

**2021 International Conference on
4th Industrial Revolution and Beyond (IC4IR2021)**

Programme

December 10-11, 2021

Dhaka, Bangladesh (in Virtual Mode)

<https://www.ic4irb.org/>



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All times are in **GMT+6**

Meeting link (Zoom) for all Plenary and Keynote Sessions:

Meeting ID: 620 6656 9461

Short Programme




Day 1: Friday – December 10, 2021		
Time	Technical Sessions	Industrial Talks
9:30 - 11:00	Technical Session (D1TS1- D1TS6) Virtual	<p>D1IAC-I: (Virtual) Applications of NPL in the era of 4IR.</p> <p>Zoom link: https://bdren.zoom.us/j/67535978922 Meeting ID: 675 3597 8922</p> <p>D1IAC-II: (Virtual) Digital Health Inclusion to Achieve Universal Health Coverage in the Era of 4IR</p> <p>Zoom link: https://bdren.zoom.us/j/68213944736 Meeting ID: 68213944736</p> <p>D1IAC-III: Prospective of Industry-Academia Collaboration Towards Education 4.0 Venue – Harmony (BICC)</p> <p>Zoom link: https://bdren.zoom.us/j/67535978922 Meeting ID: 675 3597 8922</p>
11:00 - 11:30	Networking Session and Coffee Break	
11:30 - 13:00	Opening Ceremony Venue: Hall of Fame	
13:00 - 14:15	Networking Session and Lunch Break	
14:15-14:50	D1IAC-IV: Mujib 100 Industrial Exhibition MoU Signing Ceremony Venue: Hall of Fame (BICC) Zoom link: https://bdren.zoom.us/j/68213944736 Meeting ID: 68213944736	

15:00-15:45	Plenary Session-1 Hybrid- Hall of Fame Zoom link: https://bdren.zoom.us/j/62066569461 Zoom Meeting ID: 620 6656 9461		
15:45-17:00	Technical Session (D1TS7- D1TS12) Virtual	Mujib 100 Idea Contest Venue: In front of Hall of Fame	D1IAC-IV: AIUB. Venue – hybrid & Harmony (BICC) zoom link : https://bdren.zoom.us/j/67535978922 zoom Meeting ID: 675 3597 8922
17:00-18:30	Technical Session (D1TS13- D1TS18) Virtual		D1IAC-V: Daffodil Family. Venue – hybrid & Harmony (BICC) zoom link : https://bdren.zoom.us/j/67535978922 Meeting ID: 675 3597 8922
18:30 - 20:00	Keynote Session-1 Venue: Hybrid- Hall of Fame Zoom link: https://bdren.zoom.us/j/62066569461 Zoom Meeting ID: 620 6656 9461		D1IAC-VI: Project Exhibition: University & Industry. Venue – Hybrid & Harmony (BICC) zoom link : https://bdren.zoom.us/j/67535978922 Meeting ID: 675 3597 8922
20:00-21:00	Plenary Session- 2 Venue: Hybrid- Hall of Fame Zoom link: https://bdren.zoom.us/j/62066569461 Zoom Meeting ID: 620 6656 9461		

Day 2: Saturday – December 11, 2021		
Time	Technical Sessions	Industrial Talks
8:30 - 10:00	Keynote Session-2 Venue: Hybrid- Hall of Fame Zoom link: https://bdren.zoom.us/j/62066569461 Zoom Meeting ID: 620 6656 9461	
10:00 - 12:00	Keynote Session-3 Venue: Hybrid- Hall of Fame Zoom link: https://bdren.zoom.us/j/62066569461 Zoom Meeting ID: 620 6656 9461	D2IAC-VII: Technical Talk by LG Venue – Hybrid & Harmony (BICC) zoom link : https://bdren.zoom.us/j/67535978922 Meeting ID: 675 3597 8922
12:00 - 13:00	Networking Session and Lunch Break	

<p>13:00 - 14:00</p>	<p>Plenary Session- 3 Venue: Hybrid- Hall of Fame Zoom link: https://bdren.zoom.us/j/62066569461 Zoom Meeting ID: 620 6656 9461</p>	
<p>14:00-15:30</p>	<p>Interactive Session-- ABC for Industry 4.0 Venue: Hybrid- Hall of Fame</p>	<p>D2IAC-VIII: Women in Entrepreneurship & Industry in the Digital Economy Venue – Media Bazar (BICC)</p> <p>zoom link : https://bdren.zoom.us/j/66254456677 Meeting ID: 662 5445 6677</p> <p>D2IAC-IX: “Exploring Environmental Conservation and Agricultural Development in the context of Fourth Industrial Revolution”: IUB Venue –Hybrid & Harmony (BICC)</p> <p>zoom link : https://bdren.zoom.us/j/67535978922 Meeting ID: 675 3597 8922</p>
<p>15:30-17:00</p>	<p>Technical Session (D2TS19- D1TS21) Virtual</p>	<p>D2IAC-X: Industry and Academia Linkage in the Age of 4IR: FBCCI & DCCI Venue – Harmony (BICC)</p> <p>Venue –Hybrid & Harmony (BICC)</p> <p>zoom link : https://bdren.zoom.us/j/67535978922 Meeting ID: 675 3597 8922</p>
<p>17:00-18:00</p>	<p>Keynote Session-4 Venue: Hybrid- Hall of Fame Zoom link: https://bdren.zoom.us/j/62066569461 Zoom Meeting ID: 620 6656 9461</p>	<p>D2IAC-XII: IAC Certificate Giving Event Venue – Harmony (BICC)</p> <p>Venue –Hybrid & Harmony (BICC)</p> <p>zoom link : https://bdren.zoom.us/j/67535978922 Meeting ID: 675 3597 8922</p>
<p>18:00 - 20:00</p>	<p>Closing and Prize giving Ceremony Venue: Hall of Fame</p>	

Detail Programme

<p>Day 1: Friday – December 10, 2021 9.30 to 11.00 D1TS1: AI for Smart City Applications Session Chair: Prof. Dr. K. M. Azharul Hasan, KUET Prof. Dr. Al-Mamun, RUET Zoom Meeting Link: https://bdren.zoom.us/j/61201456608 Session Moderator: Parag Choudhury Support Partners:</p> <div style="display: flex; justify-content: center; gap: 20px;">    </div>	
9:30 - 9:45	<p>PID 6 Computer Vision-based Waste Detection and Classification for Garbage Management and Recycling <i>S M Yeaminul Islam (Robi Axiata Limited)*; Golam Rabiul Alam (BRAC University)</i></p>
9:45 - 10:00	<p>PID 59 An Adaptive Hybrid Particle Swarm Optimization for UAV Path Planning in 3D Environment <i>Golam Moktader Nayeem (University of Electronic Science and Technology of China)*; Mingyu Fan (University of Electronic Science and Technology of China); Golam Moktader Daiyan (University of Electronic Science and Technology of China); Yasmin Akhter (Southern University)</i></p>
10:00-10:15	<p>PID 88 A System dynamics approach of decisive policy measures for sustainable municipal solid waste management in Khulna city of Bangladesh <i>S. M. Rafew, Dr. Md. Rafizul Islam</i> <i>Khulna University of Engineering and Technology</i></p>
10:15 - 10:30	<p>PID 310 Prediction of Soil Nutrients using Hyperspectral Satellite Imaging <i>Sumsuttibriz Riad; Md.Sojib Ahmed; Mahammudul Hassan Himel; Md Rayhan Ahmed; Md.Mynul hasan; Ahsan Habib Mim; Akib Zaman; Salekul Islam; Md. Saddam Hossain Mukta</i> <i>United International University</i></p>
10:30-10:45	<p>PID 507 A Machine Learning Approach to Season Prediction Based on Agricultural Input Orders <i>Majwega Jackson (Brac University)</i></p>
10:45-10:55	<p><i>Certificate hand over and closing of the session</i></p>


