



**Name:** Prof. Tuhin Utsab Paul

**Designation:** Assistant Professor in IT/Computer Application

**Qualifications:** M.Sc., M.Tech., Ph.D.

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### ***Biographical Sketch***

Dr. Tuhin Utsab Paul is an assistant professor in the Department of IT/Computer Application under the Faculty of Commerce and Management at St. Xavier's University, Kolkata, since 2018. He focuses on the improvement of students' experiences and learning with Information and Computer Tools in the application of management, ecommerce and management information systems.

He completed his M.Sc in Computer and Information System in 2010 and M.Tech in Computer science and Engineering in 2012 from the University of Calcutta. He was awarded Ph.D degree for his Doctoral studies in Computer Science and Engineering from the University of Calcutta in 2020. He is UGC-NET qualified as Lecturer in Computer Science and Application in June, 2012. He is having an experience of working as assistant professor for more than eight years since 2012. His area of research includes Image processing, Algorithms, Data base systems and IOT.

### ***Areas of Specialisation and Research***

His areas of specialisation are Algorithms, Data base systems, IOT, E-commerce, Image Processing. And the research interest lies on the field of Image Processing, Database Systems, IOT.

### ***Teaching Experience***

- Assistant Professor, Department of Computer Science and Engineering, Amity University. From September 2016 – June 2018.
- Assistant Professor, Department of Electronics and Communication Engineering, Institute of Engineering and Management. From September 2012 – August 2016.

## Administrative Responsibility

- Faculty representative for placement in Department of Commerce and Management – Since August 2019
- IQAC – NAAC Working Committee member – Since August 2019
- Website Monitoring Committee Coordinator – Since March 2020
- IT Team member – Since May 2020

## Publications

### Chapter/Article published in Books

- (2017) **“An Analysis of Brain MR Image Segmentation”**, Hybrid Intelligent Techniques for Pattern Analysis and Understanding, Edited by Siddharth Bhattacharya et.al. CRC Press, Taylor & Francis, London. Pp 247-276, ISBN: 13: 978-1-4987-6935-8

### Article published in Peer-reviewed journals

- (2019) **“A New Discrete Wavelet Transform Algorithm Based on Frame Theory and Its Application to Brain MRI Segmentation”**, Journal of Medical Imaging and Health Informatics Vol -9 No.- 2, Pages - 223-234 doi: <https://doi.org/10.1166/jmihi.2019.2589>
- (2016) **“Brain Tumor Texture Analysis – Using Wavelets and Fractals”**, International Journal of Medical Imaging. Vol. 4 (4), Pp. 23-31, ISSN: 2330-8303 doi: 10.11648/j.ijmi.20160404.11
- (2016) **“Technologies in Texture Analysis – A Review”**, British Journal of Applied Science and Technology. Vol.13 (6), Pp. 1-21, ISSN: 2231-0843 doi: 10.9734/BJAST/2016/19082
- (2014) **“A new insight into Wavelet Transforms using the concepts of Frame Theory”**, International Journal of Computers & Technology. Vol.12 (9), Pp. 3860-3874, ISSN: 2277 - 3061 doi: 10.24297/ijct.v12i9.2826
- (2013) **“Segmentation of Brain Tumour from MRI image – Analysis of K-means and DBSCAN Clustering”**, International Journal of Research in Engineering and Science. Vol.1 (1), Pp. 48-57, ISSN: 2320-9356
- (2013) **“Automatic Segmentation of Brain Tumour from Multiple Images of Brain MRI”**, International Journal of Application or Innovation in Engineering & Management . Vol.2 (1), Pp. 240-248, ISSN: 2319 - 4847
- (2012) **“Segmentation of Brain Tumor from Brain MRI Images Reintroducing K–Means with advanced Dual Localization Method”**, International Journal of Engineering Research and Applications. Vol.2 (3), Pp. 226-231, ISSN: 2248-9622
- (2012) **“Segmentation of Brain MRI Image–A Review”**, International Journal of Advanced Research in Computer Science and Software Engineering. Vol.2 (3), Pp. 409- 41, ISSN: 2277 128X