

Tahmina Khanam

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Research Interest:

Computer vision, machine learning, self-supervision techniques, image processing, and pattern recognition.

Academic Profile:

Degree	Department/Subject	Institute	Board/University	Scale	GPA/CGPA
Master of Science	Computer Science & Engineering	CUET	CUET	4.00	3.88
Bachelor of Science	Computer Science & Engineering	CUET	CUET	4.00	3.81
Higher Secondary	Science	Govt. City College, Chittagong	Chittagong	5.00	5.00
Secondary	Science	Agrabad Govt. Colony High School	Chittagong	5.00	5.00

Researchgate link: <https://www.researchgate.net/profile/Tahmina-Khanam>

Official site: <https://www.cuet.ac.bd/members/513>

Number of supervised students (undergrad) : 07

Publications:

- [1] Md. Azhar Uddin, Tahmina Khanam, Muhammad Ibrahim Khan, Kaushik Deb and Kang-Hyun Jo, "Shadow processing with color model adjustment and texture analysis", The International Workshop on Intelligent Systems August 17-19, 2022, Ulsan, Republic of Korea, 2022. (accepted)
- [2] Tahmina Khanam and Kaushik Deb, "Baggage Recognition in Occluded Environment using Boosting Technique," *KSII Transactions on Internet and Information Systems*, vol. 11, no. 11, pp. 5436-5458, 2017.
- [3] Tahmina Khanam, Pranab Kumar Dhar, Saki Kowsar and Jong-Myon Kim, "SVD-Based Image Watermarking Using the Fast Walsh-Hadamard Transform, Key Mapping, and Coefficient Ordering for Ownership Protection", *Symmetry*, vol. 12, no. 52, pp. 1-20, 2020.
- [4] Mohammad Atiqul Islam Rizvi, Kaushik Deb, Muhammad Ibrahim Khan, Mir Mohammad Saki Kowsar and Tahmina Khanam, "A Comparative Study on Handwritten Bangla Character Recognition", *Turkish Journal of Electrical Engineering & Computer Sciences*, vol. 27, no. 4, pp. 3195-3207, 2019.
- [5] Aapan Mutsuddy, Kaushik Deb, Tahmina Khanam, and Kang-Hyun Jo, "Illegally Parked Vehicle Detection Based on Haar-Cascade Classifier", *Lecture Notes in Computer Science*, vol. 11644, pp. 602-614, 2019.
- [6] Kaushik Deb, Kazi Zakia Sultana and Tahmina Khanam, "Detecting Anomalous Behavior of Credit Card Transaction using Statistical Approach", *The Chittagong University Journal of Science*, vol. 37, pp. 62-75, 2015.
- [7] Tahmina Khanam and Kaushik Deb, "Baggage Detection and Classification using Human Body Parameter & Boosting Technique", in *Proceedings of the 10th IEEE International Conference on Human System Interactions*, pp. 54-59, Ulsan, Republic of Korea, July 17-19, 2017.
- [8] Tahmina Khanam and Kaushik Deb, "Human and Carried Baggage Detection & Classification based on RSD-HOG in Video Frame", in *Proceedings of the 9th IEEE International Conference on Electrical & Computer Engineering*, pp. 415 - 418, BUET, Dhaka, Bangladesh, December 20-22, 2016.
- [9] Rahat Mahmud, Tahmina Khanam and Kaushik Deb, "Video Watermarking Scheme using Second Level Discrete Wavelet Transformation (DWT) and Fast Fourier Transformation", in *Proceedings of the 3rd International Conference on Mechanical Engineering and Renewable Energy*, Chittagong, Bangladesh, December 26-29, 2015.
- [10] Arpita Chowdhury, Tahmina Khanam and Kaushik Deb, "An Efficient Framework for Detecting Face Region Based on Skin Color Modeling and SVM Classifier", in *Proceedings of the 1st International Conference on Mathematics and Its Applications*, pp. 42-46, Khulna, Bangladesh, December 23, 2015.
- [11] Kazi Anika Hossain Naima, Tahmina Khanam and Kaushik Deb, "Color Image Watermarking Based on LU Decomposition", in *Proceedings of the 1st International Conference on Mathematics and Its Applications*, pp. 47-52, Khulna, Bangladesh, December 23, 2015.
- [12] Tahmina Khanam, Pranab Kumar Dhar and Golam Moktader Daiyan, "A Tree-Based Arithmetic Coding by Estimating Exact Probability Distribution for Data Compression", in *Proceedings of the International Conference on Mechanical Engineering and Renewable Energy*, pp. 18 - 20, Chittagong, Bangladesh, December, 2017.
- [13] Farjana Bintay Kamal, Sangita Mitra, Tahmina Khanam, Uzzal K. Acharjee, Dipankar Das and Kaushik Deb, "Human Detection Based on HOG-LBP for Monitoring Sterile Zone", in *Proceeding of 2nd International Conference on Electrical, Computer and Communication Engineering*, Cox's Bazar, Bangladesh, February 7-9, 2019.

Project Works:

- **Office Administrative management System**

Tools: java,oracle,Netbeans IDE

Platform: Windows

- **Hall Management System**

Tools: Java, oracle, Netbeans IDE

Platform: Windows

- **Housey Game**

Tools: Turbo C

Platform: Windows

- **BD Mobile Data**

Tools: Javascript, JQuery mobile, php

Platform: Firefox

Mini Games:

- Cloud of balls, Fisher, tap_tap ant

Tool: Unity with javascript

Platform: All

Minesweeper for kids, Platform: Android

Participations:

TPC member & Organizer

- International Conference on Big Data, IoT and Machine Learning (BIM-2021), CUET
- International Conference on Electrical, Computer and Communication Engineering (ECCE-2019), Cox's Bazar

Event organizer

- International Conference on Big Data, IoT and Machine Learning (BIM-2021), CUET
- International Conference on Electrical, Computer and Communication Engineering (ECCE-2019), Cox's Bazar
- Several seminars and workshops in dept. of CSE, CUET.

Conducted Courses

- Data Structure, Algorithm Design, VLSI Design, Communication Engineering, Compiler Design, Digital Image Processing (partial on demand)
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