



Profile links and contacts

Academic Link - [ResearchGate](#) | [WOS](#) | [Scopus](#) | [ORCID](#) | [GoogleScholar](#)

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Address: Beckley, 25801, West Virginia, USA

A F M Saifuddin Saif, PhD

Highlights

1. Publication list includes High Impact Web of Science indexed journals.
2. Involved in developing Artificial Intelligence and Data Science program in Colorado State University Pueblo.
3. Involved in high quality research as member of UCN Drone Network for Artificial Intelligence research in Finland through Aalto University, Finland and University of Helsinki, Finland.
4. Member of Finnish Center for Artificial Intelligence (FCAI), Finland.
5. Received best paper award in 1st International Postgraduate Seminar on Industrial Revolution 4.0 (IPSIR4.0), 2021; International Conference on Applied Science and Technology (ICAST 2021) and International Conference on Engineering and Computing Technology, ICECT, 2018.
6. Technical Committee Member, Reviewer, Session Chair in International Journals and International Conferences.

Research Interest

1. Artificial Intelligence
2. Computer Vision
3. Machine Learning
4. Image processing
5. Augmented Reality
6. Virtual Reality

Taught Courses

Undergraduate

1. Artificial Intelligence
2. Computer Vision
3. Theory of Computation
4. Analysis of Algorithms
5. Research Methodology
6. Computer System
7. Secure Software Development

Graduate

1. Computer Vision
2. Computer Vision and Pattern Recognition
3. Image Processing
4. Machine Learning and Neural Network
5. Data-Driven Decision-Making
6. Enterprise Systems
7. Research Methodology

Experience

Position: Assistant Professor

Department of Computer Science and Information Systems,
West Virginia University Institute of Technology.

Duration: August 2023 to Present

Position: Visiting Assistant Professor for Artificial Intelligence and Data Science

College of Science, Technology, Engineering, and Mathematics,
Colorado State University Pueblo, Colorado, USA

Duration: February 2023 to August, 2023

Position: Postdoctoral Researcher

School of Engineering,
Aalto University, Finland

Duration: August 2022 to February 2023

Position: Faculty Member

Laurea University of Applied Sciences, Helsinki, Finland

Duration: January 2023 to June 2023

Position: Senior Lecturer

Institute of IR4.0,

Universiti Kebangsaan Malaysia (The National University of Malaysia)

Duration: December 2021 to September 2022

Position: Postdoctoral Researcher

Department of Computer Science,

University of Helsinki, Finland

Duration: February 2021 to December 2021

Position: Senior Assistant Professor

Department of Computer Science,

American International University – Bangladesh

Duration: September 2019 to January 2021

Position: Assistant Professor

Department of Computer Science,

American International University – Bangladesh

Duration: May, 2016 to August, 2019

Position: Head of the Research Group

AIUB Brain Engineering Research Team (ABERT)

Department of Computer Science,

American International University – Bangladesh

Duration: July, 2018 to January 2021

Position: Graduate Research Assistant

Center for Artificial Intelligence and Technology (CAIT),

Department of Industrial Computing,

Faculty of Information Science and Technology.

University Kebangsaan Malaysia (The National University of Malaysia)

Duration: September 2014 to May 2015

Position: Graduate Research Assistant

Center for Artificial Intelligence and Technology (CAIT),

Department of Industrial Computing,

Faculty of Information Science and Technology.

University Kebangsaan Malaysia (The National University of Malaysia)

Duration : September 2013 to August 2014

Qualification

Doctor of Philosophy (PhD)

Research: Moving Object Detection Using Moment Invariant Motion Modeling and Edge based Segmentation from Aerial Images ([Link](#))

Center for Artificial Intelligence and Technology (CAIT),

Department of Industrial Computing,

Faculty of Information Science and Technology (FTSM),

The National University of Malaysia

Master of Science in Computer System Engineering (Software System)- “Passed with distinction marks”

Research: Human Face Recognition Using Extended Principal Component Analysis

School of Architecture, Computing and Engineering (ACE),

University of East London, UK.

