2024 2nd International Conference on Information and Communication Technology (ICICT 2024)

21-22 October 2024, Dhaka, Bangladesh

https://icict.buet.ac.bd/

Technical Program at a Glance

		8:45 AM - 9:45 AM	Registration
		9:45 AM - 10:00 AM	Guests Take Their Seats
	Academic Council Bhaban	10:00 AM -10:45 AM	Inauguration Ceremony
	Academic Council Briaban	10:45 AM - 11:00 AM	Tea Break
Day 1:		11:00 AM - 11:30 AM	Invited Talk
Monday		11:30 AM - 12:30 PM	Tutorial on Cybersecurity
21 October 2024	Free Space (West Side) 7th floor, ECE Bhaban	12:30 PM - 2:00 PM	Lunch Break
	Room 705, IICT, ECE Bhaban	2:00 PM - 2:45 PM	Keynote Speech (Hybrid)
	Room 627/629, ECE Bhaban	2:45 PM - 4:30 PM	Technical Sessions 1, 2
	Free Space (East Side) 6th floor, ECE Bhaban	4:30 PM - 4:45 PM	Tea Break
	Room 627/629, ECE Bhaban	4:45 PM - 6:15 PM	Technical Sessions 3, 4
2			
	Room 705, IICT, ECE Bhaban	9:00 AM - 10:00 AM	Keynote Speech (Hybrid)
	Room 705, IICT, ECE Bhaban	10:00 AM - 10:45 AM	Keynote Speech (Hybrid)
Day 2:	Free Space (East Side) 6th floor, ECE Bhaban, BUET	10:45 AM - 11:00 AM	Tea Break
Tuesday 22 October	Room 627/629, ECE Bhaban, BUET	11:00 AM - 12:45 PM	Technical Sessions 5,6
2024	Free Space (West Side) 7th floor, ECE Bhaban, BUET	12:45 PM - 2:00 PM	Lunch Break
	Room 705, IICT, ECE Bhaban	2:00 PM - 3:00 PM	Keynote Speech (Hybrid)
	Room 627/629, ECE Bhaban	3:00 PM - 4:30 PM	Technical Sessions 7,8
	Free Space (East Side) 6th floor, ECE Bhaban	4:30 PM - 4:45 PM	Tea Break
	Room 627/629, ECE Bhaban	4:45 PM - 6:15 PM	Technical Sessions 9,10
	Gala Dinner, The Aristocrat Lounge Dhanmondi	6:30 PM - 9:30 PM	Closing Ceremony & Awards

Technical Program Details

Day 1: Monday 21 October 2024

Inauguration Academic Council Bhaban, BUET		
Time		Event
8:45 AM – 9:45 AM		Registration
9:45 AM – 10:00 AM		Guests take their seats
10:00 AM – 10:45 AM		Inauguration Ceremony
10:45 AM – 11:00 AM		Tea Break

Invited Talk	
11:00 AM – 11:30 AM	Title: Navigating the Challenges of Machine Learning in
21 October 2024	Genomic Data Analysis
Monday	
	Speaker: Dr. Abu Asaduzzaman, Professor, Department of
Academic Council	ECE, Wichita State University, Kansas, USA
Bhaban, BUET	
2	Session Chair: Dr. Md. Liakot Ali, Professor, IICT, BUET

Tutorial	
11:30 AM – 12:30 PM	Title: Al based Cyber Security Research: From Data
21 October 2024	Preparation to Model Building
Monday	
	Speaker: Dr. Md Mahbubur Rahman, Professor,
Academic Council	Department of CSE, MIST, Dhaka
Bhaban, BUET	
	Session Chair: Dr. Md. Saiful Islam, Professor, IICT, BUET
	4001001

12:30 PM – 2:00 PM Lui	ınch & Prayer Break
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Keynote Speech	
2:00 PM – 2:45 PM 21 October 2024 Monday	Title: Current Trends and Future Prospects of Electric Vehicle Communication System
Room 705, IICT, ECE Bhaban, BUET	Speaker: Dr. Ishak Aris, Professor, Faculty of Engineering, Universiti Putra Malaysia, Serdang, Malaysia
(Hybrid)	Session Chair: Dr. M. Moshiul Hoque, Professor, Department of CSE, CUET

