmare, Balwant A. Sonkamble, "Raga Identification Techniques for Classifying Indian Classical Music: A Survey," International Journal of Signal Processing Systems, Vol. 5, No.4, December 2017, pp. 130-135 (IJSPS, ISSN: 2315-4535)
13. Phadtare Saurabh, Balwant Sonkamble, "Greedy Algorithm for Hand Drawn Object Recognition using BPMN," International Journal of Science and Research (IJSR), Volume 6 Issue 7, July 2017, pp.615-619, ISSN (Online): 2319-7064.
14. Vishakha Gaikwad, Balwant A. Sonkamble, "Analysis and Classification of Vehicle using KNN and Decision Tree," International Journal of Advanced Research in Computer Science Volume 6, No. 2, March-April 2015, pp. 152-156, ISBN: 0976-5697.
15. Umesh B. Kodgule, B A. Sonkamble, "Discrete Wavelet Transform based Fractal Image Compression using Parallel Approach," International Journal of Computer Applications, Volume 122, No.16, pp. 18-22 July 2015, ISBN: 0975- 8887.
16. Vishakha Gaikwad, Balwant A. Sonkamble, "Vehicle Classification by Lane Allowance," International Journal of Advanced Computer Research (ISSN (Print): 2249-7277 ISSN (Online): 2277-7970) Volume-4 Number-4 Issue-17 December-2014, pp 928-933.
17. Vitthal Manekar, Kalyani Waghmare, " Intrusion detection system using support vector machine (SVM) and particle swarm optimization (PSO)," International Journal of Advanced Computer Research, Volume 4, No.3, 2014, pp.808-812,ISSN (print): 2249-7277.
18. Yogita B Bhavsar, Kalyani C Waghmare, "Intrusion detection system using data mining technique: Support vector machine," International Journal of Emerging Technology and Advanced Engineering, Vol.3, No.3, 2013, pp. 581-586, ISSN 2250-2459.

19. Balwant A. Sonkamble and D. D. Doye, "Speech Recognition using Vector Quantization through Modified K-means LBG Algorithm," *Journal of Computer Engineering and Intelligent Systems*, Vol. 3, No. 7, July 2012, pp. 137-144.
20. Balwant A. Sonkamble and D. D. Doye, "Hidden Markov Model for Speech Recognition Using Modified Forward-Backward Re-estimation Algorithm," *International Journal of Computer Science Issues*, Vol. 9, No. 4, July 2012, pp. 242-247.
21. Balwant A. Sonkamble and D. D. Doye, "A Novel Linear-Polynomial Kernel to Construct Support Vector Machines for Speech Recognition," *Journal of Computer Science*, Vol. 7, No. 7, July 2011, pp. 991-996.
22. Sulochana Sonkamble, Dr. Ravindra Thool and Balwant Sonkamble, "Survey of Biometric Recognition Systems and their Applications," *Journal of Theoretical and Applied Information Technology*, Vol. 11 No.1, P. No. 45-51, 2010. ISSN: 19928645 EISSN: 18173195.

### **Papers Published at International Conferences**

1. Prakash D Bhise, Balwant A Sonkamble, "Analyzing Human gait and posture using view-invariant and discriminative feature for person classification," 2021 26th International Conference on Automation and Computing (ICAC), Portsmouth, United Kingdom, 2-4 Sept. 2021, DOI: 10.23919/ICAC50006.2021.9594273
2. Hitendra Khairnar, Balwant A. Sonkamble, "Review of Challenges for Short Term Traffic Forecasting," First Doctoral Symposium on Natural Computing Research (DSNCR 2020), Springer, International Federation for Information Processing, August 8, 2021, pp. 293-300, ISBN 978-981-334- 072-5(Scopus, Springer)
3. Hitendra Khairnar and Balwant A. Sonkamble, "Predicting traffic path recommendation using Spatiotemporal Graph Convolutional Neural Network," Proceedings of the 6th International Congress on Information and Communication Technology (ICICT 2021), London, UK, 25-26 Feb'21, pp. 46, <https://icict.sched.com/list/descriptions/>, ISBN: 2194-5357(Scopus)
4. Jayshree Ghorpade and Balwant A. Sonkamble, "Effective Feature Selection using Ensemble Techniques and Genetic Algorithm," Proceedings of the 6th International Conference on Information and Communication Technology, ICICT 2021- LONDON, UK, 25-26 Feb'21, pp.46, <https://icict.sched.com/list/descriptions/>, ISBN: 2194-5357(Scopus)