Bachelor of Science in Computer Science and Engineering

Department of Computer Science & Engineering.

Shahjalal University of Science and Technology, Bangladesh.

Research Publication

Journal Articles Published Only

- 1 2023 Att-BiL-SL: Attention-Based Bi-LSTM and Sequential LSTM for Describing Video in the Textual Formation. ([Publication Link](#))
Journal Name: International Journal of Advanced Computer Science and Applications (IJACSA).
- 2 2023 Stereo Vision Based Localization of Handheld Controller in Virtual Reality for 3D Painting Using Inertial System. ([Publication Link](#))
Journal Name: Journal of Image and Graphics.
- 3 2022 Att-BiL-SL: Attention-Based Bi-LSTM and Sequential LSTM for Describing Video in the Textual Formation. ([Publication Link](#))
Journal Name: Applied Sciences - Basel.
- 4 2022 Vision based 3D Object Detection using Deep Learning: Methods with Challenges and Applications towards Future Directions. ([Publication Link](#))
Journal Name: International Journal of Advanced Computer Science and Applications (IJACSA).
- 5 2021 Augmented Reality based Adaptive and Collaborative Learning Methods for Improved Primary Education Towards Fourth Industrial Revolution (IR 4.0). ([Publication Link](#))
Journal Name: International Journal of Advanced Computer Science and Applications (IJACSA).
- 6 2021 Silhouette Pose Feature based Human Action Classification using Capsule Network. ([Publication Link](#))
Journal Name: Journal of Information Technology Research (JITR).
- 7 2021 An Efficient Method for Hand Gesture Recognition Using Robust Features Vector. ([Link](#))
Received best paper award in 1st International Postgraduate Seminar on Industrial Revolution 4.0 (IPSIR4.0), 2021. ([Link](#))
Journal Name: Journal Information System and Technology Management (JISTM).
- 8 2021 Robust Underwater Fish Detection using Convolutional Neural Network. ([Link](#))
Journal Name: International Journal of Image, Graphics and Signal Processing (IJIGSP)
- 9 2020 Moment Features based Violence Action Detection Using Optical Flow ([Publication Link](#))
Journal Name: International Journal of Advanced Computer Science and Applications (IJACSA)
- 10 2020 Robust Drowsiness Detection for Vehicle Driver using Deep Convolutional Neural Network ([Publication Link](#))
Journal Name: International Journal of Advanced Computer Science and Applications (IJACSA)
- 11 2020 Efficient Hand Gesture Recognition Using Modified Extrusion Method based on Augmented Reality ([Publication Link](#))
Journal Name: TEST Engineering & Management
- 12 2020 Augmented Reality Based AR Alphabets towards Improved Learning Process in Primary Education System ([Publication Link](#))
Journal Name: Journal of Critical Reviews
- 13 2020 A Comprehensive Study of Real-Time Vacant Parking Space Detection Towards the need of a Robust Model ([Publication Link](#))
Journal Name: AIUB Journal of Science and Engineering (AJSE)
- 14 2020 m-Naslada: A mobile application for black pepper crop disease information ([Publication Link](#))
Received best paper award in International Conference on Engineering and Computing Technology, ICECT, 2018.
Journal Name: Journal of Physics: Conference Series
- 15 2020 A Comprehensive Review towards Segmentation and Detection of Cancer Cell and Tumor for Dynamic 3D Reconstruction. ([Publication Link](#))
Journal Name: Asia-Pacific Journal of Information Technology and Multimedia (APJITM).
- 16 2019 A Comparative Study of Three Corner Feature based Moving Object Detection Using Aerial Images. ([Publication Link](#))
Journal Name: Malaysian Journal of Computer Science.