Technical Session - 1: Artificial Intelligence - 01 Session Chair: Dr. M. Imamul Hassan Bhuiyan, Professor, Department of EEE, BUET Paper ID **Paper Title and Author Details** 2:45 PM - 4:30 PM 14 Evaluating the Text Summarization Efficiency of 21 October 2024 Large Language Models Monday Mondol Mridul Provakar (Rajshahi University of Engineering & Technology)* Room 627, ECE 18 Integrating Feature Selection and Extraction with Bhaban, BUET Tuned Multilayer Perceptrons for Predicting Student Dropout Risk in Higher Education Md. Rakibul Haque (Rajshahi University of Engineering and Technology); Zannatul Ferdousee (Rajshahi University of Engineering & Technology)* 19 Brain Stroke Prediction using Explainable Machine Learning and Time Series Feature Engineering Safiul Haque Chowdhury (Bangladesh University)*; Mohammad Mamun (Bangladesh University); Mohammed Ibrahim Hussain (Bangladesh University); Md. Sadiq Iqbal (Bangladesh University) 32 Early-Stage Diabetes Risk Prediction utilizing Machine Learning with Explainable AI from Polynomial and Binning Feature Generation Mohammad Mamun (Bangladesh University)*; Safiul Haque Chowdhury (Bangladesh University); Mohammed Ibrahim Hussain (Bangladesh University); Md. Sadiq Iqbal (Bangladesh University) Unveiling Fake News with an Attention-Based CNN 42 Model Using Hybrid Features

		Francis Rudra D Cruze (Daffodil International University); Md. Faruk Hosen (Mawlana Bhashani Science and Technology University)*; Md. Suhag Ali (Daffodil International University); Md. Sarwar Mollah (Daffodil International University); Professor Dr Muhammad Shahin Uddin (Mawlana Bhashani Science and Technology University(MBSTU), Tangail-1902); Monir Morshed (Mawlana Bhashani Science and Technology University)
	45	Classification of Ovarian Cancer by Machine Learning models and its Analysis by Explainable Artificial Intelligence Sadia Alam Tumpa (North South University); Mohammad N Murshed (University of Tennessee)*
5000	49	Multi-Class Segmentation of Liver & Tumor From CT Images Using 2D U-Net With ResNet152 as Backbone Samiha Sumaia Joyeeta (Rajshahi University of Engineering & Technology (RUET))*; Md. Robiul Islam (Rajshahi University of Engineering & Technology (RUET)

Technical Session – 2: Computer Applications & Security – 01

Session Chair: Dr. Sajid Muhaimin Choudhury, Associate Professor, Department of EEE, BUET

	Paper ID	Paper Title and Author Details
2:45 PM – 4:30 PM 21 October 2024 Monday	9	English offensive text detection using CNN based Bi-GRU model Tonmoy Roy (Utah State University); Md. Robiul Islam (Uttara University)*; Asif Ahammad Miazee (Maharishi
Room 629, ECE Bhaban, BUET		International University); Anika Antara (Brac University); Al Amin (American International University Bangladesh); Md Sunjim Hossain (Northern University)
	55	Enhancing Transparency in DDoS Detection on SDN Using Explainable ML Models Md. Zobair Raihan (Bangladesh University of Engineering and Technology)*; Dr. Md. Saiful Islam (BUET)
	59	Statistical similarity measure for interpreting important features in machine learning Abdul Halim Bhuiyan (Bangladesh University of Engineering and Technology (BUET))*; Tayaba Khondoker Tinny (Bangladesh University of Engineering and Technology (BUET)); Mohammed Forhad Uddin (Bangladesh University of Engineering and Technology (BUET)

