AMRITA ROY CHOWDHURY

Date of Birth: 27.01.1984.
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DESIGNATION

Assistant Professor of Computer Science, Dum Dum Motijheel College, Kolkata-700074.

ACADEMIC BACKGROUND

- M.Tech. (Computer Science and Engineering), West Bengal University of Technology, 2011.
- M.CA., RCC Institute of Information Technology (West Bengal University of Technology), 2009.
- B.Sc. (Mathematics), Lady Brabourne College (University of Calcutta), West Bengal, 2006.

POSITIONS HELD/ HOLDING

- 2016–Present   : Assistant Professor, Dum Dum Motijheel College
- 2011–2016   : Assistant Professor, Academy of Technology, Adi Saptagram

TEACHING INTEREST

- Discrete Mathematical Structure, Formal Language and Automata Theory, Artificial Intelligence, Image Processing and Machine Learning.
- Languages: C, C++, Java, Prolog, Matlab.

RESEARCH PROFILE

Ph.D. Thesis:

Pursuing Ph.D. from Maulana Abul Kalam Azad University of Technology, West Bengal.

PUBLICATIONS:

Journal Paper:

1. **Roy Chowdhury**, **A.**, Chatterjee, T. and Banerjee, S. (2018): A Random Forest classifier-based approach in the detection of abnormalities in the retina. *Medical & Biological Engineering & Computing*, 57(5): 193-203.

2. **Roy Chowdhury**, **A.** and Banerjee, S. (2018): Random Forests in the Classification of Diabetic Retinopathy Retinal Images. *Advanced Computational and Communication Paradigms*, 475: 168-176.

3. Saha, R., **Roy Chowdhury**, **A.**, Banerjee, S. and Chatterjee, T. (2018): Detection of Retinal Abnormalities Using Machine Learning Methodologies/ *Neural Network World*, 28: 457-471.

4. **Roy Chowdhury**, **A.** and Banerjee, S. (2018): Detection of Abnormalities of Retina Due to Diabetic Retinopathy and Age Related macular Degeneration using SVM. *Science Journal of Circuits, Systems and Signal Processing*, 5(1): 1-7.

5. **Roy Chowdhury**, **A.** and Banerjee, S. (2018): Towards an Automated Approach to the Detection of Retinal Abnormalities. *CSI Transaction on ICT (SpringerLink)*, 5(1): 71-78.

6. Saha, R., **Roy Chowdhury**, **A.** and Banerjee, S. (2016): Diabetic Retinopathy Related Lesions Detection and Classification Using Machine Learning Technology. *ICAISC 2016, Part II*, Lecture Notes in Artificial Intelligence (LNAI), 9693: 734-745.

7. **Roy Chowdhury**, **A.**, Saha, R. and Banerjee, S. (2016): Detection of different types of Diabetic Retinopathy and Age related Macular Degeneration. *Computation and Communication Technologies*, pp. 269-279, DOI:10.1515/9783110450101

8. **Roy Chowdhury**, **A.** and Banerjee, S. (2015): Detection of Cotton Wool Spots from Retinal Images using Fuzzy C Means. *International Journal of Computer Applications*, 113(11): 14-17.

9. Banerjee, S. and **Roy Chowdhury**, **A.** (2015): Case Based Reasoning in the Detection of Retinal Abnormalities using Decision trees, *Procedia Computer Science (Elsevier)*, 46: 402-408.