- 17 2019 Data Analysis and Visualization of Continental Cancer Situation by Twitter Scraping([Publication Link](#))
International Journal of Modern Education and Computer Science (IJMECS).
- 18 2019 Anomaly Detection in Crowded Scene by Pedestrians Behaviour Extraction using Long Short Term Method: A Comprehensive Study ([Publication Link](#))
Journal Name: International Journal of Education and Management Engineering(IJEME).
- 19 2019 Online Trial Room based on Human Body Shape Detection([Publication Link](#))
Journal Name: International Journal of Image, Graphics and Signal Processing (IJIGSP)
- 20 2019 Aggressive Action Estimation: A Comprehensive Review on Neural Network Based Human Segmentation and Action Recognition ([Publication Link](#))
Journal Name: International Journal of Education and Management Engineering(IJEME)
- 21 2019 A Review Based On Brain Computer Interaction Using EEG Headset for Physically Handicapped People.([Publication Link](#))
Journal Name: International Journal of Education and Management Engineering (IJEME).
- 22 2019 Efficient Method to Improve Human Brain Sensor Activities using Proposed Neuroheadset Device Embedded with Sensors : A Comprehensive Study. ([Publication Link](#))
Journal Name: International Journal of Software Engineering and Computer Systems, 5(1), 52-66.
- 23 2019 Category Specific Prediction Modules for Visual Relation Recognition ([Publication Link](#))
Journal Name: International Journal of Mathematical Sciences and Computing(IJMSC), Vol.5, No.2, pp.19-29,2019.
- 24 2018 Traffic Sign Detection based on Color Segmentation of Obscure Image Candidates: A Comprehensive Study.([Publication Link](#))
Journal Name: International Journal of Modern Education and Computer Science(IJMECS).
- 25 2018 Fast and Effective Motion Model for Moving Object Detection Using Aerial Images. ([Publication Link](#))
Journal Name: International Journal of Computer Vision & Signal Processing.
- 26 2018 Speech to Text conversion for Bengali Language with Labyrinth and Resolution: A Review. ([Publication Link](#))
Journal Name: International Journal of Advances in Electronics and Computer Science.
- 27 2018 3D Painting Using Inertial System and Monocular Vision for Localization of Handheld Controller in Virtual Reality. ([Publication Link](#))
Journal Name: International Journal of Advances in Electronics and Computer Science
- 28 2018 An Analysis on Position Estimation, Drifting and Accumulated Error Accuracy during 3D Tracking in Electronic Handheld Devices. ([Publication Link](#))
Journal Name: Journal of Computer and Communications.
- 29 2018 Moving Object Segmentation Using Various Features from Aerial Images: A Review. ([Publication Link](#))
Journal Name: Advanced Science Letters
- 30 2018 Measurement of Unique Pupillary Distance Using Modified Circle Algorithm. ([Publication Link](#))
Journal Name: International Journal of Computer Applications.
- 31 2018 A Study of Activity Recognition and Questionable Observer Detection. ([Publication Link](#))
Journal Name: International Journal of Computer Applications.
- 32 2018 Efficient Mathematical Procedural Model for Brain Signal Improvement from Human Brain Sensor Activities.([Publication Link](#))
Journal Name: International Journal of Image, Graphics and Signal Processing (IJIGSP)
- 33 2018 Efficient Framework Using Morphological Modeling for Frequent Iris Movement Investigation towards Questionable Observer Detection. ([Publication Link](#))
Journal Name: International Journal of Image, Graphics and Signal Processing(IJIGSP).
- 34 2018 An Efficient Hybrid Architecture for Visual Behavior Recognition using Convolutional Neural Network. ([Publication Link](#))
Journal Name: International Journal of Computer Applications.
- 35 2018 Real Time Bangla Vehicle Plate Recognition towards the Need of Efficient Model - A Comprehensive Study.([Publication Link](#))
Journal Name: International Journal of Image, Graphics and Signal Processing (IJIGSP)
- 36 2018 Bangla Digital Number Plate Recognition using Template Matching for Higher Accuracy and Less Time Complexity. ([Publication Link](#))

