Abdus Salam Azad

CONTACT INFORMATION	Lecturer Department of Computer Science and Engineering Bangladesh University of Engineering and Technology Email: azadsalam2611@gmail.com, azadsalam@cse.buet.ac.bd Homepage: https://sites.google.com/view/azadsalam2611/home
RESEARCH INTERESTS	Natural Language Understanding, Information Retrieval, Image Understanding, Machine Learning, Memetic Algorithms
EDUCATION	**October, 2014 - January, 2017: M. Sc. in Computer Science and Engineering** Department of Computer Science and Engineering (CSE) Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh. CGPA: 4.00 **March, 2009 - June, 2014: B. Sc. in Computer Science and Engineering** Department of Computer Science and Engineering (CSE) Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh. CGPA: 3.95 (Ranked 3rd in a class of 153 students)
PUBLICATIONS	**Abdus Salam Azad**, Md. Monirul Islam, and Saikat Chakroborty. **A Heuristic Initialized Stochastic Memetic Algorithm for MDPVRP with Interdependent Depot Operations.** IEEE Transactions on Cybernetics, January, 2017. **Abdus Salam Azad**, Md.Kamrul Hasan, M.Arif Imtiazur Rahman, Md.Mustafizur Rahman, and Nashid Shahriar. **Exploring the behavior and changing trends of rainfall and temperature using statistical computing techniques.** In Tanvir Islam, Prashant K. Srivastava, Manika Gupta, Xuan Zhu, and Saumitra Mukherjee, editors, Computational Intelligence Techniques in Earth and Environmental Sciences, pages 53-78. Springer Netherlands, 2014.
RESEARCH EXPERIENCE	Master's Thesis with Prof. Md. Monirul Islam on August 2014 - November 2015 **A Heuristic Initialized Stochastic Memetic Algorithm for MDPVRP with Interdependent Depot Operations** Undergraduate Thesis with Prof. Md. Monirul Islam on April 2013 - June 2014 **Diversity Guided Unified Evolutionary Framework for Multi Depot Periodic Vehicle Routing Problem** This work got the best poster-paper award in 1st undergraduate thesis poster presentation, 2014, BUET.
CURRENT PROJECTS	**Multi objective learning to rank for citation recommendation** August 2017 - Present Co-supervisor: Shubhra Kanti Karmaker Santu Supervisor: Prof. Mohammed Eunus Ali **InnerEye: An Automated Tool for Detecting the Extent of Image Editing to Aid Credible Social Interactions** September 2017 - Present Supervisor: Prof. A. B. M. Alim Al Islam

EMPLOYMENT	Lecturer	August 2014 - Present

EMPLOYMENT

Lecturer   August 2014 - Present
Department of Computer Science and Engineering
Bangladesh University of Engineering and Technology
Courses Instructed: Artificial Intelligence, Machine Learning Lab, and Microprocessor & Microcontrollers etc.

COMMUNITY SERVICES

Reviewer
IEEE Transactions on Cybernetics

Organizing Committee Member
WALCOM 2015, NSysS 2015, 2016, 2017

Founding Member
Information and Communication Secretary   September 2011 – November 2013
Engineering Students Association of Bangladesh (ESAB)

SCHOLARSHIPS AND AWARDS

Best poster-paper award: 1st undergraduate thesis poster presentation, 2014, BUET.

1st Prize in Android Application Development Contest arranged by Samsung, Bangladesh 2013

Dean's Honor List, BUET

University Merit Scholarship, BUET

SELECTED PROJECTS

Finding and Describing Images with Sentences
In this study, we inspected some of the state-of-the-art methods on searching images with sentence description and vice versa.

Content Based Image Retrieval
Implementation of a paper on content-based image retrieval with local-tetra patterns.

Machine Learning & Pattern Recognition Projects
Implementation of Decision Tree (ID3), K-Nearest Neighbor, and Naive Bayesian Classifiers, Artificial Neural Networks, Semi-supervised Learning, Ensemble Learning, and K-means & Bisecting K-means Clustering etc.

Please visit my homepage for a complete list.

NON-ACADEMIC PROJECTS

As a faculty of the most renowned engineering university in Bangladesh, I have contributed towards different nationally important projects, e.g., Development of Interactive Digital Textbooks, Testing the Software Installed for Machine Readable Passports of 33 Regional Passport Offices, Bangladesh.

COMPUTER SKILLS

Language: C, C++, Java, Python
Machine Learning Libraries: Scikit-learn, WEKA, Keras, Tensor Flow
Other: R, MatLab, Prolog
Development & Database: Android, Oracle, MySQL, CodeIgniter
Hardware: ATmega32 - Atmel Corporation, Arduino