5. Hitendra Khairnar and Balwant A. Sonkamble, "Aggregated Time Series based Vehicular Traffic Path Recommendation," 5th International conference on Computer and Communication Systems (ICCCS2020), Shanghai, China, May 15-18, 2020, IEEE ISBN:978- 1-7281-6136-5 doi: 10.1109/ICCCS49078.2020.9118575(Scopus)
6. Jayshree Ghorpade and Balwant A. Sonkamble, "Predictive Analysis of Heterogeneous Data – Techniques & Tools," Proceedings of the 2020 5th IEEE International Conference on Computer and Communication Systems (ICCCS), Shanghai, China, 2020, pp. 40-44, ISBN: 978-1-7281-6135-8 doi: 10.1109/ICCCS49078.2020.9118578. (Scopus)
7. Kalyani C. Waghmare, Balwant A. Sonkamble, "Analyzing acoustics of Indian Music audio signal using Timbre and Pitch Features for Raga Identification," Proceedings of the 2019 3rd International Conference on Imaging, Signal Processing and Communication (ICISPC 2019), Singapore, July 27-29, 2019, pp. 42-46, ISBN:978-1-7281-3662-2 (Scopus)
8. Anupama Dondekar and Balwant Sonkamble, "Analysis of Flickr Images using Feature Extraction Techniques," Proceedings of the 2019 IEEE 4th International Conference on Computer and Communication Systems, Singapore, February 23-25, 2019, pp. 278-282. ISBN:978-1-7281-1323-4 (Scopus)
9. Kalyani C. Waghmare and Balwant A. Sonkamble, "Raga Identification Techniques for Classifying Indian Classical Music: A Survey," Proceedings of the 3rd International Conference on Signal Processing (ICOSP), Florence, Italy, Oct. 23<sup>rd</sup> - 25<sup>th</sup>, 2017, pp. 130-135., ISSN: 2315-4535) International Journal of Signal Processing Systems (IJSPPS, ISSN: 2315-4535) (Scopus)
10. Anupama Dondekar and Balwant Sonkamble, "Tag Recommendation Techniques for Images: A Survey," Proceedings of the 3<sup>rd</sup> International Conference on Signal Processing (ICOSP 2017), Florence, Italy, December 2017, pp. 116-122, (DOI: 10.18178/ijspss.5.4.116-122)
11. Balwant A. Sonkamble and D. D. Doye, "Use of Support Vector Machines Through Linear-Polynomial (LP) Kernel for Speech Recognition," Proceedings of the International Conference on Advances in Mobile Network, Communication and its Applications-MNCApps 2012, August 01-02, 2012, Bangalore, India, pp.46-49. ISBN: 978-1-4673-1869-3. (Scopus)
12. Aamir Nizam Ansari, Navada Arundhati, Agarwal Sanchit, Patil Siddharth and Sonkamble Balwant A., "Automation of attendance system using RFID, biometrics, GSM Modem with .Net framework," Proceedings of the International Conference on