- Journal Name: International Journal of Computer Applications
- 37 2017 Performance Comparison of Min-Max Normalization on Frontal Face Detection Using Haar Classifiers. ([Publication Link](#))
- Journal Name: Pertanika J. Sci. & Technol.
- 38 2017 A Study of Pupil Orientation and Detection of Pupil using Circle Algorithm: A Review. ([Publication Link](#))
- Journal Name: International Journal of Engineering Trends and Technology
- 39 2017 An Algorithm to Find Out Risk Free Share to Invest in Stock Market. ([Publication Link](#))
- Journal Name: International Journal of Engineering Trends and Technology (IJETT)
- 40 2015 Moment Feature Based Fast Feature Extraction Algorithm for Moving Object Detection Using Aerial Images. ([Publication Link](#))
- Journal Name: *PLoS ONE*.
- 41 2014 Moving object detection using dynamic motion modeling from UAV aerial images. Scientific World Journal 2014. ([Publication Link](#))
- Journal URL : The Scientific World Journal
- 42 2014 A Conceptual Framework: Dynamic Path Planning System for Simultaneous Localization and Mapping Multirotor UAV. ([Publication Link](#))
- Journal Name: Advanced Science Letters.
- 43 2013 Vision-based human face recognition using extended principal component analysis. ([Publication Link](#))
- Journal Name: International Journal of Mobile Computing and Multimedia Communications.
- 44 2013 Adaptive Long Term Motion Pattern Analysis for Moving Object Detection Using UAV Aerial Images. ([Publication Link](#))
- Journal Name: International Journal of Information System and Engineering.

Book Chapters Published Only

- 1 2023 Augmented Reality-Based 3D Human Hands Tracking From Monocular True Images Using Convolutional Neural Network. ([Publication Link](#))
Received best paper award in International Conference on Applied Science and Technology (ICAST 2021). ([Publication Link](#))
Book Details: Handbook of Research on Artificial Intelligence and Knowledge Management in Asia's Digital Economy, Patricia Ordóñez de Pablos, Xi Zhang and Mohammad Nabil Almunawar (Eds.), Communications in Computer and Information Science.
- 2 2023 Robust Analysis of Motor Imagery from Brain Signals for BCI Controlled Virtual Reality System to Aid Paralysis Patients. ([Publication Link](#))
Book Details: Handbook of Research on Artificial Intelligence and Knowledge Management in Asia's Digital Economy, Patricia Ordóñez de Pablos, Xi Zhang and Mohammad Nabil Almunawar (Eds.), Communications in Computer and Information Science.
- 3 2021 Vision based Efficient Collision Avoidance Model Using Distance Measurement. ([Publication Link](#))
Book Details: Soft Computing Approach for Mathematical Modeling of Engineering Problems, Ahmadian, A., & Salahshour, S. (Eds.), Communications in Computer and Information Science.
- 4 2013 Real time vision based object detection from UAV aerial images: a conceptual framework. ([Publication Link](#))
Book Details: Intelligent Robotics System: Inspiring the Next, FIRA 2013, K. Omar et al. (Eds.), Communications in Computer and Information Science.
- 5 2013 Adaptive motion pattern analysis for machine vision based moving detection from UAV aerial images. ([Publication Link](#))
Book Details: Advances in Visual Informatics, IVIC 2013, H. Badioze Zaman et al. (Eds.), Lecture Notes in Computer Science 8237, pp. 104-114.

Conference Articles Published Only

- 1 2021 Edge Feature based Moving Object Detection Using Aerial Images: A Comparative Study. ([Publication Link](#))
Conference Name: 6th International Conference on Computing Engineering and Design (ICCED).

