Pranta Sarker

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Objective

Significant years of healthy professional engagement with teaching and qualification accelerated my vision to build a career as an academician by committing my life to research and conveying knowledge.

Expertise

- **Programming Problem Solving**
  Solved over 600 programming problems on several online judges.
  Profile: `https://www.stopstalk.com/user/profile/prantacse14`
- **Programming Languages**
  C, C++, Java, PHP, Python, and MATLAB
- **Typesetting**
  LaTeX

Language Proficiency

- **International English Language Testing System (IELTS)**
  Overall band score: 6.5 (Listening: 6.5, Reading: 6.5, Speaking: 6.5, Writing: 6.0)

Education

2014–2018 **BSc.(Engineering) in Computer Science**, North East University Bangladesh, Sylhet, Bangladesh. CGPA: 3.75/4.00

- **BSc. Thesis:** "*A Faster Decoding Technique for Huffman Codes Using Adjacent Distance Array,*" under supervision of **Dr. Ahsan Habib**

2010–2012 **Higher Secondary Certificate**, Jalalabad Cantonment Public School and College, Sylhet, Bangladesh. GPA: 5.00/5.00

2005–2010 **School Secondary Certificate**, Sylhet Govt. Pilot High School, Sylhet, Bangladesh. GPA: 5.00/5.00

Research Interest

- Blockchain, security, trust management, data structure, and algorithm.

Publications and dissertations

Journal Article(s)

- **Pranta Sarker** and Mir Lutfur Rahman, "A Huffman Based Short Message Service (SMS) Compression Technique Using Adjacent Distance Array," in *International Journal of Information and Communication Technology*. (The article has been **accepted** and entering Publication Schedule in the Journal.)
- **Pranta Sarker** and Mir Lutfur Rahman, "Method of Adjacent Distance Array Outperforms Conventional Huffman Codes to Decode Bengali Transliterated Text Swiftly," in *International Journal of Computing and Digital Systems*, vol. 11, no. 1, pp. 595-608, January, 2022. `https://journal.uob.edu.bh/handle/123456789/4498`

Conference Proceedings

- **Pranta Sarker** and Mir Lutfur Rahman, "Introduction to Adjacent Distance Array with Huffman Principle: A New Encoding and Decoding Technique for Transliteration Based Bengali Text Compression," *Progress in Advanced Computing and Intelligent Engineering*, Advances in Intelligent Systems and Computing, vol 1299. Springer, Singapore, 2021, pp. 543–555. `https://doi.org/10.1007/978-981-33-4299-6_45`
- Mir Lutfur Rahman, **Pranta Sarker**, and Ahsan Habib, "A Faster Decoding Technique for Huffman Codes Using Adjacent Distance Array," *Proceedings of International Joint Conference on Computational Intelligence*, Algorithms for Intelligent Systems. Springer, Singapore, 2020, pp. 309–316. `https://doi.org/10.1007/978-981-15-3607-6_25`

Teaching Experience and Responsibility

2018−Present **Lecturer**, Department of Computer Science and Engineering, North East University Bangladesh, Sylhet, Bangladesh.

My job at the university is divided into **academic**, **research**, and **administrative** parts. From an academic point of view, the primary role involves delivering engaging and informative **lectures** to students, utilizing innovative teaching **methods** to enhance comprehension, designing and implementing fair **assessments**, **grading** assignments, and providing constructive **feedback** to aid student development. In tandem with teaching, my role involves conducting rigorous **research**, publishing scholarly articles, and contributing to the academic discourse that allows me to publish **Scopus-indexed** articles. However, I have participated in making an Outcome Based Education (OBE) **curriculum** for several courses in the program instructed by UGC. In addition, I am still gathering experience as a **member** of the Result Verification Committee and an **Assistant Proctor** to serve the proctorial rules at the university.

Association

2022−Present **TPC reviewer**, International Journal of Computing and Digital Systems, University of Bahrain Scientific Journals. `https://journal.uob.edu.bh/handle/123456789/12?id=about`

References

- **Dr. Ahsan Habib**, Assistant Professor, IICT, Shahjalal University of Science and Technology, Sylhet. *email*: ahferoz@gmail.com