

IEEE Computer Society Bangladesh Chapter

Summer Symposium 2022

| Summary of the program Schedule Day 1: June 10, 2022 (Friday) (Bangladesh Standard Time (GMT + 6:00 hrs.)) | | | | |
|---|---|--|---|--|
| Time | Session IDs and Papers | Session IDs and Papers | Session IDs and Papers | Session IDs and Papers |
| 9:00 am – 10:30 am | T1S1 PIDs: 019, 119, 123, 127, 132, 159 Zoom Link: https://bdren.zoom.us/j/5110402165 Zoom ID: 511 040 2165 | T2S1 PIDs: 016, 052, 055, 059, 060, 062 Zoom Link: https://bdren.zoom.us/j/4853526938 Zoom ID: 485 352 6938 | T3S1 PIDs: 004, 007, 008, 010, 011, 012 Zoom Link: https://bdren.zoom.us/j/4192598322 Zoom ID: 419 259 8322 | T5S1 PIDs: 020, 024, 031, 048, 056, 067, 073 Zoom Link: https://bdren.zoom.us/j/63464018504 Zoom ID: 634 6401 8504 |
| 11:00 am – 12:30 pm | T4S1 PIDs: 043,051, 053,057, 078, 082, 100 Zoom Link: https://bdren.zoom.us/j/5110402165 Zoom ID: 511 040 2165 | T1S2 PIDs: 006, 009, 013, 018, 022, 025, 026, 028 Zoom Link: https://bdren.zoom.us/j/4853526938 Zoom ID: 485 352 6938 | T1S3 PIDs: 029, 034, 035, 046, 047, 050, 054 Zoom Link: https://bdren.zoom.us/j/4192598322 Zoom ID: 419 259 8322 | T3S2 PIDs: 017, 021, 023, 036, 038, 039 Zoom Link: https://bdren.zoom.us/j/63464018504 Zoom ID: 634 6401 8504 |
| 3:00 pm – 4:30 pm | T7S1 PIDs: 030, 032, 033, 040, 044, 045, 063 Zoom Link: https://bdren.zoom.us/j/5110402165 Zoom ID: 511 040 2165 | T6S1 PIDs: 005, 042, 071, 081, 096, 106, 122 Zoom Link: https://bdren.zoom.us/j/4853526938 Zoom ID: 485 352 6938 | T3S3 PIDs: 041, 074, 075, 090, 094, 095 Zoom Link: https://bdren.zoom.us/j/4192598322 Zoom ID: 419 259 8322 | T1S4 PIDs: 058, 061, 064, 065, 066, 068, 069 Zoom Link: https://bdren.zoom.us/j/63464018504 Zoom ID: 634 6401 8504 |
| 5:00 pm – 6:30 pm | T7S2 PIDs: 072, 104, 105, 142, 146 Zoom Link: https://bdren.zoom.us/j/5110402165 Zoom ID: 511 040 2165 | T6S2 PIDs: 129, 137, 138, 140, 141, 148 Zoom Link: https://bdren.zoom.us/j/4853526938 Zoom ID: 485 352 6938 | T1S5 PIDs: 070, 076, 083, 084, 085, 086, 087 Zoom Link: https://bdren.zoom.us/j/4192598322 Zoom ID: 419 259 8322 | T2S2 PIDs: 079, 080, 130, 135 Zoom Link: https://bdren.zoom.us/j/63464018504 Zoom ID: 634 6401 8504 |

IEEE Computer Society Bangladesh Chapter

Summer Symposium 2022

Summary of the program Schedule

Day 2: June 11, 2022 (Saturday)

(Bangladesh Standard Time (GMT + 6:00 hrs.))

| | | | | |
|------------------------------------|---|---|---|---|
| <p>9:00 am - 10:30 am</p> | <p>T3S4 PIDs: 115, 117, 126, 133, 143, 150 Zoom Link: https://bdren.zoom.us/j/5110402165 Zoom ID: 511 040 2165</p> | <p>T1S6 PIDs: 088,089, 091, 092, 093, 097, 098 Zoom Link: https://bdren.zoom.us/j/4853526938 Zoom ID: 485 352 6938</p> | <p>T4S2 PIDs: 110, 114, 118, 125, 128, 149 Zoom Link: https://bdren.zoom.us/j/4192598322 Zoom ID: 419 259 8322</p> | <p>T1S7 PIDs: 99, 101, 102, 107, 109, 111, 112 Zoom Link: https://bdren.zoom.us/j/63464018504 Zoom ID: 634 6401 8504</p> |
| <p>11:00 am - 12:30 pm</p> | <p>T1S8 PIDs: 113, 120, 121, 124, 131, 134, 136 Zoom Link: https://bdren.zoom.us/j/5110402165 Zoom ID: 511 040 2165</p> | <p>T5S2 PIDs: 077, 103, 139, 151, 152, 154, 158 Zoom Link: https://bdren.zoom.us/j/4853526938 Zoom ID: 485 352 6938</p> | <p>T1S9 PIDs: 144, 145, 147, 153, 155, 156, 157 Zoom Link: https://bdren.zoom.us/j/4192598322 Zoom ID: 419 259 8322</p> | |