- 2 2021 Detection of Cancer Cell and Tumor from MRI Image Using A Hybrid Approach – A ConceptualFramework. [\(Publication Link\)](#)
Conference Name: The 5th International Multi-Conference Artificial Intelligence, 2021
- 3 2020 Stable Marriage Algorithm for Student-College Matching with Quota Constraints. [\(Publication Link\)](#)
Conference Name: In Proceedings of the International Conference on Computing Advancements (ICCA 2020).Association for Computing Machinery, New York, NY, USA, Article 52, 1–5.
- 4 2020 Toddler Sensory-Motor Development for Object Manipulation by Analyzing Hand-Pose. [\(Publication Link\)](#)
Conference Name: In Proceedings of the International Conference on Computing Advancements (ICCA 2020).Association for Computing Machinery, New York, NY, USA, Article 1, 1–7.
- 5 2020 A Robust Method for Lane Detection under Adverse Weather and Illumination Conditions Using ConvolutionalNeural Network. [\(Publication Link\)](#)
Conference Name: In Proceedings of the International Conference on Computing Advancements (ICCA 2020).Association for Computing Machinery, New York, NY, USA, Article 79, 1–8.
- 6 2020 Robust Underwater Object Detection with Autonomous Underwater Vehicle: A Comprehensive Study.[\(Publication Link\)](#)
Conference Name: In Proceedings of the International Conference on Computing Advancements (ICCA 2020).Association for Computing Machinery, New York, NY, USA, Article 17, 1–10.
- 7 2019 A Comprehensive Review towards Appropriate Feature Selection for Moving Object Detection Using AerialImages. [\(Publication Link\)](#)
Conference Name: IVIC 2019, LNCS 11870.
- 8 2015 Efficiency Measurement of Various Denoise Techniques for Moving Object Detection Using Aerial Images.[\(Publication Link\)](#)
Conference Name: The 5th International Conference on Electrical Engineering and Informatics (ICEEI2015).
- 9 2014 Motion analysis for moving object detection from UAV aerial images: A review. [\(Publication Link\)](#)
Conference Name: International Conference on Informatics, Electronics & Vision (ICIEV), 2014. pp. 1-6.

PhD Thesis Supervision (Main Supervisor and Co-Supervisor)

- 1 **Research Title:** Real-Time 3D brain data presentation in Virtual Reality (Main Supervisor)
Student: Hamidreza Firooze
University Name: The National University of Malaysia (University Kebangsaan Malaysia)
- 2 **Research Title:** Dynamic 3D object localization from Krane (Co-Supervisor)
Student: Niclas Joswig
University Name: University of Helsinki
- 3 **Research Title:** Efficient Food Waste Recognition Using Convolutional Neural Network for Campus Smart WasteManagement (Co-Supervisor)
Student: Danial Sim Wei Jie
University Name: The National University of Malaysia (University Kebangsaan Malaysia)

Master Thesis Supervision

- 1 **Research Title:** Measurement of Unique Pupillary Distance Using Modified Circle Algorithm
Student: Hossain, MD Shahadat
Received Best Thesis Award in 17th Convocation, 2018, American International University – Bangladesh (AIUB).
- 2 **Research Title:** Efficient Framework Using Morphological Modelling for Frequent Iris Movement Investigationtowards Questionable Observer Detection
Student: ANISUZZAMAN, D. M.
- 3 **Research Title:** Efficient Mathematical Procedural Model for Brain Signal Improvement from Human Brain SensorActivities
Student: CHOWDHURY, RAJIB
- 4 **Research Title:** Round Shaped Multi aligned Leaf Segmentation Using Marker-based Watershed TransformationStudent: AHMED, TANVIR
- 5 **Research Title:** A Robust Method for Lane Detection using Deep LearningStudent: YUSUF, MD MAHMUD
- 6 **Research Title:** Underwater Low Light Image Enhancement and Robust Object Detection by Using