1001001	60	A Collection of Exploratory Data Analysis Techniques for Process Fault Detection in the Tennessee Eastman Dataset Anika Tasnim (Bangladesh University of Engineering and Technology)*; Sadman Nasif (Bangladesh University of Engineering and Technology); Nahid Sanzida (Bangladesh University of Engineering and Technology)
	81	Streamlining Global Visa Processing and Document Verification: A Self-Sovereign Identity System for Secure and Efficient Visa Processing using Hyperledger Indy. MD Saifur Rahman Chowdhury (Sylhet Engineering College)*; Nahiyan Habib Khan (Sylhet Engineering College); Dip Singha (Sylhet Engineering College); Tufael Ahmed (Sylhet Engineering College); Farhatul Hassan Chowdhury (Sylhet Engineering College); Monirul Islam Sarkar (University of Liberal Arts Bangladesh)
	85	Secured Text Based CAPTCHA using Customized CNN with Style Transfer and GAN based Approach T. M. Amir - UI - Haque H Bhuiyan (Bangladesh University of Engineering and Technology)*; Md. Anwar Hussen Wadud (Mawlana Bhashani Science and Technology University); Hossen A Mustafa (BUET)
	138	Enhancing the Capability of Single Error Correction and Double Error Detection Method Dr. Md. Sheikh Sadi (KUET)*; MD. Peyal Molla (KUET); Amanullah Asraf (KUET); Professor Dr. Md. Liakot Ali (Bangladesh University of Engineering and Technology)

4:30 PM – 4:45 PM	Tea Break

Technical Session – 3: Artificial Intelligence – 02

Session Chair: Dr. Md. Sheikh Sadi, Professor, Department of CSE, Khulna University of Engineering and Technology

	Paper ID	Paper Title and Author Details
4:45 PM – 6:15 PM 21 October 2024 Monday	64	Advanced Machine Learning Techniques for Accurate Diagnosis of Respiratory Diseases Using Vocal Biomarkers
Room 627, ECE		Mehadi Hasan Bijoy (Chittagong University of Engineering and Technology)*; Proloy Kumar Mondal
Bhaban, BUET	11	(Khulna University); Mohtasin Fuad (CUET); Diba Das (Chittagong University of Engineering and Technology)
1001	69	Enhanced CNN Approaches for Multi-Image Embedding in Image Steganography Md. Irtiza Hossain (Brac University)*; Sheikh Kadir (Brac University); Farhan Ishraq Fagun (Brac University); Ishtiaq Samiul (BRAC University); Rafi Zaman Saukhin (BRAC University); Muhammad Iqbal Hossain (BRAC University)
700	78	Advancing Monkeypox Diagnosis: A Novel Approach Using a Custom Neural Networks Md. Sayem Kabir (American International University - Bangladesh); Md Sadi Al Huda (Artificial Intelligence Research & Innovation Lab (AIRIL)); Kazi Tanvir (Vellore Institute of Technology); Fariha Tahseen Karim (Artificial Intelligence Research & Innovation Lab (AIRIL)); Md Musfikur Rahman Parvej (Artificial Intelligence Research & Innovation Lab (AIRIL)); SHAIF AHAMED TAMIM (Artificial Intelligence Research & Innovation Lab (AIRIL)); Md. Asraf Ali (American International University-Bangladesh)*
	83	Regional Heatwave Prediction Using Deep Learning Models In Bangladesh Sumaiya Siddiqua Mumu (Ahsanullah University of Science and Technology); Syeda Samia Sultana (Ahsanullah University of Science and Technology)*; Rafid Reezwan Fahim (Ahsanullah University of Science and Technology); Noshin Nawar Neha (Ahsanullah University of Science and Technology); Md. Shahriar Mahbub (Ahsanullah University of Science and Technology)
	84	Biologically Inspired Network Design to Train Only Through Forward Pass Md. Shahariar Hossain (BRAC University)*; Md Tasneemul Hassan (BRAC University); Md. Safaiat Hossain (Bangladesh Army University of Engineering and Technology)

95	Assisting the Visually Impaired with Situation
	Awareness: A New Perspective
	Sheezanul Hassan (IICT, BUET)*; Professor Dr. Md.
	Liakot Ali (Bangladesh University of Engineering and
	Technology); Dr. Muhammad Sheikh Sadi (Bangladesh
	University of Engineering and Technology)

