

Selected Peer-Reviewed Publications (**h-index: 10, Total Citations: 384**) (as of May 2026)

Journal Papers

1. **P. C. Tripathi**, S. Tabakhi, M. N. Suvon, S. Alabed, A. J. Swift, S. Zhou, and H. Lu (2026), "Interpretable Multimodal Learning for Cardiovascular Hemodynamics Assessment" **IEEE Transactions on Medical Imaging** (Accepted). (IF: 10.0)
2. **P. C. Tripathi** and S. Bag (2024), "An attention-guided deep learning framework for segmentation and grading of glioma using 3D MRI scans," **IEEE Transactions on Computational Biology and Bioinformatics**, vol. 20(3), pp. 1890–1904. (IF: 4.5)
3. **P. C. Tripathi** and S. Bag (2020), "CNN-DMRI: A Convolutional Neural Network for Denoising of Magnetic Resonance Images," **Pattern Recognition Letters**, vol. 135, pp. 57–63. (IF: 5.1)
4. **P. C. Tripathi** and S. Bag (2022), "A Computer-Aided Grading of Glioma Tumor using Deep Residual Networks Fusion," **Computer Methods and Programs in Biomedicine**, vol. 215, article no. 106597. (IF: 6.1)
5. **P. C. Tripathi** and S. Bag (2020), "Segmentation of brain magnetic resonance images using a novel fuzzy clustering based method," **IET Image Processing**, vol. 14(15), pp. 3705–3717. (IF: 2.3)
6. K. Sarkar, S. Bag, and **P. C. Tripathi** (2024), "Noise aware content-noise complementary GAN with local and global discrimination for low-dose CT denoising," **Neurocomputing**, vol. 582, article no. 127473. (IF: 6.0)
7. A. Gupta, N. Saini, and **P. C. Tripathi** (2026), "Leveraging Semantic Fusion and Generative Reasoning using Large Language Models for Context-Aware and Explainable Sexism Detection," **Engineering Applications of Artificial Intelligence**, vol. 177 (2), article no. 114926. (IF: 8.0)

Conference Papers

1. M. N. I. Suvon, **P. C. Tripathi**, W. Fan, S. Zhou, X. Liu S. Alabed, V. Osmani, A. Swift, C. Chen and H. Lu. (2024), "Multimodal Variational Autoencoder for Low-cost Cardiac Hemodynamics Instability Detection," in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI 24)*, pp. 296–306. (Core rank A)
2. **P. C. Tripathi**, M. N. I. Suvon, L. Schobs, S. Zhou, S. Alabed, A. Swift, and H. Lu. (2023), "Tensor-based Multimodal Learning for Prediction of Pulmonary Arterial Wedge Pressure from Cardiac MRI," in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI 23)*, pp. 2064–215. (Core rank A)
3. M. N. I. Suvon, **P. C. Tripathi**, S. Alabed, A. Swift, and H. Lu. (2022), "Multimodal Learning for Predicting Mortality in Patients with Pulmonary Arterial Hypertension," in *Proceedings of the 2022 IEEE International Conference on Bioinformatics and Biomedicine (BIBM)*, pp. 2704–2710. (Core rank B)
4. **P. C. Tripathi**, and S. Bag (2021), "A Dilated Convolution-based Denoising Network for Magnetic Resonance Images," in *Proceedings of 2021 International Joint Conference on Neural Networks (IJCNN)*, pp. 1–8. (Core rank A)

Book Chapter

1. R. Pal and **P. C. Tripathi** (2015), Content-aware image retargeting: A survey. In R. Pal (Ed.), *Innovative research in attention modeling and computer vision applications* (pp. 115–13), IGI Global.