- Auto Level ColorCorrection and Image Segmentation
Student: MAJUMDER, NILADRI SHEKHAR
- 7 **Research Title:** Edge Based Character Segmentation from Bangladeshi Vehicle Number Plate
Student: AFRIN, SADIA
- 8 **Research Title:** An Efficient Hybrid Architecture for Visual Behavior Recognition Using Convolutional Neural Network
Student: FERDOUS, MD JAVEDUL
- 9 **Research Title:** Hand Motion Recognition Using Convolution Neural Network for Detection of Bangla Sign Language
Student: SHANTA, SHIRIN
- 10 **Research Title:** Human Pose Detection
Student: RANA, ISTYAK
- 11 **Research Title:** Optical Character Recognition Using Convolutional Neural Network
Student: MIR, MD Kawsur
- 12 **Research Title :** Object Detection Using R-CNN for Visual Advancement
Student: Momen, Fahim
- 13 **Research Title:** Facial Expression Detection Using Deep Neural Network
Student: Islam, MD Naimur
- 14 **Research Title:** Bengali Handwritten Character Recognition
Student: SARWAR, TALHA BIN
- 15 **Research Title:** Robust Underwater Object detection Method using Convolutional Neural Networks
Student: GOMES, DIPTA
- 16 **Research Title:** Design of Autonomous and Intelligent UAV Path Planning
Student: ISLAM, MD. TARIQUL
- 17 **Research Title:** Understand the Sensory-Motor Development of a Child in Object Holding-Activity from Hand-Pose
Student: CHOUDHURY, ADIL MAHMUD
- 18 **Research Title:** Weighted KNN-Based Supervised Learning Framework for Vacant Parking Space Detection
Student: MAHMUD, RIFATH
- 19 **Research Title:** Rain Streaks Removal Using Canny Edge Detection for Better Vision
Student: SADIA, KAZI
- 20 **Research Title :** Efficient mobile application for real time grocery product monitoring and detection by using Internet of Things and Deep Learning
Student: KHAN, MD. DAUD ALI
- 21 **Research Title :** Real Time Crowd Density Estimation with YOLO Framework with Soft Non-Max Suppression
Student: ISLAM, RIFAT
- 22 **Research Title :** Deep Learning based 3D Hand Gesture Recognition and Tracking in Real Time
Student: Islam, Pahlwan Rabiul
- 23 **Research Title :** Fisher Motion Descriptor For LSTM based Gait Analysis using SVM Classification
Student : Shahjalal, Khadija Kubra
- 24 **Research Title :** 3D Reconstruction using Epipolar Constraints with Constant Illumination
Student : Nayeem, Syed
- 25 **Research Title :** YOLOv3 & ResNet Based Road Obstacle Detection in Real Time
Student: HOWLADER, S. M. RUHUL KABIR
- 26 **Research Title :** An Efficient Method for Building Decision Tree Using Minimal Costs Approach
Student: RAHMAN, MD. FORHADUR
- 27 **Research Title :** 2D Image Capture and Projection Based Overlap Vehicle Detection Using Geometric Technique
Student: BEG, MD. SAFAT ALAM
- 28 **Research Title :** Attention-based Bi-LSTM and Sequential LSTM for Describing Video in the Textual Formation
Student: AHMED, SHAKIL
- 29 **Research Title :** Recognition of Bangla Handwritten Digits and Alphabets using Dense Convolutional Neural Network (DenseNet)
Student: ALFAZ, NAZIA
- 30 **Research Title :** Underwater Object Classification and Detection using Inception ResNet v2
Student: RAHMAN, MAHFUJUR
- 31 **Research Title:** Computer Vision Based Approach for Real Time Bangla Sign Language