IEEE Computer Society Bangladesh Chapter Summer Symposium 2022

Detail Program Schedule

All Times in Bangladesh Standard Time (GMT + 6:00 hrs)

Day-1: June 10, 2022 (Friday)

Technical Session – T1S1

Session Title: Artificial Intelligence, Machine Learning, and Soft Computing-01

Date: June 10, 2022, **Time:** 9:00 am to 10:30 am BST (GMT + 6:00 hours)

Zoom Link: <https://bdren.zoom.us/j/5110402165> **Zoom ID:** 511 040 2165

Papers:

PID-019: AI based mini robot for Improving Cognitive Skills of children and monitoring child

Faria Alam, Md Abdul Al Emon, Tanha Tasfia and Ramiza Rumaisa Aliya

PID-119: A Concurrent Method for Complex Nursing Activity Recognition and Nurse Identification

Arafat Rahman, Nazmun Nahid, Md Atiqur Rahman Ahad

PID-123: Impact of Artificial Intelligence in Healthcare

Shourov Kabiraj, Zaber All Khaled

PID-127: Autism: A Study on Human Therapy vs. Robot-based Therapy

Iqbal Hassan, Minhajul Islam Ashik, Nazmun Nahid, and Md Atiqur Rahman Ahad

PID-132: Word Learning Game for children

Kushal Ghosh, Rameswar Debnath

PID-159: Reliability prediction in Bangladesh E-commerce site using Classification method & Artificial neural network

Rimi Sajeda, Sumaya Ibrahim

IEEE Computer Society Bangladesh Chapter

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Technical Session –T2S1

Session Title: Cognitive Science and Computational Biology-01

Date: June 10, 2022, **Time:** 9:00 am to 10:30 am BST (GMT + 6:00 hours)

Zoom Link: <https://bdren.zoom.us/j/4853526938> **Zoom ID:** 485 352 6938

Papers:

PID-016: Pred-Nitro: Identification of Nitrotyrosine Sites Using Structure-Based & Mutation-Based Features

Audity Ghosh, Farhana Amin, Mansura Naznine

PID-052: Identification of drug and protein-protein interaction network between stress and depression: A bioinformatics approach

Md. Abul Basar, Md. Rasel, Bikash Kumar Paul

PID-055: A Fast Algorithm to Find the Evolutionary History of a Tumor Cell

Md. Shajalal Forhad

PID-059: Integrated multi-omics data analysis of lung cancer using kernel machine regression.

Md Imtyaz Ahmed, Md Delwar Hossain, Ashan Habib Tareq

PID-060: Integrated Multi-omics Data Analysis of AML using the Generative Adversarial Network

Sabrin Afroz, Nadira Islam, Md. Ahsan Habib

PID-062: Early detection and classification of Schizophrenia from Brain fMRI images using Convolutional Neural Network (CNN)

Md. Nazmul Hasan, Riaz Uddin, Md. Abir Hossain

IEEE Computer Society Bangladesh Chapter

Summer Symposium 2022

Technical Session –T3S1

Session Title: Internet of Things (IoT) and Data Analytics-01

Date: June 10, 2022, **Time:** 9:00 am to 10:30 am BST (GMT + 6:00 hours)

Zoom Link: <https://bdren.zoom.us/j/4192598322> **Zoom ID:** 419 259 8322

Papers:

PID-004: An IoT based Payment System with Smart Watch.

Nishat Vasker, Mahamudul Hasan

PID-007: IoT Based Cap and Shoe for Blind people With Surveillance system

Nishat Vasker

PID-008: Electricity and fire Surveillance system using an IoT-based smart switch

Nishat Vasker

PID-010: IoT based smart fish farming and Monitoring System

Israfil islam

PID-011: Industrial (5.0) IoT Cyber Threats: Using a Blockchain Platform to Manage IoT Devices

Nishat Vasker, Mahamudul Hasan

PID-012: Design of Energy Hybrid Power Sytem for Motor Vehicle

Tawheed Hasan, Shahrizan Jamaluddin, WB Wan Nik, Mehedi Hasan

IEEE Computer Society Bangladesh Chapter

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Technical Session –T5S1

Session Title: Signal Processing and Computer Vision-01

Date: June 10, 2022, **Time:** 9:00 am to 10:30 am BST (GMT + 6:00 hours)

Zoom Link: <https://bdren.zoom.us/j/63464018504> **Zoom ID:** 634 6401 8504

Papers:

PID-020: Improvised Intrusion Detection System

Lt Asmaul Husna, Lt Masrur Masuk Shopnil, Lt Md Mehedi Hasan, Lt Tasnim Tabassum Rima and Flg Offr Sazid Shariar

PID-024: Tracking of Artillery Shell using Optical Flow

Abdullah Al Masum, Shad Reza, Samir Hasan and Nusrat Sharmin

PID-031: Face Mask Detection Performance Evaluation of ASUS Tinker and MobileNetV2 on Various Datasets

Nusrat Jahan, Farjana Yeasmin Rupa, Suprio Sarkar and Ferdib-Al-Islam

PID-048: User Prediction of Hand Movement Using EEG

Fahria Khan Niti, Abu Talha, and Taohid Hossain Ayon

PID-056: Car Detection from UAV images based on Improved Faster R-CNN and Mask R-CNN

Sohag Hossain, Md. Abdullah

PID-067: A Deep Learning Approach for Gesturization of English Language

Mir Mahathir Mohammad and Muhammad Abdullah Adnan

PID-073: An efficient method of ROI detection for Bangla text extraction and recognition from natural scene images.

