

## PUBLICATIONS LIST

1. M. Navaneetha Krishnan, S. Suresh, S.C. Vettivel, **C. Emmy Prema**, J. Arun P. Thirunamakodi (2021), 'Image texture description, surface-grains structure morphology and prediction of wear parameters for Mg/B4C composites using Response Surface Methodology', *Metals and Materials International*, (Springer: Impact Factor: 3.642). H-index: 43. DOI:[10.1007/s12666-020-02123-3](https://doi.org/10.1007/s12666-020-02123-3).
2. J. Arun, T.G. Ansalam Raj, K.E. Reby Roy, S. Suresh, **C. Emmy Prema**, (2021), 'A novel automatic image intensity analysis using machine learning algorithms for the characterization of tensile fracture surface of AA8011-B4C nano composite', *Transactions of the Indian Institute of Metals*, (Accepted) (Springer: Impact Factor: 1.499). H-index: 28.
3. **C. Emmy Prema**, Suresh, S, & M. Navaneetha Krishnan (2021), 'A Novel Efficient Smoke Detection algorithm using Co-occurrence of LBP and Cooccurrence of HDLBP Texture Descriptors', *Fire Technology*, (Accepted) (Springer: Impact factor: 2.239). H-index: 31.
4. **C. Emmy Prema**, S. Jerald Jeba Kumar, L. Femila, S.A. Praylin Selva Blessy, (2021), 'Co-occurrence of Local Gradient Patterns: A feature descriptor for the analysis of smoke texture', *Suraj Punj Journal For Multidisciplinary Research*, vol. 11 Issue. 4, pp. 141-147.
5. S.A.PraylinSelva Blessy, **C. Emmy Prema**, S. Jerald Jeba Kumar, L.Femila, (2021), 'A novel approach for Brain Tumor Segmentation based on fuzzy clustering technique', *Suraj Punj Journal For Multidisciplinary Research*, vol. 11 Issue. 4, pp. 123-129.
6. S. Jerald Jeba Kumar, S.A.Praylin Selva Blessy, L.Femila, **C. Emmy Prema**, (2021), 'Extraction of Blood Vascular Network for Development of an Automated Diabetic Retinopathy Screening System', *Suraj Punj Journal For Multidisciplinary Research*, vol. 11 Issue. 4, pp. 148-153.
7. M. Navaneetha Krishnan, S. Suresh, S.C. Vettivel, **C. Emmy Prema**, C.P. Jesuthanam (2020), 'A Novel Image Processing Technique for Analyzing Wear Worn Surface Roughness and Corrosion Behavior of Sintered Mg/B4C Composites', *Transactions of the Indian Institute of Metals*, <https://doi.org/10.1007/s12666-020-02123-3>. (Springer: Impact Factor: 1.499. H-index: 28.
8. **C. Emmy Prema**, S. Suresh, G. Ramanan, and M. Sivaraj, (2020), 'Characterization, corrosion and failure strength analysis of Al7075 influenced with B4C and Nano-Al2O3 composite using online acoustic emission', *Materials Research Express*, vol. 7 (2020) 016524. <https://doi.org/10.1088/2053-1591/ab6257> (IOP Publishing: Impact Factor: 1.929). H-index: 27.
9. A. Radha, S. Suresh, G. Ramanan, V. Mohanave and **C. Emmy Prema**, (2019), 'Processing and characterization of mechanical and wear behavior of Al7075 reinforced with B4C and nano graphene hybrid composite', *Materials Research*

*Express*, vol. 6 (2019) 1265c5. <https://doi.org/10.1088/2053-1591/ab6263> (IOP Publishing: Impact Factor: 1.929). H-index: 27.

