



Department of Computer Science and Engineering
Manonmaniam Sundaranar University, Tirunelveli-12



Dr.G.Murugeswari B.E., M.Tech., Ph.D.
Associate Professor

I. Academic Details

Area of Specialization	Digital Image Processing Bio-Informatics Data Mining
Teaching Experience	14 Years
Research Experience	9 Years
Ph.D. Guidance	Completed :2, Submitted:3, Ongoing :3

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Programme(s)	Organized	Attended
Workshops	5	20
Seminar	10	24

NPTEL Online Certifications

1. The Joy of Computing using Python(Elite)
2. Designing Learner Centric MOOCs (Elite)

Membership in Professional Bodies

Member, International Association of Engineers (IAENG)

Other Academic Responsibilities

1. Academic Council Member, St. Mary's College , Tuticorin
2. Planning Board Member , Sarah Tucker College for Women, Tirunelveli
3. University Representative, Wavoo Wajeetha College of Arts and Science, Kayalpatnam
4. Member, Board of Studies, Dept. of Computer Science and Engg., MS University

II. Research Details

Research Publications

Publications	No. of Publications
Journals	24
Conferences	13

Citations and Indexing

Google scholar	
Citations	46
h-index	5

Online Programmes Attended

1. AICTE approved Faculty Development Programme (FDP101X) on Foundation Program in ICT for Education conducted by IIT Bombay from August 3, 2017 to September 7, 2017.
2. AICTE approved Faculty Development Programme (FDP201X) on Pedagogy for Online and Blended Teaching-Learning Process conducted by IIT Bombay from September 14, 2017 to October 12, 2017
3. C2CSS1xA18: Soft Skills,under the 'College to Corporate' programme, from 06 September 2018 to 04 October 2018 by IIT Bombay.
4. C2CWC1xA18: Workplace Communication from 04 October 2018 to 12 November 2018 by IIT Bombay.
5. C2CEN1xS19 English for Oral Communicationfrom 19 February 2019 to 17 April 2019 by IIT Bombay.

Recent Publications

1. M.Muthu Lakshmi, G.Murugeswari, "A Survey on Computational Algorithms for Biological Data Analysis", International Journal of Computer Sciences and Engineering, Vol.06, Issue.04, pp.154-161, 2018
2. Joseph Nisha & Ramya A, Murugeswari G & Murugan D. (2019). Adaptive multi-threshold based de-noising filter for medical image applications. International Journal of Computational Vision and Robotics. 9. 272. 10.1504/IJCVR.2019.10020654.
3. Jency Rajakumari J and Murugeswari G , "A Review of Watermarking Techniques for Medical Images ", TEST Engineering and Management , ISSN:0193-4120, Volume : 83, Page No. 11834-11841,Publication Issue : May-June 2020.
4. Anbu T, Milton Joe M and Murugeswari G, " A Comprehensive survey of detecting tampered images and localization of the tampered region", Multimedia Tools and Applications – Springer , 16 September 2020
5. Sahaya Arthy A and Murugeswari G, "Comparative Analysis of Heart Disease Prediction Techniques Using Association Rule Mining", International Journal of Grid and Distributed Computing Vol. 13, No. 2, (2020), pp. 857 – 867
6. Vijaya Maheswari M and Murugeswari G, "Empirical Evaluation of Retinal Vessel Segmentation Techniques", Journal of Computational and Theoretical Nanoscience Vol. 17, 1-7, 2020
7. VijayaMaheswari M and Murugeswari G, " A Novel Multi-Orientation Kernel for Retina Vessel Detection", Turkish Journal of Computer and Mathematics Education Vol.12 No.9 (2021), 370-382
8. Anbu T, Milton Joe M and Murugeswari G, "A Comprehensive Survey of Detection of Tampered Video and Localization of Tampered Frame", Wireless Personal Communications (Springer Journal) <https://doi.org/10.1007/s11277-021-09227-z>, IF 1.6
9. Muthulakshmi M, Murugeswari G, "A Novel Feature extraction from Genome sequence for Taxonomic classification of living organisms", Turkish Journal of Mathematics and Computer Education, ISSN (online): 1309-4653 | vol. 12, no. 2, pp. 1436 -1451, (2021), (Indexed in SCOPUS, Impact Factor : 0.148
10. Muthulakshmi. M, Murugeswari G, and Raja. S.P, "An empirical evaluation of compression techniques for Genome sequences", International Journal of Biometrics Inderscience Publishers, ISSN (print): 1755-8301 ISSN (online): 1755-831X, DOI: 10.1504/IJBM.2021.10038944, (Indexed in SCOPUS, Impact Factor: 0.78
11. Muthulakshmi. M, Murugeswari. G, "A Novel Frequency based Feature Extraction Technique for Classification of Corona virus Genome and Discovery of COVID-19 Repeat Pattern", Brazilian Archives of Biology and Technology, Instituto de Tecnologia do Paran (Brazil) (Accepted for Publication), ISSN (print): 1516-8913 Rajakumari J, J., & Murugeswari G, M. G. (2022). An efficient watermarking technique using contourlet transform for medical images. International Journal of Health Sciences, 6(S7), 47293-47309 <https://doi.org/10.53730/ijhs.v6nS7.13117>
12. A. Sahaya Arthy and G.Murugeswari , "A Novel Pulse Coupled Genetic Particle Swarm Optimization Algorithm with Neural Networkclassifier for Heart Disease Prediction" International Journal of Mechanical Engineering, ISSN: 0974-5823, Vol. 7 No. 2 February, 2022
13. Anbu, T., M. Milton Joe, and G. Murugeswari. "A Comprehensive Survey of Detection of Tampered Video and Localization of Tampered Frame." Wireless Personal Communications (2022): 1-34. <https://doi.org/10.1007/s11277-021-09227-z>
14. M Vijaya Maheswari, G Murugeswari, K Aravind Kumar, M Muthulakshmi, J Jency Rajakumari "A Novel Clip limit estimation technique for blood vessel segmentation and OD/OS classification technique for retina images" accepted by Brazilian Archives of Biology and Technology - Manuscript ID BABT-2022-0817.R1. Yet to be published