



Sharmistha Puhan, M.Tech.

Designation : Assistant Professor

Department : Department of Computer Science and Engineering
(JOINED THE INSTITUTE IN 2024)

Contact : 8637253860

Email : sharmistha.puhan@silicon.ac.in

RESEARCH INTERESTS

- ✓ Image and Video Analysis
- ✓ Database System
- ✓ Cloud Computing

Academic Qualifications

Ph. D. in CSE (thesis submitted) under BPUT, Odisha, India

M. Tech in CSE from BPUT, Odisha, India

B.E in CSE from BPUT, Odisha, India

Teaching Experience/Industrial Experience/Research Experience

- ✓ 17 years of teaching Experience

PUBLICATIONS

JOURNAL ARTICLES & CONFERENCE PAPERS

- 1) Sharmistha Puhan, Sambit Kumr Mishra, "Moving object detection in dense fog environment using YOLOv7 framework", Scandinavian Journal of information Systems, 35(1), 455-467, 2023.
- 2) Sharmistha Puhan, Sambit Kumr Mishra, "Detecting Moving Objects in Dense Fog Environment using Fog-Aware-Detection Algorithm and YOLO", Neuro Quantology, 20(22),2864-2873,2022.
- 3) Sharmistha Puhan, Devpriya Panda, Brojo Kishore Mishra,"Energy Efficiency for Cloud Computing Applications: A Survey on The Recent Trends and Future Scopes", IEEE International Conference on Computer Science, Engineering and Applications (IEEE ICCSEA) 13th-14th March 2020.
- 4) Deepak K. Rout, Sharmistha Puhan, "Video Object Detection using Inter-frame Correlation Based Background Subtraction", In: The Proceedings of

IEEE Recent Advances in Intelligent Computational Systems (IEEE RAICS), pp. 167 – 171, Trivandrum, Kerala, India, 2013.

- 5) Deepak Kumar Rout, Sharmistha Puhan. "Video Object Detection in Dynamic Scene using Inter-Frame Correlation based Histogram Approach". International Journal of Computer Applications Published by Foundation of Computer Science, New York, USA, Vol. 82, No. 17, pp. 19-24, November 2013.
- 6) S. Puhan, D. K. Rout, N. K. Kamila "Slow and Fast Moving Object Detection under Illumination Variation Condition", American Journal of Signal Processing, published by Scientific & Academic Publishing, USA, Vol. 3, No. 5, pp. 121-131, December 2013.
- 7) Deepak K. Rout, Sharmistha Puhan, "A Spatio – temporal Framework for Moving Object Detection in Outdoor Scene", CCIS 270, pp. 494-502, Springer-Verlag, Berlin, Heidelberg, 2012.

ANY OTHER

PATENTS PUBLISHED

- 1) "Method and Process to improve the Digital Education System", Indian Patent, Application No: 202221004893A.
- 2) "Digital Authentication Using Bigdata and Cloud Computing", Indian Patent, Application No: 202241042418A.

GLOBAL CERTIFICATIONS

- 1) Microsoft AI-900
 - 2) Microsoft AZ-900
-