Rashedul Islam, Md. Rafiqul Islam

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June 10, 2022, 10:30 am – 11:00 am: Refreshment Break

Technical Session –T4S1

Session Title: Network and Security-01

Date: June 10, 2022, **Time:** 11:00 am to 12:30 pm BST (GMT + 6:00 hours)

Zoom Link: <https://bdren.zoom.us/j/5110402165> **Zoom ID:** 511 040 2165

Papers:

PID-043: A Practical Approach of Threat Modeling against Real-world Adversaries for FinTech

Hasibul Hossain Shajeeb, Shirin Sultana Riasa, Bashar Bin Habiba, Md. Saifur Rahman, Khondokar Fida Hasanb

PID-051: Cluster-Based Transmission Diversity Optimization in Ultra Reliable Low Latency Communication

Md. Amirul Hasan Shanto, Binodon, Amit Karmaker, Md. Mahfuz Reza, and Md. Abir Hossain

PID-053: A Distributed Approach to Construct Starfish Routing Backbone in an Obstructed Sensor Networks

Moniruzzaman, Mst.Zakia Sultana, Md. Ahsan Habib

PID-057: User-centric Cell-free Massive MIMO for 6G Wireless Networks

Mahbuba Zaman Mitu1, Aysa Akter, Dr Muhammad Shahin Uddin

PID-078: Data Hiding Using Image Steganography in Cyber Security World

Md. Shamimul Islam, Institute of Computer Science, Atomic Energy

PID-082: Cross-Layer Architecture for Energy Optimization of Edge Computing

Rushali Sharif Uddin, Nusaiba Zaman Manifa, Latin Chakma, Md. Motaharul Islam

PID-100: QoE Aware Service Placement Scheme in Mobile Edge Computing Exploiting Hyper-Heuristic Approach

Safiqul Islam, Mahadi Ahammed, Nura Alam Siddique, Palash Roy, Md. Abdur Razzaque

IEEE Computer Society Bangladesh Chapter

Summer Symposium 2022

Technical Session–T1S2

Session Title: Artificial Intelligence, Machine Learning, and Soft Computing-02

Date: June 10, 2022, **Time:** 11:00 am to 12:30 pm BST (GMT + 6:00 hours)

Zoom Link: <https://bdren.zoom.us/j/4853526938> **Zoom ID:** 485 352 6938

Papers:

PID-006: MedAi: A Smartwatch-Based Health Monitoring Application using Machine Learning

Natasha Tanzila Tanzila Monalisa, Shinthi Tasnim Himi, Mohammad Shorif Uddin

PID-009: Using MY VISION, A Method to Identify Bangladeshi Metro Bus Itinerary Numbers

Nishat Vasker

PID-013: Dynamic Concept of AI in IT Services of Bangladesh

Mehedi Hasan Rajib, D. Alam, Tawheed Hasan

PID-018: Bangla abusive word detection using voice recognition

Syed Taha Yeasin Ramadan, Md. Mushfique Hossain, Tanjim Sakib, Md. Ahsan Rahat and Nusrat Sharmin

PID-022: Voice-Controlled Robotic Arm to Assist Surgeons in Surgery

Faria Alam, Md Abdul Al Emon, Tanha Tasfia and Ramiza Rumaisa Aliya

PID-025: A wearable SOS alert system with Crime Area Prediction and Criminal Identification using Machine Learning

Nazia Shehnaz Joynab, Fairouz Nawar Nawme, Sazia Tabasum Mim, A.S.M. Rakibul Hasan and Arifur Rahman Rabbi

PID-026: Classical Machine Learning Approach for Human Activity Recognition Using Location Data

Safaeid Hossain Arib, Rabeya Akter, Omar Shahid, and Md Atiqur Rahman Ahad

PID-028: A survey on Unorganized, inefficient, Conventional brick fields and a proposed Solution to solve air pollution and plastic waste problem.

Mushfiq-Uz-Zaman Chowdhury

IEEE Computer Society Bangladesh Chapter

Summer Symposium 2022

Technical Session –T1S3

Session Title: Artificial Intelligence, Machine Learning, and Soft Computing-03

Date: June 10, 2022, **Time:** 11:00 am to 12:30 pm BST (GMT + 6:00 hours)

Zoom Link: <https://bdren.zoom.us/j/4192598322> **Zoom ID:** 419 259 8322

Papers:

PID-029: Dementia Prediction Using SMOTE and Stacking Model

Khan Mehedi Hasan, Mostofa Shariar Sanim, Ferdib-Al-Islam, Syeda Ummay Honey

PID-034: An Ensemble Machine Learning Model for Predicting Agricultural Major Crop Production.