Technical Session – 4: Signal Processing & Robotics – 01

	Danar ID	Panar Title and Author Pataila
4.45 DM C.45 DM	Paper ID	Paper Title and Author Details
4:45 PM – 6:15 PM	30	Exploring the Efficacy of Modified Transfer Learning
21 October 2024	07,	in Identifying Parkinson's Disease Through Drawn
Monday		Image Patterns
5 ASS 5ASS		Nabil Daiyan (Rajshahi University of Engineering and
Room 629, ECE		Technology)*; Md. Rakibul Haque (Rajshahi University
Bhaban, BUET	20	of Engineering and Technology)
	33	A Compact Wideband Patch Antenna for Ka-band
		and 5G mm-wavelength Applications
		Md. Shajib Hossain (Hajee Mohammad Danesh Science
		and Technology University); MD. Fazle Hasan Mihad
		(Hajee Mohammad Danesh Science and Technology University); Mahabuba Khatun (Hajee Mohammad
		Danesh Science and Technology University); Jannatun
		Ferdous (Hajee Mohammad Danesh Science and
		Technology University); Mahfujur Rahman (Hajee
		Mohammad Danesh Science and Technology
		University)*
	50	Exploring Protein-Protein Interactions Network,
		Prediction of Drugs and Association of Genes with
		Diseases among Anxiety, Insomnia and
		Depression: A Computational Biology Approach
		Urmi Bose (Department of Information and
		Communication Technology, Mawlana Bhashani Science
		and Technology University(MBSTU)); Mahadi Hasan
		Rooman (Mawlana Bhashani Science and Technology
		University); Md. Rakibul Hasan (Department of
		Software Engineering (SWE), Daffodil International
		University (DIU)); Denesh Das (Lamar University);
		Bikash Kumar Paul (Department of Information and
		Communication Technology, Mawlana Bhashani Science and Technology University)*
	53	A Deep Learning Based Approach for the
	33	Categorization of Actions in Cricket Videos
		Tanjum Motin Mitul (Chittagong University of
		Engineering & Technology); Musfequa Rahman
		(Chittagong University of Engineering & Technology);
		Kaushik Deb (Chittagong University of Engineering &
		Technology)*

61	Deep Learning Approach for Multi-label Detection of Abusive Bangla Social Media Comments Saieef Sarower Sunny (University of Liberal Arts Bangladesh)*; Dewan Rezwan Ahmed (none); Ahashan Habib (University of Liberal Arts Bangladesh); Sajida Kabir (University of Liberal Arts Bangladesh); Abdulla Masud (University of Liberal Arts Bangladesh); Dr. Nafees Mansoor (ULAB)
75	Integrated Bioinformatics and Machine Learning Analysis Reveals Shared Key Candidate Biomarkers and Therapeutic Targets in Ulcerative Colitis and Colorectal Cancer Sakib Sarker (Uttara University)*; Md. Faruk Hosen (Daffodil International University); Md. Abul Basar (Mawlana Bhashani Science and Technology University); Emon Ahammed (Mymensigh Engineering College)

Day 2: Tuesday 22 October 2024

Keynote Speech			
9:00 AM – 10:00 AM 22 October 2024 Tuesday	Title: Generative AI including Large Language Models for Social Good & Cyber-Security		
Room 705, IICT, ECE Bhaban, BUET	Speaker: Dr. Latifur Khan, Professor, Department of Computer Science, University of Texas at Dallas (UT Dallas)		
(Hybrid)	Session Chair: Dr. Hossen Asiful Mustafa, Professor, IICT, BUET		

Keynote Speech	
10:00 AM – 10:45 AM 22 October 2024	Title: Internet Civilization
Tuesday	Speaker: Dr. Jun Murai, Distinguished Professor, Keio University, Japan
Room 705, IICT, ECE	
Bhaban, BUET	Session Chair: Dr. Md. Saiful Islam, Professor, IICT,
	BUET
(Hybrid)	

10:45 AM – 11:00 AM	Tea Break
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Technical Session – 5: Artificial Intelligence – 03