<p>Day 1: Friday – December 10, 2021 9.30 to 11.00 D1TS2: Automation for Real Life Applications</p>
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<p>Zoom Meeting Link: https://bdren.zoom.us/j/67650363976</p> <p>Session Chair: Prof Dr Mohammad Mahfuzul Islam, Vice-Chancellor, Canadian University of Bangladesh Prof Dr Aktaruzzaman Liton, DIU</p> <p>Session Moderator: Saif Ahmed</p> <p>Support Partner:</p> <div style="display: flex; justify-content: center; gap: 20px;">    </div>	
9:30 - 9:45	<p>PID 77 Automatic pH Controlling System of Dyeing Machine <i>Mynul Islam; Md. Rafiqul Islam; Md. Harunur Rashid Bhuiyan; Tarik Reza Toha; Anupom Mondol; Prof. Dr. Shaikh Md. Mominul Alam</i> Bangladesh University of Textiles</p>
9:45 - 10:00	<p>PID 165 IoT based Automated Crack and Object Identifier Vehicle for Railway System <i>Tareq Anwar Shikdar, Fahad Bin Ayub, Sekh Faisal (Leading University); Md. Moontasir Rashid</i> Leading University</p>
10:00-10:15	<p>PID 179 An EEG-based Intelligent Neuromarketing System for Predicting Consumers' Choice <i>Fazla Rabbi Mashrur (Khulna University of Engineering & Technology); Khondaker Abdullah-Al-Mamun (United International University)</i></p>
10:15 - 10:30	<p>PID 203 Temperature and Current Density Analysis of Thermoelectric Generator for Regenerative Breaking of the Hybrid Electric Vehicle <i>MD. Zilan Uddin Saif, Farhan Tasnim, Md Abu Hanif, Md Rasel Ahmed, Kawshik Shikder, Chowdhury Akram A Hossain</i> American International University-Bangladesh</p>
10:30-10:45	<p>PID 244 LANDCHAIN: A Blockchain-Based Lightweight Land Administration System for Bangladesh <i>Fardin Ahmed Niloy (American International University-Bangladesh (AIUB)); Md. Nozib Ud Dowlah (AIUB); Md. Samiul Alam (AIUB); Jobair Hossain (AIUB); Fahim Muntasir (AIUB); Shahadat Hossain (City University); Md. Manzurul Hasan (AIUB)</i></p>
10:45-10:55	<p><i>Certificate hand over and closing of the session</i></p>


<p>Day 1: Friday – December 10, 2021 9.30 to 11.00</p> <p>D1TS3: IoT and Smart Agriculture -1</p> <p>Zoom Meeting Link: https://bdren.zoom.us/j/68645045252</p>
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<p>Session Chair: Prof Dr Farhad Hossain, BUET Dr. Mohammad Ali Moni, University of Queensland, Australia Session Moderator: Md. Akiful Hoque Support Partner:</p> <div style="display: flex; justify-content: center; gap: 20px;">    </div>	
9:30 - 9:45	<p>PID 43 Towards Devising a Soil Parameter Monitoring System to Improve Plant Irrigation Khadiza Newaz*; Afsana Akhter; Umama Tanisha; Md. Harunur Rashid Bhuiyan; Tarik Reza Toha; Shaikh Md. Mominul Alam Bangladesh University of Textiles</p>
9:45 - 10:00	<p>PID 161 Design and Simulation of a Trans-impedance Based Instrumental Circuit for Weevil Repelling <i>Md Abdul Awal (BAU)</i></p>
10:00-10:15	<p>PID 171 IOTA-based Efficient and Reliable Scheme for Internet of Vehicles <i>Tamara Islam Meghla (JU); Md Whaiduzzaman (JU)*; Alistair Barros (Queensland University of Technology); Md.Julkar Nayeem Mahi (JU); Mehdi Sookhak (Texas A&M University); Colin Fidge (Queensland University of Technology); Rajkumar Buyya (The University of Melbourne)</i></p>
10:15 - 10:30	<p>PID 238 DIIGMCS - Design and Implementation of IoT based Greenhouse Monitoring and Controlling System <i>Avizit Chowdhury Bappa; Moon Chowdhury; Golap Kanti Dey ; M R Karim Chittagong Independent University</i></p>
10:30-10:45	<p>PID 243 Remote Measurement of Nitrogen and Leaf Chlorophyll concentration Using UAV-based Multispectral imagery from Rice Crop Field in Sri Lanka <i>Piyumi P Dharmaratne (Wayamba University of Sri Lanka)*; A.S.A Salgadoe (Wayamba University of Sri Lanka); W.M.U.K. Rathnayake (Rice Research and Development Institute); A.D.A.J.K. Weerasinghe (Retail Information Technologies Pvt Ltd.); D. N. Sirisena (Rice Research and Development Institute); W. M. N. Wanninayaka (Rice Research and Development Institute)</i></p>
10:45-10:55	<p><i>Certificate hand over and closing of the session</i></p>

<p>Day 1: Friday – December 10, 2021 9.30 to 11.00 D1TS4: Data Analysis and Cloud Computing - 1 Zoom Meeting Link: https://bdren.zoom.us/j/62944318902 Session Chair: Prof Dr M. Shahidur Rahman, SUST Dr Ashrafal Alam, BRACU Session Moderator: Nafisa Ahmed</p>
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Support Partner: 	
9:30 - 9:45	PID 166 Global Warming and Bangladesh: A Machine Learning Approach to Analyze the Warming Rate Utilizing Neural Network <i>Tamal Joyti Roy; Md. Ashiq Mahmood</i> <i>Khulna University of Engineering and Technology</i>
9:45 - 10:00	PID 183 An Empirical Analysis of IT-Software Job Skill Requirements during COVID-19 pandemic period in Bangladesh <i>Md. Masudul Islam; Mijanur Rahaman; Md. Saiful Rahman</i> <i>Bangladesh University of Business and Technology</i>
10:00-10:15	PID 207 Adaptation of Blockchain Technology in the Mobile Banking System in the Context of Bangladesh <i>Md. Mainul Islam Roni (DUET)*; Mohammad Abul Kashem (DUET); Sonia Akter (DUET); Fahmida Akter (BUP); Muhammad Riaz Hasib Hossain (IUBAT); Mohammad Asaduzzaman Chowdhury (DUET)</i>
10:15 - 10:30	PID 208 Predicting Interest of Beginner Level Engineering Students for Better Career Using Classification Method <i>Dr. Mohammad Aman Ullah*; Mohammad Manjur Alam; Saira Akter Sheuli; Jisrat Alam Mumu</i> <i>International Islamic University Chittagong</i>
10:30-10:45	PID 209 Factors responsible for fluctuations in road accidents A statistical investigation of road accidents in Bangladesh <i>Shakera Khandaker Sahee*; Sharna Das; Dr. Sajjad Waheed; Shakera Khandaker Sahee Mawlana</i> <i>Bhashani Science and Technology University</i>
10:45-10:55	<i>Certificate hand over and closing of the session</i>