Ahamedul Kabir, Md. Aktaruzzaman, Maliha Binte Mukhles, Md. Mehedi Islam

PID-035: Hospitalization Period Prediction for COVID-19 Patients Using ADASYN and Stacking-Based Ensemble Learning

Rayhan Robbani and Ferdib-Al-Islam

PID-046: Cri-Astrologer: Predicting Demography of Involved Criminals based on Historical Data

Md. Atiqur Rahman, A. B. M. Alim Al Islam

PID-047: A hybrid approach with deep learning and machine learning for anomaly-based intrusion detection

Jahin Hossaina, All Moon Tasira, Maruf Billaha, Md. Saifur Rahmana, Khondokar Fida Hasanb

PID-050: Startup Success prediction using Classification Algorithms

Fardin Rahman Akash, Md Tahmid Zoayed, Sayma Haque Arshe

PID-054: DeepBend: An interpretable model for DNA Bendability

Samin Rahman Khan, Sadman Sakib, M. Sohel Rahman, Md. Abul Hassan Samee

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Technical Session –T3S2

Session Title: Internet of Things (IoT) and Data Analytics-02

Date: June 10, 2022, **Time:** 11:00 am to 12:30 pm BST (GMT + 6:00 hours)

Zoom Link: <https://bdren.zoom.us/j/63464018504> **Zoom ID:** 634 6401 8504

Papers:

PID-017: Digital Kote Management System A Blockchain Approach

Tanzil Ahmed, Farhana Pervin, Salman Rahman, Abdullah Al Mahmud, Mehedi Hasan

PID-021: Amplify networking and grid stability of substation

Shanto Babu Das, Amit Kanti Ray Badhon, Farazana Akter Nishat, Dipannita Das

PID-023: Military Vehicle Monitoring & tracking System

Mostofa Shahriar Rafid, Md Tanvir Al Fuad, Md Faisal Ahmed, Iftiaqur

PID-036: Automated Universal Voltage Converter: A Novel Design with Arduino Uno Rev3 (ATmega328P)

Shourabh Halder

PID-038: Automated Waste and Garbage Recycling Management System

Shourabh Halder

PID-039: IoT Based Mechanized Industrial Automation Robot

Abdullah All Mamun Anik, Shuvodip Adhikary, Md. Istiak Habib, Abdul Gafur

June 10, 2022

12:30 pm – 3:00 pm: Prayer and Lunch Break

IEEE Computer Society Bangladesh Chapter

Summer Symposium 2022

Technical Session –T7S1

Session Title: ICT in Satellite and Aerospace Engineering -01

Date: June 10, 2022, **Time:** 3:00 pm to 4:30 pm BST (GMT + 6:00 hours)

Zoom Link: <https://bdren.zoom.us/j/5110402165> **Zoom ID:** 511 040 2165

Papers:

PID-030: Satellite Communication on The Move (S.O.T.M)

Md. Khairul Habib Habib, A.M. Saadnan Saadnan Tahsin, Benzir Ahmmed, Jolok Banarjee

PID-032: Interplanetary (IP) CubeSat: Revolutionary Possibility to Mars Mission

Oleullah olee, Ahnaf Ahmed Nuhash, Tanvir Hossain Bhuiyan, Mahi Uddin Ahmaad, A.K.M. Mohitul Hassan, Nuzhat Nawar Khan, Tanvir Ahmed

PID-033: Next Generation Green Composite with Natural Fibers (Jute)

Oleullah ole

PID-040: MPPT Algorithm in improving efficiency of EPS in CubeSat

Sawrab Basak Joy, Benzir Ahmmed, Moinul Islam, Tahid Nur Rahman, Humira Aznan, Sabit Hasan, Raed Hossain

PID-044: Fail Proofing the Attitude Control of PicoSats

Md Ahad Israq, A.M. Saadnan Tahsin, Fatiha Bintey Ashraf, Shafeen Ahmed, Tanvir Ahsan Showrov, Yameen Azra, Tyseer Ninad, P R Debnath

PID-045: A Conceptual Research Model for CubeSat Communication System Using Quantum Key Distribution (QKD)

Subrata Sarkar, Moustofa Amir Faisal, Naim Mahmud Rahad, Khalid Sifullah1d, Md. Ehsanur Rahman, Najmus Shakif Ayan, Jolok Banarjee

PID-063: Ground Station on the Go - A Portable Ground Station Model for Tracking Satellites

Ahmed Usama Shimul, Aliul Hasan Olee, Sumaiya Imu, Md. Hemel Ishak, Shahnaz, Sabrina Nowrin, Akmal Ahmmaed

IEEE Computer Society Bangladesh Chapter

Summer Symposium 2022

Technical Session –T6S1

Session Title: Algorithms and Computation-01

Date: June 10, 2022, **Time:** 3:00 pm to 4:30 pm BST (GMT + 6:00 hours)

Zoom Link: <https://bdren.zoom.us/j/4853526938>

Zoom ID: 485 352 6938

Papers:

PID-005: An Alternative Implementation In Register Renaming Logic

Md Saiful

PID-042: Quality-aware Bus-Driver Scheduling for Intelligent Transportation System in Bangladesh

Mondira Chakraborty, Sajeeb Saha

PID-071: Chemical Reaction Optimization for Minimum Weight Dominating Set

Pritam Khan Boni, Md. Rafiqul Islam

PID-081: New Results on Pairwise Compatibility Graph

Sheikh Azizul Hakim, Bishal Basak Papan, and Md. Saidur Rahman

PID-096: Nuclear Waste Recycling: Rooppur Power Plant's Perspective

Md.Hasibul Huq Shanto, Nipa Saha, Taseen Tahmeed, Aklima hakkani, Md. Motaharul Islam

