



Sharmistha Puhan, M.Tech.

Designation : Assistant Professor

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

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RESEARCH INTERESTS

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

Academic Qualifications

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

M. Tech. (CSE), BPUT, Odisha, India

B.E (CSE), BPUT, Odisha, India

Teaching Experience/Industrial Experience/Research Experience

- ✓ 17 years of teaching experience

PUBLICATIONS

JOURNAL & CONFERENCES

- 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) Title: Method and Process to improve the Digital Education System
Patentee Names: Priyanka Pitale, Puja Shrivastava, Pooja Rathi, Sharmistha Puhan, Suvendu Chandan Nayak, Sasmita Parida
Patent Application Number: 202221004893A
Date of Publication: 04/03/2022
- 2) Title: Digital Authentication Using BigData and Cloud Computing
Patentee Names: Puja Shrivastava, Devpriya Panda, Sharmistha Puhan, Sasmita Parida, Shreela Dash, Sabita Rani Behera
Patent Application Number: 202241042418A
Date of Publication: 29/07/2022

GLOBAL CERTIFICATIONS

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