Day 1: Friday – December 10, 2021
 9.30 to 11.00
D1T55: Signal and Natural Language Processing - 1
Zoom Meeting Link: <https://bdren.zoom.us/j/65474744960>
 Session Chair: Prof Dr Md Rashed Mostafa, CU
 Prof. Dr. Kazi Abu Taher, BUP
Session Moderator: Mahmudul Haque
Support Partner:

	
9:30 - 9:45	<p>PID 07 Performance Analysis and Implementation of Pre-trained Model Using Transfer Learning on Bangla Document Clustering <i>Arefin Niam (Shahjalal University of Science and Technology)*</i></p>
9:45 - 10:00	<p>PID 94 Bangla Speech-to-Braille Interaction Device for Visual and Hearing Impaired <i>Rafia Rizwana Rahim; Atik Ishrak Al Nahian; RAKIBA BENTA KALAM; Atanu Sen Gupta; Nusrat Binta Nizam</i> <i>Bangladesh University of Engineering and Technology</i></p>
10:00-10:15	<p>PID 117 Particle swarm optimized DWT-SVD watermarking scheme for securing EEG data <i>Akash Kumar Gupta (BIT Deoghar)*; Chinmay Chakraborty (BIT Mesra,India); Bharat Gupta (NIT-Patna)</i></p>
10:15 - 10:30	<p>PID 192 Urgent Text Detection in Bengali Language Based on Boosting Techniques <i>Rafsan Rahman; Tamanna Nazmin; Noor Nafeur Rahman; Miyad Bhuiyan; G. M. Shahariar; Faisal Muhammad Shah*</i> <i>Ahsanullah University of Science and Technology</i></p>
10:30-10:45	<p>PID 309 A Hybrid Deep Learning Approach to Detect Bangla Social Media Hate Speech <i>Tapotosh Ghosh (Northern University Bangladesh)*; Ashraf Alam Khan Chowdhury (Northern University Bangladesh); Md. Hasan Al Banna (Bangladesh University of Professionals); Md. Jaber Al Nahian (Bangladesh University of Professionals); Mohammed Shamim Kaiser (Jahangirnagar University); Mufti Mahmud (Computing and Technology, Nottingham Trent University, Nottingham)</i></p>
10:45-10:55	<p><i>Certificate hand over and closing of the session</i></p>

Day 1: Friday – December 10, 2021
9.30 to 11.00
D1TS6: Network Security - 1
Zoom Meeting Link: <https://bdren.zoom.us/j/62712162472>
Session Chairs: Prof Dr Abdur Rahman, AIUB
Prof Dr Md Hossam -E- Haider, MIST
Session Moderator: Mazeda Zafor Meem
Support Partner:

	
9:30 - 9:45	<p>PID 48 Reducing Product Counterfeiting Using Blockchain Technology in E-commerce Business <i>Md. Rashed Bhuiyan (DUET)*; Mohammad Abul Kashem (DUET); Fahmida Akter (BUP); Salma Parvin (JU)</i></p>
9:45 - 10:00	<p>PID 61 Organizational Network Monitoring and Security Evaluation using Next Generation Firewall (NGFW) <i>Md. Shamimul Islam*; Nayan Datta; Md. Imran Hossain Showrov; Md Mahabub Alam; Md. Haidar Ali; Dr. Md. Dulal Hossain</i> <i>Bangladesh Atomic Energy Commission</i></p>
10:00-10:15	<p>PID 82 Towards Developing a Smart Air Quality Monitoring and Security System to Ensure Workplace Health and Safety <i>Faria Tashnim Mazumder*; Pritom Goswami; Tarik Reza Toha; Anupom Mondol; Shaikh Md. Mominul Alam</i> <i>Bangladesh University of Textiles</i></p>
10:15 - 10:30	<p>PID 158 Traffic Analysis Based Android SMS Malware Detection Using Machine Learning <i>Rahela Mim Kanis*; Sumona Akter Tisha; Kallul Roy Kalpo; Mehedi Hasan Bakul; Md Shakhawat Hossain</i> <i>American International University Bangladesh</i></p>
10:30-10:45	<p>PID 181 Towards Tolerating Soft Errors for Network Data Packets <i>Rumana Afrin (KUET)*; Dr. Md. Sheikh Sadi (KUET); Professor Dr. Md. Liakot Ali (BUET)</i></p>
10:45-10:55	<p><i>Certificate hand over and closing of the session</i></p>

Day 1: Friday – December 10, 2021
 15.00 to 15.45
Plenary Session-1
 Zoom Link: <https://bdren.zoom.us/j/62066569461>
 Meeting ID: 620 6656 9461
Session Chair:
Prof. Dr. Muhammed Alamgir, UGC of Bangladesh
Md. Sabur Khan, Chairman, Daffodil Family
Session Moderator:

Title: *Materials for the Future*

Dr. Konstantin Novoselov, Nobel Laureate, Physics - 2010

The University of Manchester, UK

National University of Singapore, Singapore

Day 1: Friday – December 10, 2021

15.45 to 17.00

D1TS7: AI for Detection and Prediction -1

Zoom Meeting Link: <https://bdren.zoom.us/j/61201456608>

Session Chairs:

Dr Delwar Hossain, Univ. of Calgary, Canada

Dr Md. Golam Rashed, RU

Session Moderator: Nafisa Tabassum Navia

Support Partner:




<p>15:45 - 16:00</p>	<p>PID 34 HandFruitNet: A Deep Learning Based Model for Fruits Classification from Hand Nusrat Nusrat Jahan (International Islamic University Chittagong); Sazeda Akter Rimi (International Islamic University Chittagong (IIUC)); Md. Khaliluzzaman (International Islamic University Chittagong (IIUC))</p>
<p>16:00 - 16:15</p>	<p>PID 56 Entrepreneurship education and entrepreneurial intention of business graduates: Does Artificial Intelligence matter? <i>Md. Mizanur Rahman (BRAC University)*; Md. Saidur Rahaman (Metropolitan University Sylhet); Iqbal Hossain Moral (Northern University of Business and Technology Khulna); Md. Solaiman Chowdhury (Rajshahi University)</i></p>
<p>16:15-16:30</p>	<p>PID 73 A Machine Learning Approach for Phishing Websites Prediction with Novel Feature Selection Framework <i>Pankaj Bhowmik (Hajee Mohammad Danesh Science and Technology University)*; Pulak Chandra Bhowmik (Stamford University Bangladesh)</i></p>
<p>16:30 - 16:45</p>	<p>PID 169 The efficacy of deep learning based LSTM model in forecasting the outbreak of contagious diseases <i>Nurul Absar (BGC Trust University); Md. Nazim Uddin (BGC Trust University); Mayeen U Khandaker (Sunway University)*; Md. Habib Ullah (American International University-Bangladesh)</i></p>
<p>16:45-17:00</p>	<p>PID 177 An LSTM-Based Forecast Of COVID-19 For Bangladesh <i>Ashifur Rahman*; Md. Akbar Hossain; Mohasina Jannat Moon Bangladesh University of Business and Technology</i></p>