PID-106: Sliding Column Model for t-Unit Bar Visibility Representations of Graphs

Md. Manzurul Hasan, Shaheena Sultana, Md. Saidur Rahman

PID-122: Electronic Waste Management: A Crucial Concerns of Technologically Advanced 21st Century

Shifa Chowdhury Iwase, Labib Azad, Abubakar Hridoy, Md. Motaharul Islam

IEEE Computer Society Bangladesh Chapter

Summer Symposium 2022

Technical Session–T3S3

Technical Session Title: Internet of Things (IoT) and Data Analytics

Date: June 10, 2022, **Time:** 3:00 pm to 4:30 pm BST (GMT + 6:00 hours)

Zoom Link: <https://bdren.zoom.us/j/4192598322>

Zoom ID: 419 259 8322

Papers:

PID-041: Health Information Card

Musammat Samina

PID-074: Big Data Analysis for E-Trading System

Md. Moynul Islam, Tamima Nisat, Sudipto Ghosh, Maharin Afroj, Md. Tabil Ahammed

PID-075: Big Data Analysis for E-Trading Flower Shop Management System

Tamima Nisat, Md. Tabil Ahammed, Sudipto Ghosh, Md. Moynul Islam, Maharin Afroj, Al Rifat Hasan, Md Al Amin Hossain

PID-090: Granularity-based Comparison of the Bug-proneness of Code Clones

Smritikana Mondal, Manishankar Mondal, Rameswar Debnath

PID-094: Risk Analysis and Support System for Children with ASD using IoT

Tahiya Akter, Susmita Debnath, Shartaz Yeasar Feeham and Md. Solaiman Mia

PID-095: Investigating context adaptation bugs in micro clones

Sayeedi Mottakin, Maliha BZ Khan, Manishankar Mondal

IEEE Computer Society Bangladesh Chapter

Summer Symposium 2022

Technical Session–T1S4

Session Title: Artificial Intelligence, Machine Learning, and Soft Computing-04

Date: June 10, 2022, **Time:** 3:00 pm to 4:30 pm BST (GMT + 6:00 hours)

Zoom Link: <https://bdren.zoom.us/j/63464018504> **Zoom ID:** 634 6401 8504

Papers:

PID-058: Epstein-Barr Virus Nuclear Antigen Proteins Deploy Diverse Mechanisms to Bind the Human Genome

Md. Redwanul Haque, Abdur Rashid Tushar, M. Sohel Rahman, Md. Abul Hassan Samee

PID-061: Parkinson's disease detection using different CNN architectures with a random under sampling strategy and effective feature selection approach.

Md. Toukir Ahmed and Md. Nazrul Islam Mondal

PID-064: A deep learning based approach for accurate prediction of protein ubiquitination sites using word embedding techniques and physicochemical properties

Md. Faruk Hosen, Muhammad Shahin Uddin

PID-065: Fuzzy Logic Application for Aircraft Structural Analysis

Md Asifuzzaman Khan, Sk Kafi Ahmed, Shahrukh Khan

PID-066: An Ensemble approach to classify various labels of Stress, Anxiety and Depression with the help of machine learning.

Md Rafiqul Islam, Md Abu layek

PID-068: A Prediction Based Replica Selection Strategy for Reducing Tail Latency in Geo-Distributed Systems

Santa Maria Shithil and Muhammad Abdullah Adnan

PID-069: Intelligent Imputation of Missing Values in A Real Criminal Dataset

Tasnim Rahman, A. B. M. Alim Al Islam

IEEE Computer Society Bangladesh Chapter

Summer Symposium 2022

Technical Session –T7S2

Session Title: ICT in Satellite and Aerospace Engineering-02

Date: June 10, 2022, **Time:** 5:00 pm to 6:30 pm BST (GMT + 6:00 hours)

Zoom Link: <https://bdren.zoom.us/j/5110402165> **Zoom ID:** 511 040 2165

Papers:

PID-072: Research on Digital Combined Measurement Method for Aircraft Fuselage Panel Manufacturing

Md Helal Miah, Shahrukh Khan

PID-104: A machine learning based data continuity mission using CubeSats to monitor environmental parameters over Bangladesh

Md. Abu Saleh

PID-105: Satellite Ground Station Antenna Point Error Analysis

Sk Kafi Ahmed, Shahrukh Khan, Asifuzzaman Khan

PID-142: Implementation of Engineering Software as a part of Regular Undergraduate and Postgraduate Courses

Mezbah Uddin, Saiaf Bin Rayhan, Nafiz Ahmed Khan Khan

PID-146: ICT used in tackling one of the biggest challenges of today- “Space Debris”

Mehedi Hasan Hridoy

IEEE Computer Society Bangladesh Chapter

Summer Symposium 2022

Technical Session –T6S2

Session Title: Algorithms and Computation-02

Date: June 10, 2022, **Time:** 5:00 pm to 6:30 pm BST (GMT + 6:00 hours)

Zoom Link: <https://bdren.zoom.us/j/4853526938>

Zoom ID: 485 352 6938

Papers:

PID-129: Procedural Generation of Trees with 3D Leaf Venation by Space Colonization Algorithm

Mahathir F Nabil, Jannatul Tasnim, Mustafizur Rahman, Shaheena Sultana

PID-137: A integrated Braille device to assist all visually impaired people

Maharin Afroj, Md Rakibul Hasan

PID-138: Algorithms for Minimizing Systemic Risks in Stock Market

Sujoy Das, Md. Saidur Rahman

PID-140: Greenedge computation security threats and cures

Maharin Afroj, Md. Tabil Ahammed, Sohaima Hossain

PID-141: Detection Methods for Software Defined Networking Intrusions (SDN)

Maharin Afroj, Sudipto Ghosh, Tamima Nisat, Md. Tabil Ahammed, Md. Moynul Islam

PID-148: A Review on Reducing Complexity of Binary Search Algorithm

Rashedul Arefin Ifty, Afif Hossain Irfan, and Md. Ismail

IEEE Computer Society Bangladesh Chapter

Summer Symposium 2022

Technical Session –T1S5

Session Title: Artificial Intelligence, Machine Learning, and Soft Computing-05

Date: June 10, 2022, **Time:** 5:00 pm to 6:30 pm BST (GMT + 6:00 hours)

Zoom Link: <https://bdren.zoom.us/j/4192598322>

Zoom ID: 419 259 8322

Papers:

PID-070: Smart Transportation System for Accident Prevention

Manika Tun Nafisa, Anika Tun Naziba

PID-076: Automatic Line Level Code Completion with the help of similarity detection model.

Shamima Naznin

PID-083: COVID-19 Detection from Chest X-Ray Images Using CNN Models and Deep Learning

Nafisha Binte Moin, Shamima Sultana, Abdullah Al Munem, Omar Tawhid Imam, and Mohammad Shamsul Arefin

PID-084: Overlapping Community Detection using Dynamic Dilated Aggregation in Deep Residual GCN

Md Nurul Muttakin, Md Iqbal Hossain, Md Saidur Rahman

PID-085: Detection and Classification of Sensitive Audio-Visual Content for Automated Film Censorship and Rating

Syma Afsha, Mahmudul Haque

PID-086: Green Power and Energy Management: Smart City Perspective

Nusrat Jahan Sarna, Md. Rishad Islam, Mosnur Ahmed, Farzana Ahmed Rithen, Rakib Hasan, Md. Motaharul Islam

PID-087: Machine Learning Integrated Smart Telemedicine System

Towsif Muhtadi Khan, Zahid Hasan

IEEE Computer Society Bangladesh Chapter

Summer Symposium 2022

Technical Session –T2S2

Session Title: Cognitive Science and Computational Biology-02

Date: June 10, 2022, **Time:** 5:00 pm to 6:30 pm BST (GMT + 6:00 hours)

Zoom Link: <https://bdren.zoom.us/j/63464018504>

Zoom ID: 634 6401 8504

Papers:

PID-079: Capturing long range nucleotides interaction improves sequence-to-methylation modelling

Sabrin Afroz, Nadira Islam, Md. Ahsan Habib

PID-080: MEMS Blood Pressure Sensor Design Leveraging Distinctive Piezoelectric Materials

Sajib Acharjee Dip, Iqbal Hossain Raju, M. Sohel Rahman, Md. Abul Hassan Samee

PID-130: Diabetes and Regain Beta Cell

Md yeakub Ali

PID-135: Cost efficient automated fog spraying machine: A Covid-19 Hand Sanitization Solution

M Atikur Rahman, Emran Babar, Arman Hossain, Arifur Rahman Bhuiyan

IEEE Computer Society Bangladesh Chapter

Summer Symposium 2022

Detail Program Schedule

All Times in Bangladesh Standard Time (GMT + 6:00 hrs)

Day-2: June 11, 2022 (Saturday)

Technical Session –T3S4

Session Title: Internet of Things (IoT) and Data Analytics-04

Date: June 11, 2022, **Time:** 9:00 am to 10:30 am BST (GMT + 6:00 hours)

Zoom Link: <https://bdren.zoom.us/j/5110402165> **Zoom ID:** 511 040 2165

Papers:

PID-115: Mining Association Rules to Automatically Identify Micro-Clones that can be Important for Refactoring

Rumpa Paul, Manishankar Mondal

PID-117: Bug-propagation through micro-clones: An Empirical Study

Md. Hasibul Islam, Manishankar Mondal

PID-126: Comparing the Importance of Function-Level and Fragment-Level Micro-clones

Mehedi Hasan Shanto, Md Ashadousjaman Rony, Manishankar Mondal, Rameswar Debnath

PID-133: Implementation of Spy Military Robot for a Surveillance System Using Smart Phone

Md. Abu Sayem, Md. Siddiqur Rahman, Innika Khatun

PID-143: Time-Triggered Frame Shrinking Over Standard Ethernet Switch

Md Mehedi Hasan, He Feng, Shahrukh Khan, Md Samin Rahman, Md Tanvir Hasan

PID-150: Integrated IoT Based “Smart” Agriculture System

Raquibul Hasan Ifty, Farha Kalam Prima, Shahriar Shams Alvee and Mustafa Habib Chowdhury