Session Chair: Dr. M. Moshiul Hoque, Professor, Department of CSE, CUET

Session Chair. Dr. M. Moshidi Hoque, Froiessor, Department of CSE, COET			
	Paper ID	Paper Title and Author Details	
11:00 AM – 12:45 PM 22 October 2024 Tuesday	90	Prediction of Movie Box Office Success using YouTube Trailer Comments and Wikipedia Data Tasin Mohammad (Brac University)*; Najeefa Nikhat Choudhury (Brac University)	
Room 627, ECE Bhaban, BUET	91	Optimizing Privacy and Efficiency in Brain Tumor Classification through Advanced Non-IID Federated Deep Learning Dr. Md Samsuzzaman (Patuakhali Science and Technology University)*; Rakibul Hasan Sezan (Patuakhali Science & Technology University (PSTU)); Arjon Golder (Patuakhali Science And Technology University); Md Abdul A Masud (Patuakhali Science and Tech. University); Mohammad Muradul bashir (Patuakhali Science And Technology University)	
7007	94	ResViT: An Integrated Approach Using ResNet50v2 and Vision Transformer for Enhanced Bangla Handwritten Character Recognition Kazi Tanvir (Vellore Institute of Technology); Md Sadi Al Huda (Artificial Intelligence Research & Innovation Lab (AIRIL)); Md. Sayem Kabir (American International University - Bangladesh); Rezwan Obayed Nishan (Artificial Intelligence Research & Innovation Lab (AIRIL)); MD. FAHIM ATTEF (Artificial Intelligence Research & Innovation Lab (AIRIL)); Md. Asraf Ali (American International University-Bangladesh)*	
	100	Hybrid Method for Monitoring Sundarbans Mangrove Forest Using Satellite Images MD.Abdullah Al Naim (Ahsanullah University of Science and Technology); Shihab Sarar (Ahsanullah University of Science and Technology); Mahdi Hasan (Ahsanullah University of Science and Technology); Md Maruf Hossain Tasin (Ahsanullah University of Science and Technology); Omar Farrok (Ahsanullah University of Science and Technology)*	
	104	An Autoencoder-based Approach of Automatic Writer Identification from Biscriptual Characters Rifa Tabassum Mim (RUET)*; Shah Ariful Hoque Chowdhury (RUET); Al Nahian Mugdho (Rajshahi University of Engineering & Technology)	
	108	Utilizing Squeeze-and-Excite Mechanisms and Voting Ensembles Technique for Coffee Leaf Disease Detection	

	Imranul Islam Adnan (Ahsanullah University of Science and Technology)*; Mohammed Z Waughfa (Ahsanullah University of Science and Technology); Mohima Ahmed Joyee (University of Dhaka)
113	Early Diagnosis and Classification of Alzheimer's Disease Using Convolutional Neural Network based on MRI Images Salauddin Shanto (Rajshahi University of Engineering & Technology); Nazmul Haque (Rajshahi University of Engineering & Technology (RUET))*

Technical Session – 6: Computer Applications & Security – 02

Session Chair: Dr. Abu Asaduzzaman, Professor, Wichita State University, Kansas, USA

	Paper ID	Paper Title and Author Details
11:00 AM – 12:45 PM 22 October 2024 Tuesday Room 629, ECE Bhaban, BUET	86	Dynamic Authentication Scheme for Advanced Security in Federated Metaverse Systems Md Fuad Hasan (BRAC University)*; F.M. Ashfaq (BRAC University); Ahmed Awsaf Chowdhury (BRAC University); Shoeb Islam Hamim (BRAC University); Mustafiza Rahmani (BRAC University); Muhammad Iqbal Hossain (BRAC University)
	93	Analyzing and Forecasting Dew Point Temperature Trends in Bangladesh Md. Abdullah (Mawlana Bhashani Science and Technology University)*; Sajjad Waheed (Mawlana Bhasani Science and Technology University); Monir Morshed (Mawlana Bhashani Science and Technology University); Md. Mahmodul Hasan (BDU)
	120	A robust framework to secure IoT sensor data using Elliptic Curve Cryptography based CP-ABE and Secret sharing scheme Anika Bushra (Rajshahi University of Engineering & Technology)*; Mahit Kumar Paul (Rajshahi University of Engineering & Technology)
	136	Color-Based Auto-Rickshaw Detection Using Convolutional Neural Networks for Intelligent Transportation Systems Nakib Aman Turzo (Pabna University of Science and Technology)*; Md.Mehedi Hasan (Developer Experience Hub); Md Wadud Jahan (Varendra University)
	149	Enhancing Marine Radar Security Through Semi-Supervised Learning: A Self-Training Approach