Day 1: Friday – December 10, 2021


15.45 to 17.00

D1TS8: AI for Everyday Lives

Zoom Meeting Link: <https://bdren.zoom.us/j/67650363976>

<p>Session Chairs: 1. Prof. Dipankar Das, Toyohashi Univ of Tech, Japan 2. Dr Ahmed Wasif Reza, EWU, Bangladesh Session Moderator: Sofia Noor Rafa Support Partner:</p> 	
15:45 - 16:00	<p>PID 210 Machine Learning-based Physical Exercise Identification with Heuristic Optimized Features Prioritization <i>Proloy Kumar Mondal (Khulna University); Md Abdul Awal (Khulna University); Abdullah-AI Nahid (Khulna University)*</i></p>
16:00 - 16:15	<p>PID 212 Modelling Lips-State Detection Using CNN for Non-Verbal Communications <i>Abtahi Ishmam; Mahmudul Hasan; Md Saif Hassan Onim*; Koushik Roy; Md. Akiful Hoque Akif; Hussain Nyeem</i> <i>Military Institute of Science and Technology</i></p>
16:15-16:30	<p>PID 292 Neurophysiological Feature Based Stress Classification using Unsupervised Machine Learning Technique <i>Md. Rokonzaman Reza*; Moumita Bhowmik; Naim Ibna Khadem Al Bhuyain; Nafiz Intiaz Khan; Muhammad Nazrul Islam</i> <i>Military Institute of Science and Technology (MIST)</i></p>
16:30 - 16:45	<p>PID 344 Depression Level Prediction during Covid-19 Pandemic among the People of Bangladesh using Ensemble Technique: MIRF Stacking and MIRF Voting <i>Anik Pramanik; Md Hasan Imam Bijoy*; Md. Sadekur Rahman</i> <i>Daffodil International University</i></p>
16:45-17:00	<p>PID 468 A Cyber-Physical Fusion System for Stress Detection Using Multimodal and Social Media Data <i>Jasiya Fairiz Raisa (Bangladesh University of Professionals)*; Sobhana Jahan (Bangladesh University of Professionals); M Shamim Kaiser (Jahangirnagar University)</i></p>

<p>Day 1: Friday – December 10, 2021 15.45 to 17.00 D1TS9: IoT and Smart Agriculture - 2 Zoom Meeting Link: https://bdren.zoom.us/j/68645045252 Session Chairs: Prof Abdullah-AI Nahid, KU Dr Shamim Al Mamun, JU Session Moderator: Akib Chowdhury Support Partner:</p>

	
15:45 - 16:00	<p>PID 254 A Method and Design for Developing an IoT-based Automated Sanitization System Powered by Sustainable Earth-Battery <i>Md. Sayeduzzaman*</i>; <i>Md. Samiul Islam Borno</i>; <i>Khadija Yeasmin Fariya</i>; <i>Md Tamim Ahmed Khan</i> American International University-Bangladesh</p>
16:00 - 16:15	<p>PID 284 IoT based decision making of irrigation and fertilizer management for marginal farmers in Bangladesh <i>Wahid Anwar</i>; <i>Tanvir Quader</i>; <i>Mudassir Zakaria</i>; <i>Md. Motaharul Islam</i> United International University</p>
16:15-16:30	<p>PID 324 Monitoring & Controlling of Smart Irrigation System <i>MD. ABU SAYEM (Daffodil International University)*</i>; <i>Md. Siddiqur Rahman (Daffodil International University)</i>; <i>Innika Khatun (International University of Business Agriculture and Technology)</i></p>
16:30 - 16:45	<p>PID 368 An Autonomous Agricultural Robot for Plant Disease Detection <i>Shamim Forhad (American International University-Bangladesh (AIUB))*</i>; <i>Kazi Zakaria Tayef (American International University-Bangladesh (AIUB))</i>; <i>Mahamudul Hasan (BAUST)</i>; <i>A N M Shahebul Hasan (American International University-Bangladesh)</i>; <i>MD Zahurul Islam (American International University Bangladesh)</i>; <i>Md. Riazat Kabir Shuvo (Md. Riazat Kabir Shuvo)</i></p>
16:45-17:00	<p>PID 372 Design and Development of a Low-Cost IoT based Water Quality Monitoring System <i>Sultanus Salehin (Islamic University of Technology (IUT))*</i>; <i>tahseen asma meem (AIUB)</i>; <i>Akib Jayed Islam (American International University-Bangladesh (AIUB))</i>; <i>Nasim Al Islam (AIUB)</i></p>

Day 1: Friday – December 10, 2021
 15.45 to 17.00
D1TS10: Data Analysis and Cloud Computing - 2
 Zoom Meeting Link: <https://bdren.zoom.us/j/62944318902>
Session Chairs:
 Prof. Dr. Samsul Arefin, CUET
 Dr. Farhana Sarker, ULAB
Session Moderator: M. Ashikuzzaman Kowshik
Support Partner:

	
15:45 - 16:00	<p>PID 218 Obesity & Mental Health during the COVID-19 Pandemic: Prediction and an Exploration of their Relationship <i>Shahriar Rahman Khan (Military Institute of Science and Technology)*; Noor Nafiz Islam (Military Institute of Science and Technology); S M Tamzid Islam (Government); Syed Rohit Zaman (Military Institute of Science and Technology); Md. Rezwan -A- Rownok (Military Institute of Science and Technology); Muhammad Nazrul Islam (Military Institute of Science and Technology (MIST))</i></p>
16:00 - 16:15	<p>PID 247 Pandemic Effect on Education System among University Students <i>Farzana Yesmin (Daffodil International University); Md. Mosfikur Rahman (Daffodil International University)*; Mohd. Saifuzzaman (Bangladesh Japan Information Technology (BJIT) Limited, Bangladesh.); Ms. Nazmun Nessa Moon (Daffodil International University)</i></p>
16:15-16:30	<p>PID 256 Investigation of Electronic Structure and Optical Properties Hafnium (IV) oxide and its 12% Si, Ge and Sn with Material Data Analysis by computational methods <i>Unesco Chakma*; Tomal Hossain; Md. Sayed Hossain; Md. Monsur Alam; Nusrat Jahan Khandakar; Md. Shariful Islam; Rubel Shaikh; Md. Hazrat Ali European University of Bangladesh (EUB)</i></p>
16:30 - 16:45	<p>PID 261 Denial of Service (DoS) Threat Detection Using Supervised Machine Learning Algorithms on CICIDS2018 Dataset <i>Abu Jafar Mohammad Saleh (Bangladesh University of Professionals)*; Md Nasim Adnan (Jashore University of Science and Technology (JUST))</i></p>
16:45-17:00	<p>PID 263 Design a Virtual Machine Placement Algorithm to Enhance Energy Efficiency in a Cloud Environment <i>Dr Md Mostafijur Rahman (Green University of Bangladesh)*; Litan Islam (CSE, DUET); Dr. Md. Nasim Akhtar (Dhaka University of Engineering and Technology, Gazipur); Md Shakil Shakil (CSE, Dhaka University of Engineering and Technology, Gazipur); Rathindranath Baromon (Dhaka University of Engineering and Technology, Gazipur); Badlishah R Ahmad (Universiti Malaysia Perlis)</i></p>

