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	Image Understanding, Natural Language Understanding, Information Retrieval, 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 **A Heuristic Initialized Stochastic Memetic Algorithm for MDPVRP with Interdependent Depot Operations** Undergraduate Thesis with Prof. Md. Monirul Islam on **Diversity Guided Unified Evolutionary Framework for Multi Depot Periodic Vehicle Routing Problem** Winner, 1st Undergraduate Thesis Poster Presentation, 2014, CSE, BUET.
CURRENT PROJECTS	**Multi objective learning to rank for citation recommendation** A multi objective learning to rank algorithm for recommending the most relevant works from the literature given an abstract or, research idea as a query. Co-supervisor: Shubhra Kanti Karmaker Santu Supervisor: Prof. Mohammed Eunus Ali **Machine Comprehension** A graph-traversal based approach for machine comprehension, i.e., answering questions based on a given piece of text.

SELECTED UNDERGRAD & MASTER'S PROJECTS	**Finding and Describing Images with Sentences** In this study, we analyzed 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.
SCHOLARSHIPS AND AWARDS	Winner, 1st Undergraduate Thesis Poster Presentation, 2014, CSE, BUET.
	Winner, Android Application Development Contest, Samsung R&D, Bangladesh, 2013
	Dean's Honor List, BUET
	University Merit Scholarship, BUET
LANGUAGE, LIBRARIES & PLATFORMS	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
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)
EMPLOYMENT	Lecturer August 2014 - Present Department of Computer Science and Engineering Bangladesh University of Engineering and Technology **Courses Instructed:** Artificial Intelligence, Machine Learning, and Microprocessor & Microcontrollers etc.
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.