		Md. Alamgir Hossain (Bangladesh University of Engineering and Technology (BUET))*; Md Delwar Hossain (Nara Institute of Science and Technology); Md. Sharafat Hossain (Bangladesh University of Engineering and Technology); Md. Saiful Islam (Bangladesh University of Engineering and Technology (BUET)); Professor Dr. Md. Mahbubur Rahman Rahman (Military Institute of Science and Technology (MIST)); Hossen A Mustafa (BUET)
	151	Secure and Transparent Driver Profiling Using Blockchain and IPFS for Smart Cities Raufar Mostafa (BRAC University)*; Maliha Jahan Maisha (BRAC University); Nafisa Muhammad (BRAC University); Shifath Jahan Prity (BRAC University); Muhammad Igbal Hossain (BRAC University)
2000	158	Environmental Sound Pollution Mapping Using Supervised Deep Learning Shadman Mahmood Khan Pathan (Old Dominion University)*; Sakan Binte Imran (Sir Salimullah Medical College); M M Shabab Iqbal (Kalinga Institute of Industrial Technology)

Keynote Speech	
2:00 PM - 3:00 PM	Title: Computational Approaches to Predict Natural
22 October 2024	Antibiotics based on Traditional Herbal Medicines
Tuesday	
	Speaker: Dr. Md. Altaf-Ul-Amin, Associate Professor,
Room 705, IICT, ECE	NAIST, Japan
Bhaban, BUET	
	Session Chair: Dr. Md. Liakot Ali, Professor, IICT, BUET
(Hybrid)	

Lunch & Prayer Break

12:45 PM – 2:00 PM

Technical Session – 7: Artificial Intelligence – 04

Session Chair: Dr. Mohammed Nasir Uddin, Professor, Department of ICT, Bangladesh University of Professionals (BUP)

	Paper ID	Paper Title and Author Details
3:00 PM – 4:30 PM	116	-
22 October 2024	116	Machine Learning Based Smart System For Blind
		and Visually Impaired People
Tuesday		Md Shadman Shakib (Noakhali Science and
Daam 607 505		Technology University)*; Md. Eyakub Ali (Noakhali Science & Technology University); Robin Khisa
Room 627, ECE		(Noakhali Science & Technology University); K. Zaman
Bhaban, BUET	-47	(Noakhali Science and Technology University); N. Zaman (Noakhali Science and Technology University); Subrata
- 0	01.	Bhowmik (Noakhali Science and Technology University)
,00	118	Exploring Transformer and Recurrent Neural
100	110	Models for Sentiment Analysis of Mobile App
		Reviews
		George Tonmmoy Roy (Khulna University of
		Engineering and Technology (KUET))*; Dipannita
		Biswas (Khulna University of Engineering &
		Technology)
9	129	DeepResVit: A Hybrid Deep Learning Approach for
		Ovarian Cancer Classification with XAI
		Aurnob Al Rafi (American International
		University-Bangladesh(AIUB)); Tahmid Enam Shrestha
		(American International University-Bangladesh); Md
		Sadi Al Huda (Artificial Intelligence Research &
		Innovation Lab (AIRIL)); SHAIF AHAMED TAMIM
		(Artificial Intelligence Research & Innovation Lab
		(AIRIL)); Ridwan Ahmed Arman (Artificial Intelligence
		Research & Innovation Lab (AIRIL)); Md. Asraf Ali
	142	(American International University-Bangladesh)*
	144	Semantic Segmentation in Satellite Imagery: An Attentive U-Net Approach
		Nafisa Islam (CUET)*; Md. Farhad Hossain (Chittagong
		University of Engineering and Technology); Md. Azad
		Hossain (Chittagong University of Engineering and
		Technology)
	144	YOLO Goes Green: Unveiling Sundarbans
	• • •	Biodiversity using Leaf Image Classification
		Md. Nazmul Hossain Shishir (Khulna University); Aminul
		Islam (Khulna University)*; Md. Sajjad Hossain Tuhin
		(Khulna University); Mohammad Siddique (Khulna
		University); Md Nazrul Islam (Khulna University)
	148	An Adaptive Machine Learning Approach for
		Electrical Fault Detection and Minimization