<p>Day 1: Friday – December 10, 2021 15.45 to 17.00</p> <p>D1TS11: Natural Language Processing - 2 Zoom Meeting Link: https://bdren.zoom.us/j/65474744960 Session Chairs: Prof Dr Md Abu Yousuf, JU and AKM Fazlul Haque, DIU Session Moderator: Shatabdi Majumder Support Partner:</p>
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15:45 - 16:00	<p>PID 327 Approaches for Improving the Performance of Fake News Detection in Bangla: Imbalance Handling and Model Stacking <i>Md Muzakker Hossain*</i>; <i>Zahin Awosaf</i> American International University-Bangladesh</p>
16:00 - 16:15	<p>PID 466 Early Suicide Prevention: Depression Level Prediction Using Machine Learning and Deep Learning Techniques for Bangladeshi Facebook Users <i>Imran Hossen</i>; <i>Md. Tohidul Islam</i>; <i>Md. Golam Rashed</i>; <i>Dr. Dipankar Das</i> University of Rajshahi</p>
16:15-16:30	<p>PID 496 Explainable Sentiment Analysis for Textile Personalized Marketing <i>KASIMU MUKWAYA*</i>; <i>Ggaliwango Marvin</i>; <i>Nakayiza Hellen</i> Brac University</p>
16:30 - 16:45	<p>PID 499 Automatic Multi-Document Summarization for Bangla News Text Using a Novel Unsupervised Approach <i>Mohammad Hemayet Ullah*</i>; <i>Maimuna Rahman</i>); <i>Bonosree Roy</i>; <i>Md. Mohsin Uddin</i> East West University</p>
16:45-17:00	<p>PID 521 Towards Embedding Hyperparameters Optimization: Analyzing Their Impacts on Deep Learning-based Text Classification <i>Mohammed Moshiul Hoque*</i>; <i>Md Rajib Hossain</i> Chittagong University of Engineering & Technology</p>

Day 1: Friday – December 10, 2021
 15.45 to 17.00
D1TS12: Network Security-2
Zoom Meeting Link: <https://bdren.zoom.us/j/62712162472>
Session Chairs:
Prof Dr Nazrul Islam, MIST and
Dr. Hussain Nyeem, MIST
Session Moderator: Nayna Jahan Neha
Support Partner:

	
15:45 - 16:00	<p>PID 187 Crypto Holographic Reconfigurable Intelligent Surface-Assisted Backscatter Communication <i>Md. Saiam*</i>; <i>Mostafa Zaman Chowdhury</i>; <i>Syed Rakib Hasan</i> <i>Khulna University of Engineering & Technology (KUET), Bangladesh</i></p>
16:00 - 16:15	<p>PID 380 A Blockchain Based Secured Land Record System Using Hyperledger Fabric <i>Md. Anwar Hussen Wadud (Mawlana Bhashani Science and Technology University)</i>; <i>Md. Mahedi Hasan (Bangladesh University of Business and Technology (BUBT))*</i>; <i>Tahmid Ahmed (BUBT)</i>; <i>Alhaj Hossen (BUBT)</i>; <i>Md Hasibur Rahman (BUBT)</i>; <i>Aminul Islam (BUBT)</i></p>
16:15-16:30	<p>PID 423 HealthBlock: A Secured Healthcare System using Blockchain <i>Md. Mahfujur Rahman (Daffodil International University)*</i>; <i>Md Nur Amin Sifat (Daffodil International University)</i>; <i>Md: Mostafizur Rahman (Daffodil International University)</i>; <i>Mushfiqur Rahman (Daffodil International University)</i>; <i>Shamim Al Mamun (JU)</i>; <i>M Shamim Kaiser (JU)</i></p>
16:30 - 16:45	<p>PID 446 K-Nearest Neighbour Learning for Secure Intelligent Reflecting Surface Design <i>Yumou Chen (Heriot-Watt University)</i>; <i>Dr Muhammad Ruhul Amin Khandaker (Heriot-Watt University)*</i>; <i>Faisal Tariq (University of Glasgow)</i>; <i>Risala Tahsin Khan (Jahangirnagar University)</i></p>
16:45-17:00	<p>PID 288 Activity Classification from First Person Office Videos with Visual Privacy Protection <i>Partho Ghosh</i>; <i>Md. Abrar Istiak</i>; <i>Nayeed Rashid</i> ; <i>Ahsan Habib Akash</i>; <i>Ridwan Abrar</i>; <i>Asif S Sushmit</i>; <i>Ankan Dastider</i>; <i>Taufiq Hasan*</i> <i>Bangladesh University of Engineering and Technology</i></p>

Day 1: Friday – December 10, 2021
 17.00 to 18.30
D1TS13: AI for Image Analysis
Zoom Meeting Link: <https://bdren.zoom.us/j/61201456608>
Session Chairs:
Prof Dr Fazlul Hasan Siddiqui, DUET and
Prof Dr Md. Abdul Alim, RU
Session Moderator: Akib Chowdhury
Support Partner:

	
17:00 - 17:15	<p>PID 99 Deep learning based rice disease prediction <i>Mahbuba Yesmin Turaba*</i>; <i>Md. Nazrul Islam Khan</i>; <i>Fariha Majib Jeba</i>; <i>Nabeel Mohammed</i> North South University</p>
17:15 - 17:30	<p>PID 185 Design of Novel Feature Union for Prediction of Liver Disease Patients: A Machine Learning Approach <i>Rubia Yasmin*</i>; <i>Md Shamim Reza</i>; <i>Ruhul Amin</i> Pabna University of Science and Technology</p>
17:30-17:45	<p>PID 251 Deep Learning-based Skin Disease Detection Using Convolutional Neural Networks (CNN) <i>Sazzadul Islam Prottasha (Bangladesh University of Professionals)*</i>; <i>Sanjan Mahjabin Farin (Bangladesh University of Professionals)</i>; <i>Md. Bulbul Ahmed (Bangladesh Army University of Engineering and Technology)</i>; <i>Md. Zihadur Rahman (Bangladesh Army University of Engineering and Technology)</i>; <i>A.B.M. Kabir Hossain (Bangladesh Army University of Engineering and Technology)</i>; <i>Mohammed Shamim Kaiser (Jahangirnagar University)</i></p>
17:45 - 18:00	<p>PID 291 Automated Detection of Diabetic Foot Ulcer using Convolutional Neural Network <i>Pranta Protik (Khulna University)*</i>; <i>G M Atiqur Rahaman (Khulna University)</i>; <i>Sajib Saha (Commonwealth Scientific and Industrial Research Organization)</i></p>
18:00-18:15	<p>PID 488 Classifying Humerus fracture using X-ray images <i>Tahmina Akter Sumi (University of Chittagong)</i>; <i>Nanziba Basnin (International Islamic University Chittagong)</i>; <i>Mohammad Shahadat Hossain (University of Chittagong)*</i>; <i>Karl Andersson (Luleå University of Technology)</i>; <i>Sazzad Hossain (Department of Computer Science and Engineering, University of Liberal Arts Bangladesh)</i></p>
18:15 - 18:25	<p><i>Certificate Hand over and closing of the session</i></p>