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Summer Symposium 2022

Technical Session–T1S6

Session Title: Artificial Intelligence, Machine Learning, and Soft Computing-06

Date: June 11, 2022, **Time:** 9:00 am to 10:30 am BST (GMT + 6:00 hours)

Zoom Link: <https://bdren.zoom.us/j/4853526938>

Zoom ID: 485 352 6938

Papers:

PID-088: Autism Detecting Model using Image

Md. Tahmid Zoayed, Sayma Haque Arshe, Plabon Banik, Omar Tawhid Imam, Ahmed Wasif Reza and Mohammad Shamsul Arefin

PID-089: Chest X-Ray Image Classification Using Convolutional Neural Network to Identify TB (Tuberculosis)

Fahmida Nusrat Promy, Tasnia Afrin Chowdhury, Somaiya Akter Sania, Omar Tawhid Imam, Ahmed Wasif Reza and Mohammad Shamsul Arefin

PID-091: Prediction of Hepatitis Disease Using Machine Learning Algorithms

Md. Julker Nayeem, Sohel Rana, Md. Nazrul Islam Mondal

PID-092: Analyzing online job portal data for the ICT sector in Bangladesh: what can we infer?

Sheikh Saifur Rahman Jony

PID-093: Market Basket Analysis for Improving the Effectiveness of Marketing and Sales in Retail Supermarket

Sohel Rana, Md. Nazrul Islam Mondal, Md. Julker Nayeem

PID-097: Human Posture Estimation: In Aspect of the Agriculture Industry

Meharaj - UI- Mahmud, Md. Ahsan Ahmed, Sayed Monshurul Alam, Ahmed Wasif Reza, Omar Tawhid Imam and Mohammad Shamsul Arefin

PID-098: Flower Recognition Using VGG16

Md. Ashikur Rahman, Md. Saif Laskar, Samir Asif, Omar Tawhid Imam, Ahmed Wasif Reza and Mohammad Shamsul Arefin

IEEE Computer Society Bangladesh Chapter

Summer Symposium 2022

Technical Session –T4S2

Session Title: Networks and Security-02

Date: June 11, 2022, **Time:** 9:00 am to 10:30 am BST (GMT + 6:00 hours)

Zoom Link: <https://bdren.zoom.us/j/4192598322>

Zoom ID: 419 259 8322

Papers:

PID-110: National Identity Management System using Blockchain Technology

Randy Gregory Rozario

PID-114: Optimized Energy Consumption & Resource Allocation of Green Clouds: A Survey

Iftida Isaba, Puja Ghosh, Fardina Bhuiyan, Sharmila Tabassum, Wasiul Hoque Alve

PID-118: Defending against security risks using several machine learning applications

Md Foysal Hossain, Alauddin Sabari, Md Zahidul Islam

PID-125: Two-sided Auction Based Pricing Scheme for Code Offloading in Mobile Device Cloud

Zeneya Sharmin, Mahshiat Tahsin Bably, Md. Abdur Razzaque, Palash Roy

PID-128: Fileless Malware Development & Detection

Md Tareq Hasan

PID-149: Application of Blockchain for a Secure Smart City

Shuva Brata Saha, Nazmul Hassan Limon, Shaheena Sultana

IEEE Computer Society Bangladesh Chapter

Summer Symposium 2022

Technical Session –T1S7

Session Title: Artificial Intelligence, Machine Learning, and Soft Computing-07

Date: June 11, 2022, **Time:** 9:00 am to 10:30 am BST (GMT + 6:00 hours)

Zoom Link: <https://bdren.zoom.us/j/63464018504> **Zoom ID:** 634 6401 8504

Papers:

PID-99: Detection of Rice Pests Using Machine Learning Approaches

Zihad Hossain Nayem, Md. Iqbal Jahan, Abdul Aziz Rakib, Md. Solaiman Mia

PID-101: Aircraft Passenger Prediction for Domestic and International Terminal in Bangladesh

Shahrukh Khan, Sk Kafi Ahmed, Asifuzzaman Khan

PID-102: Development of an API to Recognize Emotion Using Speech Features

Shimul Chandra Das, Md. Benajir Alam, Most Sumiya Akter Moon, Md. Solaiman Mia

PID-107: Breast Cancer Detection using Image Processing Techniques

Mehedi Hasan Tarek, Md. Junayed Hossain, Omar Tawhid Imam, Mohammad Shamsul Arefin

PID-109: A Comparative Study on the Bug-Proneness of Different Types of Micro-Clones

Jannatul Ferdous, Md Abu Dawod Rahman, Manishankar Mondal, Rameswar Debnath

PID-111: Covid-19 Detection Using Symptoms Dataset and Supervised Machine Learning

Ashifur Rahman, Mohasina Jannat Moon

PID-112: Deep Learning-based Web Application for Analyzing Image Data of Colon Cancer

Alauddin Sabari, Md Zahidul Islam, Mithila Farjana

IEEE Computer Society Bangladesh Chapter

Summer Symposium 2022

Technical Session –T1S8

Session Title: : Artificial Intelligence, Machine Learning, and Soft Computing-08

Date: June 11, 2022, **Time:** 11:00 am to 12:30 pm BST (GMT + 6:00 hours)

Zoom Link: <https://bdren.zoom.us/j/5110402165> **Zoom ID:** 511 040 2165

Papers:

PID-113: Sentiment Analysis of Restaurant Reviews Using Machine Learning

Md.Abdullah, Sohag Hossain, Sajjad Waheed

PID-120: ScribbleSeg: Segmenting Spatial Transcriptomics Data Using Scribble-Annotated Histology Images

Mohammad Nuwaisir Rahman, Abir Mohammad Turza1, Md. Abul Hassan Samee, M. Saifur Rahman

PID-121: Detection and Identification of Abnormalities in Human Gait on Walking Pattern Comparison

Md Shohanuzzaman

PID-124: Analyzing Electrical Activity of the Brain in CLIS and Developing Communication using Deep Neural Network and RNN

Romana Nourin Nipa, Md. Jakir Hossain

PID-131: Analysis of various optimizers on deep convolutional neural network model in Medical Image Analysis

Md Jubaer Rahman

PID-134: Detection of Enemy Military Existence & Equipment Using Drone Technology

Md. Sharior Akram

PID-136: Traffic Flow prediction using Machine learning Algorithms

Hazrat Ali

IEEE Computer Society Bangladesh Chapter

Summer Symposium 2022

Technical Session-T5S2

Session Title: Signal Processing and Computer Vision-02

Date: June 11, 2022, **Time:** 11:00 am to 12:30 pm BST (GMT + 6:00 hours)

Zoom Link: <https://bdren.zoom.us/j/4853526938>

Zoom ID: 485 352 6938

Papers:

PID-077: Development of Automatic Remote Baby Crying Detection Device for Audibly Impaired Caregivers

Mahfuza Sultana

PID-103: Design and Implementation of a Face Recognition System for Identifying a Human Using Image Processing

Md. Araf Mahmud, A.S.M Motashim, Most. Ferjana Bobby and Md. Solaiman Mia

PID-139: An Augmented Reality-based intelligent game for helping kids in their education.

Tahmina Tahrim, Khandokar Nafis Jaman, Md. Rafidul Islam

PID-151: Effect of Artifact Removal on EEG Based Motor Imagery BCI Applications

Maisha Anjum, Nazmus Sakib Mustak, Md. Kafiul Islam

PID-152: Motion Artifact Removal for EEG Applications

Sheikh Farhana Binte Ahmed, Md. Kafiul Islam

PID-154: Investigation of Artifacts Presence in Selected EEG Based Neuromarketing Dataset & Preference Classification.

Md. Tawhid Islam Opu, Md. Kafiul Islam

PID-158: Design and Development of a Low-cost EOG-based Human Machine Interface (HMI) for Physically Challenged People

Md. Ahsan-UI Kabir Shawon, Nazmus Sakib, Md. Kafiul Islam

IEEE Computer Society Bangladesh Chapter

Summer Symposium 2022

Technical Session –T1S9

Session Title : Artificial Intelligence, Machine Learning, and Soft Computing-08

Date: June 11, 2022, **Time:** 11:00 am to 12:30 pm BST (GMT + 6:00 hours)

Zoom Link: <https://bdren.zoom.us/j/4192598322>

Zoom ID: 419 259 8322

Papers:

PID-144: Smartphone Sensors Based Heart-Rate Prediction and Pattern Recognition of Activity Intensity for Early Staging of Depression

Fariha Anjum, Sadia Alam, Erfanul Hoque Bahadur and Abdul Kadar Muhammad Masum

PID-145: Skin Disease Detection

Amit Mojumder, Golam Rabbani, Masudur Rabbi Rahat, Omar Tawhid Imam, Ahmed Wasif Reza and Mohammad Shamsul Arefin

PID-147: Developing a Tool to Classify Different Types of Fruits Using Deep Learning and VGG16

Md. Muktadir Mukto, Md. Maiyaz Al Mahmud, Ikramul Haque, Omar Tawhid Imam, Ahmed Wasif Reza and Mohammad Shamsul Arefin

PID-153: Developing a Tool to Classify Lethal Weapons by Analyzing Images

Mobassir Ahsan, Md. Saifur Rahman, Mahfuza Yousuf, Farhana Islam Proma, Omar Tawhid Imam, Ahmed Wasif Reza and Mohammad Shamsul Arefin

PID-155: Analysis of EEG signal Classification for Application in SSVEP based BCI using Convolutional Neural Network

Md. Saiful Islam Leon, Jarina Akter, Nazmus Sakib, Md. Kafiul Islam

PID-156: Exploration of Different Filtering and Classification Methods to Find Optimum Solution for MI-BCI using EEG

Nazmus Sakib, Md. Kafiul Islamb

PID-157: Developing a Classification CNN Model to Classify Different Types of Fish

Farhan Ahmed, Bijoy Basak, Simonta Chakraborty, Tumpa Karmokar, Omar Tawhid Imam, Ahmed Wasif Reza and Mohammad Shamsul Arefin

IEEE Computer Society Bangladesh Chapter Summer Symposium 2022

Closing and Award Ceremony with a Keynote Session

Date: June 11, 2022

Time: 7:30 pm to 10:00 pm BST (GMT + 6:00 hours)

Venue: BSMRAAU, Dhaka Campus, Bangladesh

End of IEEE CS BDC Summer Symposium 2022