Md. Emran Biswas (Hajee Mohammad Danesh Science and Technology University)*; Md Sayem Ahamed (United International University); Md. Abid Hasan Rafi (Hajee Mohammad Danesh Science and Technology University); Md Dulal Haque (Hajee Mohammad
Danesh Science and Technology University)

Technical Session – 8: Telecommunications & IoT – 01

Session Chair: Dr. Fahmida Hossain Tithi, Associate Professor, Department of EEE, Daffodil International University

	Danar ID	Denov Title and Author Details
0.00 DM 4.00 DM	Paper ID	Paper Title and Author Details
3:00 PM – 4:30 PM	34	Gesture Controlled Bot with Temperature &
22 October 2024	0.	Humidity (TH) Sensing Features
Tuesday		Mohammad Tahsin Alam (Bangladesh University of
		Engineering and Technology (BUET)); Yasir Mahmud
Room 629, ECE		(Bangladesh University of Engineering and
Bhaban, BUET		Technology); Zafrin J Nikita (Bangladesh University of
		Engineering and Technology); Dr. Sajid Muhaimin
		Choudhury (Bangladesh University of Engineering &
		Technology (BUET))*
	44	IoT-based Smart Water Consumption Monitoring
		System for Residential Complex
		Imtiaz Ahamed (Bangladesh University of Engineering
		and Technology); Professor Dr. Md. Liakot Ali
		(Bangladesh University of Engineering and
		Technology); Nazmus Salehin (Bangladesh University
	10	of Engineering and Technology)*
	46	Modeling of 5G-Enabled Hybrid Visible Light
		Communication Systems for Autonomous Vehicles
		Muhammad Towfiqur Rahman (University of Asia
		Pacific)*; A S M Bakibillah (Tokyo Institute of
		Technology); Aloke Kumar Saha (University of Asia Pacific)
	79	
	79	Wi-Fi CSI-based Vibration Sensing for Industrial
		Fault Detection
		Tahsin Azad Tias (Chittagong University of Engineering
		and Technology)*; Dr. Asaduzzaman (Chittagong
	98	University of Engineering and Technology)
	90	A Multi-Band Microstrip Patch Antenna for
		Application in Wireless Communication Systems
		Md. Nasrulla Khan (Khulna University of Engineering & Technology)*; Dr. Sk. Shariful Alam (Khulna University);
		Priti Bose (Khulna University of Engineering &
		Technology (KUET))
		rediffology (NOL1))

4 00 014 4 45 014		
4:30 PM – 4:45 PM	Tea Break	
T.50 W - T.75 W	ica bicak	

Technical Session – 9: Signal Processing & Robotics – 02

Session Chair: Dr. Muhibul Haque Bhuyan, Professor, Department of EEE, American International University-Bangladesh (AIUB)

	Papar ID	Paper Title and Author Details
4:45 PM – 6:15 PM	Paper ID 68	Paper Title and Author Details Enhanced Image Colorization through Generative
22 October 2024	00	Adversarial Network
Tuesday		Md. Khairul Islam (Chittagong university of Engineering
laccady		and Technology); Nusrat Jahan Igra (CUET); Rifa
Room 627, ECE		Nawal (Chittagong University of Engineering and
Bhaban, BUET		Technology); Md. Al-Mamun Provath (Chittagong
		University of Engineering and Technology)*
	88	Fetal Head Segmentation and Head Circumference
	0.1,	Measurement Using Residual U-net
201		Limon Halder (KUET)*; Shetu Mohanto (Khulna
400		University Of Engineering & Technology (KUET));
	00	Monira Islam (EEE, KUET); Md Tasnim Jawad (KUET)
	89	Leveraging Attention Mechanisms in Vision
		Transformer for Human Activity Recognition Abir Hassan (Chittagong University of Engineering and
		Technology)*; Md. Shihab Hossain (Green University of
		Bangladesh); Kaushik Deb (Chittagong University of
9		Engineering & Technology)
	135	LIME-RAY: What Does a Neural Network See from
		X-Rays?
		Ayon Datta (Ahsanullah University of Science and
		Technology); Wasif Al Wazed Wasi (Rajshahi University
		of Engineering & Technology); Fahim Muntasir (BRAC
		University)*; Mahdee Nafis (Rajshahi University of
	1.45	Engineering and Technology)
	145	Enhancing Heart Disease Diagnosis with Machine
		Learning Algorithms: An Evaluation on Imbalanced Data and Performance Metrics
		Nimur Rahman (Faridpur Engineering College,
		University of Dhaka)*; Md. Ashif Mahbub (Islamic
		University of Technology); Md. Hasib Mahbub
		(Bangladesh Army University of Science and
		Technology, Saidpur)
	152	V-Shopper: A Virtual Automatic Shopping System
		Based on 5 DOF Robotic Arm with Real-Time
		Product Visualization and Billing
		Tamim Hasan Bhuiyan (Bangladesh University of
		Engineering & Technology g)*; Md. Asif Kabir
		(Bangladesh University of Engineering and Technology); Shaikh Anowarul Fattah (BUET)
	160	A Bioinformatics Approach to Identify Hub Genes
	100	Across Schizophrenia, Anxiety, Bipolar Disorder,
		and Depressive Disorder for Network-Based Drug
		Discovery
L		2.000101