Day 1: Friday – December 10, 2021
 17.00 to 18.30
D1TS14: AI for Smart Applications - 1
Zoom Meeting Link: <https://bdren.zoom.us/j/67650363976>
Session Chairs:
Prof Dr Mohammad Nurul Huda, UIU
Muhammad Aminur Rahaman, GUB
Session Moderator: Kaniz Fatema Antora
Support Partner:

	
17:00 - 17:15	<p>PID 286 User Similarity Computation Strategy for Collaborative Filtering Using Word Sense Disambiguation Technique <i>Md Samsuddoha*</i>; <i>Dipto Biswas</i>; <i>Md Erfan</i> <i>University of Barishal</i></p>
17:15 - 17:30	<p>PID 495 Wearable Healthcare Using Federated Learning Alma Tanjin (University of Asia Pacific); Nazia Tabassum (University of Asia Pacific); Nahar Afroz (University of Asia Pacific); Nasima Begum (University of Asia Pacific)*</p>
17:30-17:45	<p>PID 342 Fast Predictive Artificial Neural Network Model Based on Multi-fidelity Sampling of Computational Fluid Dynamics Simulation <i>Monoranjana Debnath Rony</i>; <i>Mahmudul Islam</i>; <i>Md.Aminul Islam</i>; <i>Mohammad Nasim Hasan</i> <i>Bangladesh University of Engineering and technology</i></p>
17:45 - 18:00	<p>PID 358 Bangla Image Caption Generation through CNN-Transformer based Encoder-Decoder Network <i>Md Aminul Haque Palash (Chittagong University of Engineering & Technology)</i>; <i>MD Abdullah Al Nasim (Pioneer Alpha)*</i>; <i>Sourav Saha (Pioneer Alpha)</i>; <i>Faria Afrin (Daffodil International University)</i>; <i>Raisa Mallik (Pioneer Alpha)</i>; <i>Sathishkumar Samiappan (Geosystems Research Institute - Mississippi State University)</i></p>
18:00-18:15	<p>PID 462 A Decision Support System (DSS) for Interview based Personnel Selection using Fuzzy TOPSIS method <i>Md. Muzahidul Islam Rahi (BRAC University)*</i>; <i>Amanat Ullah Prottoy (University of British Columbia)</i>; <i>Dr. Golam Rabiul Alam (BRAC University)</i></p>
18:15 - 18:25	<p><i>Certificate Hand over and closing of the session</i></p>


Day 1: Friday – December 10, 2021
 17.00 to 18.30
D1TS15: IoT and Smart Agriculture - 3
 Zoom Meeting Link: <https://bdren.zoom.us/j/68645045252>
Session Chairs:
Prof Roshidul Hasan, BSMRAU
Sejuti Rahman, DU
Session Moderator: Shatabdi Majumder
Support Partner:

	
17:00 - 17:15	<p>PID 39 Design and Development of Road Surface Condition Monitoring System <i>MD. Imran Hossain*</i>; <i>Mohammad Shafat Al Saif</i>; <i>MD. Rezaul Islam Biswas</i>; <i>MD. Seyam Mia</i>; <i>Abir Ahmed</i>; <i>Md. Saniat Rahman Zishan</i> American International University-Bangladesh</p>
17:15 - 17:30	<p>PID 393 IoT-Based Smart Health Monitoring System: Design, Development and Implementation <i>Abdullah Al Mamun*</i>; <i>Md. Nahidul Alam</i> ; <i>Zahid Hasan</i>; <i>Aditya Narayan Das</i> Bangladesh Army International University of Science and Technology</p>
17:30-17:45	<p>PID 396 Smart Home Surveillance Based on IoT <i>Lutfun Nahar (International Islamic University Chittagong)</i>; <i>Mohammad Shahadat Hossain (University of Chittagong)</i>; <i>Nusrat Jahan (International Islamic University Chittagong)</i>; <i>Mayesha Tasnim (International Islamic University Chittagong)</i>; <i>Karl Andersson (Luleå University of Technology)*</i>; <i>Md Sazzad Hossain (University of Liberal Arts Bangladesh)</i></p>
17:45 - 18:00	<p>PID 431 Opportunity Assessment and Feasibility Study of IoT based Smart Farming in Bangladesh for Meeting Sustainable Development Goals <i>Nowshin Alam (American International University-Bangladesh)*</i></p>
18:00-18:15	<p>PID 487 IoT-based Smart Energy Metering System (SEMS) Considering Energy Consumption Monitoring, Load Profiling and Controlling in the Perspective of Bangladesh. <i>Mehedi Hasan Jewel (United International University)</i>; <i>Parag Kumar Paul (United International University)</i>; <i>Abdullah Al Mamun (Bangladesh Army International University of Science and Technology)*</i>; <i>Shahriar Ahmed Chowdhury (United International University)</i></p>
18:15 - 18:25	<p><i>Certificate Hand over and closing of the session</i></p>

Day 1: Friday – December 10, 2021
 17.00 to 18.30
D1TS16: Data Analysis and Cloud Computing - 3
 Zoom Meeting Link: <https://bdren.zoom.us/j/62944318902>
 Session Chairs: Prof Dr Mohammed Eunos Ali, BUET
 Md Kafiul Islam, IUB
 Session Moderator: Ratul Saha
 Support Partner:

	
17:00 - 17:15	<p>PID 270 Implementation of a Digital Healthcare Service Model for Ensuring Preventive and Primary Healthcare in Rural Bangladesh <i>Khondaker Abdullah-Al-Mamun (United International University)*; Moinul Chowdhury (CMED Health Limited); Rubaiyat Alim Hridhee (CMED Health Limited); Tanvir Islam (CMED Health Ltd); Mazharul Islam Leon (CMED Health Limited); Mithila Faruque (Bangladesh University of Health Sciences, Dhaka , Bangladesh); Mohammad Badruddozza Mia (United International University); Farhana Sarker (University of Liberal Arts, Bangladesh)</i></p>
17:15 - 17:30	<p>PID 296 A Comparative Analysis of AWS Cloud Native Application Deployment Model <i>Razoan Ahmed (Therap (BD) Ltd.); Md. Motaharul Islam (United International University)*</i></p>
17:30-17:45	<p>PID 314 Public Sentiment Analysis on COVID-19 Vaccination from Social Media Comments in Bangladesh <i>Ashfaqer Rahat Siddique (United International University)*</i></p>
17:45 - 18:00	<p>PID 346 Identification of Molecular Signatures and Pathways of Nasopharyngeal Carcinoma (NPC) Using Network-based Approach <i>Alama Jannat Akhi (Mawlana Bhashani Science and Technology University); Kawsar Ahmed (Dept of ICT, MBSTU); Bikash Kumar Paul (Mawlana Bhashani Science and Technology University); Md. Ahsan Habib (ICT Department, Mawlana Bhashani Science and Technology University (MBSTU)); Mohammad Rubbyat Akram (Robi Axiata Ltd.); Sujay Saha (University of Dhaka)</i></p>
18:00-18:15	<p>PID 349 Global Undergraduate Research Landscape Analysis and Its effect on 4th Industrial Revolution <i>Shadman I Chowdhury*; Shamim Ashrafi; Kazi Sadman Ahmed; Imranul Islam InNeed Intelligent Cloud</i></p>
18:15 - 18:25	<p><i>Certificate Hand over and closing of the session</i></p>