- Multimedia Technology (ICMT-2011), Hangzhou, China, 26-28 July 2011, pp. 2976-2979, 2011 DOI: 10.1109/ ICMT.2011.6002032, ISBN: 978-1-61284-771-9.
13. Arundhati Navada, Aamir Nizam Ansari, Siddharth Patil and Balwant A. Sonkamble, "Overview of use of decision tree algorithms in machine learning," IEEE Control and System Graduate Research Colloquium (ICSGRC), 2011, Shah Alam, Malaysia, 27-28 June 2011, Pages 37 – 42, ISBN: 978-1-4577-0337-9.
  14. Balwant A. Sonkamble, D. D. Doye and Sulochana Sonkamble, "An Efficient use of Support Vector Machines for Speech Signal Classification," Proceedings of the 8th WSEAS International Conference on Computational Intelligence, Man-Machine Systems and Cybernetics (CIMMACS '09) at Puerto De La Cruz, Tenerife, Canary Islands, Spain, during December 14-16, 2009, pp.117-120, ISBN: 978-960-474-144-1, ISSN:1790-5117. (Scopus)
  15. Sulochana Sonkamble, Dr. Ravindra Thool and Balwant A. Sonkamble, "An Effective Machine-Vision System for Information Security and Privacy using Iris Biometrics," Proceeding of the 12th World Multi-Conference on Systemic, Cybernetics and Informatics (WMSCI 2008), Orlando, USA, June 29th to July 2nd, 2008. ISBN 978-1-934272-31-2. (Scopus)
  16. Balwant A. Sonkamble and D. D. Doye, "An Overview of Speech Recognition System based on the Support Vector Machines," Proceeding of the International Conference on Computer and Communication Engineering, Kuala Lumpur, Malaysia, Vol. 2, May 13-15, 2008, pp.768-771. (Scopus)
  17. M. Emmanuel, Dr. Ramesh Babu, G. P. Potdar, B. A. Sonkamble and Praveen Game, "Content-based medical Image Retrieval," Proceeding of the IET-UK International Conference on Information and Communication Technology in Electrical Sciences (ICTES 2007), Chennai, Tamilnadu, India 20-22 Dec. 2007, pp 712 - 717, ISSN: 0537-9989. (Scopus)
  18. Balwant A. Sonkamble, Sulochana Sonkamble, "Speech Recognition using Template Approach," Proceedings of the International Conference on Advances in Computer Vision and Information Technology (ACVIT-2007), Aurangabad, 28-30 Nov. 2007, ISBN 978-81-89866-74-7. (Scopus)
  19. Balwant A. Sonkamble, Sulochana Sonkamble, Girish Potdar and M. Emmanuel, "Spoken Word Recognition for Noisy Environment," Proceedings of the International Conference on Modeling and Simulation (CITICOMS-2007), Coimbatore, 27-29 August 2007, ISBN. No. 81-8424-218-2.

20. M. Emmanuel, Dr. Ramesh Babu, G. P. Potdar, B. A. Sonkamble, Praveen Game, "Content-based M-Image Retrieval System," Proceedings of the International Conference on Advances in Manufacturing & Technology Management (ICAMTM-2007), Thane, 18-20, January 07, ISBN: 978-1-4244-4792-3. (Scopus)
21. Balwant A. Sonkamble, Sulochana Sonkamble, "Isolated Word Speech Recognition for the Remotely Spoken Digits," Proceedings of the International Conference PICA-2006, Nagpur, 11-14 July 2006.
22. M. Emmanuel, Dr. Ramesh Babu, G. P. Potdar, B. A. Sonkamble and Praveen Game, "An Overview of Content-based Medical Image Retrieval System," National Conference (ICIS'07), Chennai on January 19th-20th, 2007. (Scopus)
23. Balwant A. Sonkamble and Sulochana Sonkamble, "Artificial Neural Network Based Speech Recognition," National Conference on Information and Communication Technology- NCICT-2006, Mumbai, 24-26 February 2006.
24. Balwant A. Sonkamble and Sulochana Sonkamble, "Recognition of Remote Phonetic Numerical Patterns," National Level Conference (TSYGECA-06), Aurangabad, 23-24 January, 06, ISBN 975-00803-2-7
25. Sulochana Sonkamble and Balwant A. Sonkamble, "Artificial Neural Network used to control the temperature of a System," National Conference on Sun Rising Technologies- NCSRT-2005, Thane, 18-19 November 2005.