Md. Emran Biswas (Hajee Mohammad Danesh Science and Technology University)*; MD Galib Hasan (Hajee Mohammad Danesh Science and Technology University); Md. Jobare Hossain (Hajee Mohammad Danesh Science and Technology University); Md. Abul Basar (Uttara University); Md. Selim Hossain (Hajee Mohammad Danesh Science and Technology
University)

Technical Session – 10: Telecommunications & IoT – 02

Session Chairs: Dr. Md. Forkan Uddin, Professor, Department of EEE, BUET & Dr. Tahsina Farah Sanam, Associate Professor, IAT, BUET

	Donor ID	Daney Title and Author Dataile
4.45 DM C.45 DM	Paper ID	Paper Title and Author Details
4:45 PM – 6:15 PM	122	Enhancing Fire Safety: Encoder-Decoder Based
22 October 2024		Detection and IoT-Driven Response System
Tuesday		George Tonmmoy Roy (Khulna University of
		Engineering and Technology (KUET))*; AtiquI Islam
Room 629, ECE		Atik (Khulna University of Engineering & Technology);
Bhaban, BUET		Masudur Rahman Rabby (KUET); Md. Repon Islam
	400	(Khulna University of Engineering & Technology)
2	123	Gain Enhancement of a Double-Sided MIC
		Technology-Inspired Microstrip Array Antenna
		Using FSS Reflector
		Muhammad Asad Rahman (Chittagong University of
		Engineering and Technology (CUET)); Md. SSC Manjur
		(Chittagong University of Engineering and Technology)*;
		Anoy Roy (Chittagong University of Engineering and
		Technology); Eisuke Nishiyama (Saga University);
	404	Ichihiko Toyoda (Saga University)
	134	An Improved Dependent Task Offloading in
		Device-Edge-Cloud using Favorite Predecessor
		Task
		MD. Sakhawat Hossain (Khulna University of
		Engineering and Technology)*; Dr. M. M. A. Hasehm
	141	(KUET)
	141	Performance analysis of hybrid DRA-SOA for WDM
		based fiber optic transmission system
		Fahmida Tithi (Daffodil international University)*; Foysal Ahmed (Daffodil International University); MD
		Tanjit (Daffodil International University); MD ARIF MIA
		(Daffodil international University)
	150	Designing of a PCF Based Ultra-High Negative
	130	Dispersion Compensation for Optical Transmission
		Link
		Md. Ibadul Islam (Bangladesh University of Engineering and Technology)*; Md. Saiful Islam (Bangladesh
		University of Engineering and Technology (BUET))
		Oniversity of Engineening and Technology (BOET))

Closing Ceremony and Awards				
Time	Event			
6:30 PM	Transportation From ECE Bhaban, BUET, towards Dhanmondi			
7:30 PM – 9:00 PM	Gala Dinner at The Aristocrat Lounge, 9/A Satmasjid Road, Dhaka 1205 Dhanmondi			
9:00 PM – 9:15 PM	Award Giving Ceremony			
9:15 PM – 9:30 PM	Closing Speech			