Day 1: Friday – December 10, 2021
 17.00 to 18.30
D1TS17: Energy and Sustainability
 Zoom Meeting Link: <https://bdren.zoom.us/j/65474744960>
Session Chairs:
Prof Dr Subrata Kumar Aditya, Sheikh Hasina University Netrokona
Dr Saadia Alam, IUBAT
Session Moderator: Marilyn Dip Peris
Support Partner:

	
17:00 - 17:15	<p>PID 14 The Bangabandhu Tariff - Improving Access to Sustainable Electricity and Co-Benefits of Climate Change through Community Power Purchase Agreements <i>Sebastian Groh (Brac University)*; Raluca Dumitrescu (TU Berlin); Daniel Philipp (MicroEnergy International)</i></p>
17:15 - 17:30	<p>PID 334 Designing of a Charging Capacity Model (CCM) for Electric Vehicles and Easy-Bikes <i>Shafquat Yasar Aurko*; Riyad Salehdin; Faiaz Allahma Rafi; K. Habibul Kabir Islamic University of Technology (IUT)</i></p>
17:30-17:45	<p>PID 388 A Study on DC Characteristics of Si, Ge and SiC based MOSFET <i>Kazi Mahamud AL Masum*; Tanvir Yousof Shohag; Md. Shahid Ullah International Islamic University Chittagong</i></p>
17:45 - 18:00	<p>PID 419 Smart IoT-Biofloc water management system using Decision regression tree <i>Samsil Arefin Mozumder (East Delta University); A S M Sharifuzzaman Sagar (China University of Mining and Technology)*</i></p>
18:00-18:15	<p>PID 510 Use of Genetic Algorithm and Finite-Difference Time-Domain Calculations to Optimize “Plasmonic” Thin-film Solar Cell Performance <i>Abrar Jawad Haque*; Mustafa Mohammad Shaky; Sabrina Nurhan Hasan; Tawseef Ahmed Khan; Mohammed Shamim Kaiser (JU); Mustafa H Chowdhury, Independent University, Bangladesh</i></p>

Day 1: Friday – December 10, 2021
 17.00 to 18.30
D1TS18: Devices and Communications
Zoom Meeting Link: <https://bdren.zoom.us/j/62712162472>
Session Chairs:
Prof Dr Md. Obaidur Rahman, DUET
Prof Dr Risala Tasin Khan, JU
Session Moderator: Nafisa Tabassum Navia
Support Partner:

17:00 - 17:15	<p>PID 326 5G MIMO Antenna in Wireless Communication with Higher Efficiency & Return loss <i>Afrin Binte Anwar*</i>; <i>Rima Islam</i>; <i>Debalina Mollik</i>; <i>Prodip Kumar Saha Purnendu</i>; <i>Raja Rashidul Hasan</i>; <i>Md. Abdur Rahman</i>; <i>American International University-Bangladesh</i></p>
17:15 - 17:30	<p>PID 348 Designing of an Underwater-Internet of Things (U-IoT) for Marine Life Monitoring <i>Asif Sazzad (Islamic University of Technology (IUT))*</i>; <i>Nazifa Nawer (Islamic University of Technology)</i>; <i>Maisha Mahbub Rimi (Islamic University of Technology)</i>; <i>K. Habibul Kabir (Islamic University of Technology (IUT))</i>; <i>Khandaker Faysal Haque (Northeastern University)</i></p>
17:30-17:45	<p>PID 356 Beam-Splitter Based on Dual-Core Photonic Crystal Fiber for Polarized Light sing Gold Metal Nanowires <i>Md. Ruhul Amin (MBSTU)</i>; <i>S.M. Shahriar Nashir</i>; <i>Nazrul Islam</i>; <i>Md. Ahsan Habib*</i>; <i>Mohammad Rubbyat Akram (Robi Axiata Ltd.)</i>; <i>Sujay Saha (University of Dhaka)</i></p>
17:45 - 18:00	<p>PID 373 Investigating the Performance of Delay-Tolerant Routing Protocols Using Trace-Based Mobility Models <i>Khalid Mahbub Khan</i>; <i>Muhammad Sajjadur Rahim*</i>; <i>Dr. Abu Zafor Muhammad Touhidul Islam University of Rajshahi</i></p>
18:00-18:15	<p>PID 475 A Compact UWB Array Antenna for Microwave Imaging/WiMAX/WiFi/Sub-6 GHz Applications <i>Liton Chandra Paul (Pabna University of Science and Technology)*</i>; <i>Golam Arman Shaki (Pabna University of Science and Technology)</i>; <i>Tithi Rani (Rajshahi University of Engineering & Technology)</i>; <i>Wang-Sang Lee (Gyeongsang National University)</i></p>
18:15 - 18:25	<p><i>Certificate Hand over and closing of the session</i></p>

<p>Day 1: Friday – December 10, 2021 18.30 to 20.00 Keynote Session – 1 Zoom Link: https://bdren.zoom.us/j/62066569461 Meeting ID: 620 6656 9461 Session Chairs: Prof Dr Md. Abu Taher, UGC Prof Dr Muhammed Fayyaz Khan, Vice Chancellor, BUBT Session Moderator:</p>	
18:30 - 19:15	<p>Title: Want a smarter deep CNN? Train it using human salience. Kevin Bowyer, Schubmehl-Prein Family Professor, Computer Science and Engineering, University of Notre Dame</p>

19:15 - 20:00	Title: 4th Industrial Revolution as a Vehicle for Enhanced Industry-Academy Collaboration Saifur Rahman Professor, VTech, USA President-Elect, IEEE
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<p>Day 1: Friday – December 10, 2021 20.00 to 21.00 Plenary Session-2 Zoom Link: https://bdren.zoom.us/j/62066569461 Meeting ID: 620 6656 9461 Session Chair: Prof Vincent Chang, Vice Chancellor, BRAC University, Dhaka Session Moderator:</p>

<p><i>Title: Exit vs. Voice</i> Professor Oliver D. Hart, Nobel Laureate in Economics - Lewis P. and Linda L. Geysler University Professor Department of Economics, Harvard University, USA</p>
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End of Day – 1