Recognition Using TensorFlow
Student: REZA, A M UMAYER

Undergraduate Thesis Supervision

- 1 Category Specific Prediction Modules for Visual Relation Recognition
Received Best Thesis Award in 18th Convocation, 2019, American International University – Bangladesh (AIUB).
- 2 Robust Walking Pattern Recognition Using Silhouette and Pose Estimation
Received Best Thesis Award in 19th Convocation, 2020, American International University – Bangladesh (AIUB).
- 3 Hand Gesture Recognition Using Modified Extrusion Technique
- 4 Pose Feature based Human Aggressive Action Classification using Capsule Network
- 5 An Efficient Method for Typing by Brain Using Brainwave towards EEG based Brain Computer Interface
- 6 Real Time Person to Person Violence Detection Using Dense Optical Flow
- 7 Eye Tracking Using Haar Cascade and Lucas Kanade Pyramidal Tracker
- 8 Improved Active Learning for ICT Courses for High School In Bangladesh
- 9 Real Time Anomaly Detection from Motion Analysis Using LSTM based Kalman Filtering
- 10 AR Alphabets: An Interactive Tool for Improved Primary School Education Methodology
- 11 Bangla Digital Number Plate Detection using Template Matching for Higher Accuracy and Less Time Complexity
- 12 Improved Detection of Cancer Cell and Tumor Using Region based Convolutional Neural Network from MRI Images
- 13 Facial Emotion Recognition Using ASIFT-PCA Method and Support Vector Machine for Multi-Class Classification
- 14 Dynamic Speech to Text Conversion Using End Point Detection and Vector Quantization Algorithm
- 15 3D Post Estimation and Projection based Overaged Vehicle Detection Using Various Geometric Techniques
- 16 Rotation Invariant Visual Tracking of Six Degree of Freedom Using Extended Kalman Filter
- 17 Bangla Voice Recognition and Visualization based on Mel-Frequency Cepstral Co-efficient (MFCCs) and Feature Extraction Using Hidden Markov Model
- 18 Breast Cancer Detection using ANN: A Convolutional Neural Network approach
- 19 Identification of Vehicle Plate Number Using Optical Character Recognition based on Augmented Reality
- 20 A Novel Approach for Signature Detection and Matching for Document Image Retrieval
- 21 An Immersive Collision Warning Model for Vehicle Detection Using Vision based Approach
- 22 Underwater Object Detection Using Inception ResNet V2
- 23 Actions Detection while Dreaming Using Brainwave
- 24 Analysis on Degree of Words for Bangla Emotion Expressions based on Multinomial Naive Bayes
- 25 Detection of Defects in Woods Using Hybrid Method
- 26 Stable Marriage Algorithm for Student-College Matching with Quota Constraints
- 27 Anomaly Detection Using Neural Network
- 28 Robust Real Time Drowsiness Detection Using Head Pose Estimation and Eye Movement
- 29 Toddlers Working memory development via visual attention and Visual Sequential Memory
- 30 Real Time Traffic Sign Detection in Multiple Light Conditions from Moving Vehicles based on Shape and Color
- 31 Human Detection from Crowd Using Camera Footage in Real-Time
- 32 Real Time Object Recognition and Tracking at Night
- 33 Crops Disease Detection Using Improved Convolutional Neural Network
- 34 Analysis of Motor Imagery EEG Classification Method for a BCI Controlled Virtual Reality
- 35 Convolutional Neural Network for Robust Face Recognition
- 36 Image Steganography based on Fredkin Gate and Improved Path Distribution with Quantum Key Exchange Protocol
- 37 Human Intentions Recognition Using Both Spatial and Temporal features from a Video Sequence
- 38 Localization of Left Ventricular Epicardium and Endocardium using Transfer Learning Approach
- 39 Data Augmented for Self-Driving Car Simulation Model Using Mask R-CNN Segmentation
- 40 Advanced Image Steganography for Information Hiding Using Sorted Edge Detection based on LSB values

Membership

Finnish Center for Artificial Intelligence (FCAI)
UCN Drone Network in Finland
FUAVE (Finnish UAV Ecosystem)
Bangladesh Computer Society (BCS) – Membership no: M -02211