10. **C. Emmy Prema**, S. Suresh, (2019), 'Local Binary Pattern based Hybrid Texture Descriptors for the Classification of Smoke Images, *International Journal of Engineering Research & Technology*, vol. 7 (13), pp. 1-6.
11. **C. Emmy Prema**, Vinsley, S.S, & Suresh, S, (2018), 'Efficient Flame Detection Based on Static and Dynamic Texture Analysis in Forest Fire Detection', ***Fire Technology***, vol. 54, pp. 255-288. (Springer: Impact factor: 2.239). H-index: 31.
12. **C. Emmy Prema**, Vinsley, S.S, & Suresh, S, (2016), 'Multi Feature analysis of smoke in YUV color space for early forest fire detection', ***Fire Technology***, vol. 52, no. 5, pp. 1319-1342. (Springer: Impact factor: 2.239). H-index: 31.
13. **C. Emmy Prema et al** (2019), 'Appreciation to Fire Technology Reviewers of 2018, ***Fire Technology***, vol. 55, pp. 383–386, (Springer: Impact factor: 1.483). H-index: 31.
14. L.Femila, Anu Jemila G.R, S.Jerald Jeba Kumar, **C. Emmy Prema**, S.A.Praylin Selva Blessy, (2021), 'Co-Operative Sensing Broadcast System For Filling The Sensing Holes, ***Suraj Punj Journal For Multidisciplinary Research***, vol. 11 Issue. 4, pp. 109-118.
15. Suresh, S, Shenbaga Vinayaga Moorthi, N & **Emmy Prema, C** (2014), 'Tribological and mechanical behavior study of Al6061-TiB2 metal matrix composites using stir casting', ***Advanced Materials Research***, vol. 984-985, pp. 200-206 (Trans Tech Publications : Impact factor: 0.158). H-index:28
16. **C. Emmy Prema**, Vinsley, S.S, & Shyam Jegadeesh, J, (2014), 'Efficient colour based fire pixel classification using image processing', ***Advanced Materials Research***, vol. Vol. 626 (2014) pp 52-57 (Trans Tech Publications : Impact factor: 0.158). H-index:28
17. D. Mahiba, **C. Emmy Prema**, & Vinsley, S.S, (2015), 'Wavelet Based Flame Flicker Analysis For Fire Detection, ***International Journal of Applied Engineering Research***, ISSN 0973-4562 Vol. 10 No.2 (2015) pp. 1407-1411.
18. **C. Emmy Prema & Vinsley** (2016), 'Performance analysis of statistical parameter based fire pixel segmentation in various color spaces'. *Asian Journal of Information Technology*, Vol. 15(12) pp. 2023-2036.
19. A. Jinisha, **C. Emmy Prema**, (2017). "Detection of Melanoma using Dermoscopic Images and its various features" *Proceedings of the International Conference on Advanced Innovations in Engineering and Technology at Rohini college of Engineering and Technology, Anjugramam, Tamilnadu, India, on 15-16<sup>th</sup> Feb 2017.*
20. R. Anuja, **C. Emmy Prema**, (2018). "Facial Expression Recognition using Difference Based Local Gradient Pattern" *Proceedings of the International Conference on*

Energy Efficient Technologies for Sustainability (ICEETS' 18) at St. Xavier's Catholic college of Engineering, Chunkankadai, Nagercoil Tamilnadu, India, on 5-7, April 2018.

21. S. Silvia, C. Emmy Prema, (2018). "Road Side Vegetation Classification using GLRL and CLBP Technique " Proceedings of the International Conference on Energy Efficient Technologies for Sustainability (ICEETS' 18) at St. Xavier's Catholic college of Engineering, Chunkankadai, Nagercoil Tamilnadu, India, on 5-7, April 2018.
22. R. Anuja, **C. Emmy Prema**, (2018). "Facial Expression Recognition using Local Gabor Binary pattern with Histogram of Oriented Gradients" Proceedings of the National Conference on Advanced Communication and Electronic Systems (NCACES' 18) at Rohini college of Engineering and Technology, Anjugramam, Tamilnadu, India, on 16th March 2018.
23. S. Silvia, C. Emmy Prema, (2018). "Image based roadside vegetation classification using multiple classifier fusion technique" Proceedings of the National Conference on Advanced Communication and Electronic Systems (NCACES' 18) at Rohini college of Engineering and Technology, Anjugramam, Tamilnadu, India, on 16th March 2018.