<p>Day 2: Saturday – December 11, 2021 15.30 to 17.00 D2TS19: AI for Smart Applications-2 Zoom Meeting Link:https://bdren.zoom.us/j/61201456608 Session Chairs: Prof. Dr. M. M. A. Hashem, KUET Dr. Md. Abu Layek, JnU Session Moderator: Saif Ahmed Support Partner:</p>
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15:30 - 15:45	PID 200 Assessment of Water Quality in Smart City Environment Leveraging ML-IoT <i>Sabbir Ahmed (JU); Mayeesha Mahzabin (BUP); Shahrin Shahpar (BUP); Surraiya Islam Tonni (BUP); Md Sazzadur Rahman (JU)*</i>
15:45 - 16:00	PID 336 A Deep Learning Based Approach to Colorize the Historical Documentaries of Bangladesh <i>Hasan Murad (Buet)*; Alim Al Razi (University of Asia Pacific); Rashik Rahman (University of Asia Pacific)</i>
16:00-16:15	PID 371 A Methodology for Recommending In-Vehicle Coupons Incorporating Machine Learning Algorithms for Efficient Financial Schemes <i>Md. Abdul Hai; Rafsan Shartaj Uddin; Yeaminur Rahman*; Rezwana Mahfuza BRAC University</i>

16:15 - 16:30	PID 500 COVID-19 Chest X-Ray Classification with Augmented GAN <i>Md. Appel Mahmud Pranto (Bangladesh University of Professionals (BUP))*; Nafiz Al Asad (Bangladesh University of Professionals (BUP)); Md Istakiak Adnan Palash (Bangladesh university of Professionals); A. K. M. Mohaiminul Islam (Bangladesh University of Professionals (BUP)); Mohammed Shamim Kaiser (Jahangirnagar University)</i>
16:30-16:45	PID 515 An Ensemble Machine Learning Approach for Detecting Fraudulent Banking Transactions <i>Sifat Bin Zaman (MIST); Noshin Tasnim (MIST)*; Nusrat Jahan (MIST); Md. Mahburur Rahman (MIST); Samrat Kumar Dey (Bangladesh Open University)</i>
16:45 - 16:55	Certificate hand over and closing of the session

Day 2: Saturday – December 11, 2021 15.30 to 17.00 D2TS20: AI for Detection and Prediction - 2 Zoom Meeting Link: https://bdren.zoom.us/j/67650363976 Session Chairs: Prof. Dr. Rameswar Debnath, KU Nazmul Siddique, Ulster University, Ireland Session Moderator: Mahmudul Haque Support Partner: 	
15:30 - 15:45	PID 376 A Belief Rule Based Decision Support System to Assess Multiple Disease Suspicion from Signs and Symptoms under Uncertainty <i>Razuan Karim (USTC); Mohammad Shahadat Hossain (CU)*; Sohrab Hossain (East Delta University); Karl Andersson (Luleå University of Technology); Md Sazzad Hossain (University of Liberal Arts); M Zobaie (USTC); Minhaz Ahmed (USTC)</i>
15:45 - 16:00	PID 407 Brain Tumor Classification using Transfer Learning from MRI Images <i>Nasrin Akter (BGC Trust University Bangladesh); Jubair Ahmed Junjun (BGC Trust University Bangladesh); Nazmun Nahar (BGC Trust University Bangladesh); Mohammad Shahadat Hossain (University of Chittagong); Karl Andersson (Luleå University of Technology)*; Md Sazzad Hossain (University of Liberal Arts)</i>
16:00-16:15	PID 452 A Deep Convolutional Neural Network-Based Approach to Classify and Detect Crack in Concrete Surface Using Xception <i>Nazia Alfaz; Abul Hasnat*; Alvi Md. Ragib Nihal Khan; Nazmus Shakib Sayom American International University-Bangladesh</i>
16:15 - 16:30	PID 501 Detection of Parkinson's Disease using Multimodal dataset <i>Md. Rawnak Saif Adib (BUP)*; M Shamim Kaiser (JU)</i>

<p>16:30-16:45</p>	<p>PID 502 <i>Incongruity Detection between Bangla News Headline and Body Content through Graph Neural Network</i> <i>Md Aminul Haque Palash (CUET)*; Mohammad Akib Khan(BRAC UNIVERSITY); Md Kawsarul Islam (Chittagong University of Engineering & Technology)</i></p>
<p>16:45 - 16:55</p>	<p><i>Certificate hand over and closing of the session</i></p>

Day 2: Saturday – December 11, 2021
 15.30 to 17.00
D2TS21: Emerging Applications
Zoom Meeting Link: <https://bdren.zoom.us/j/68645045252>
Session Chairs:
 Prof Dr Zahidul Islam, IU
 Dr Mufti Mahmud, NTU, UK
Session Moderator: Md. Akiful Hoque
Support Partner:



<p>15:30 - 15:45</p>	<p>PID 52 <i>Exploring the Capabilities towards Embracing 4IR for Sustainable Business in Bangladesh</i> <i>Mafi Rahman (BUP)*; Md. Abu Taher (University Grants Commission of Bangladesh (UGC))</i></p>
<p>15:45 - 16:00</p>	<p>PID 229 <i>Fourth Industrial Revolution: Shaping the New Bangladesh</i> <i>Dave D Dowland (Brac University)*</i></p>
<p>16:00-16:15</p>	<p>PID 272 <i>Development of an IoT-Enabled Digital Noticeboard</i> <i>Sihabul Islam*; Md. Liakot Ali; Muhammad Sheikh Sadi</i> <i>Bangladesh University of Engineering and Technology</i></p>
<p>16:15 - 16:30</p>	<p>PID 385 <i>Augmented Reality Based Lifelogging System For Reminiscence</i> <i>Mehrab Mustafy Rahman*; Md. Nazmus Sakib; Hasan Mahmud; Dr. Kamrul Hasan</i> <i>Islamic University of Technology</i></p>
<p>16:30-16:45</p>	<p>PID 517 <i>An Integrated Framework for Bus-Driver Allocation in Bangladesh</i> <i>Mondira Chakraborty (Jagannath University); Sajeeb Saha (Jagannath University)*</i></p>
<p>16:45 - 16:55</p>	<p><i>Certificate hand over and closing of the session</i></p>

<p>Day 2: Saturday – December 11, 2021 8.30 to 9.30</p> <p>Keynote Session-2</p> <p>Zoom Link: https://bdren.zoom.us/j/62066569461 Meeting ID: 620 6656 9461 Venue: Hybrid - Hall of Fame</p> <p>Session Chairs: Anirban Bandyopadhyay, NIMS, Japan Md Atiqur Rahman Ahad, DU</p> <p>Session Moderator: Support Partner:</p>	
8:30 - 9:30	<p>Title: Beyond Bias and Fairness in Face Recognition Professor Mathew Turk President of the Toyota Technological Institute at Chicago</p>

<p>Day 2: Saturday – December 11, 2021 10.00 to 12.00</p> <p>Keynote Session-3</p> <p>Zoom Link: https://bdren.zoom.us/j/62066569461 Meeting ID: 620 6656 9461 Venue: Hybrid - Hall of Fame</p> <p>Session Chair: Prof. Dr Hafiz Abdur Rahman, NSU Engg. Abubokor Hanip, Innovative Global University, USA</p> <p>Session Moderator: Support Partner:</p>	
10:00 - 11:00	<p>Title: Provably Beneficial Artificial Intelligence Stuart Russell Professor of Computer Science, UC Berkeley</p>
11:00-12:00	<p>Title: AI Robots and Moon Shot Program Toshio Fukuda Meijo University, Japan</p>

<p>Day 2: Saturday – December 11, 2021 13.00 to 14.00</p> <p>Plenary Session-3</p> <p>Zoom Link: https://bdren.zoom.us/j/62066569461 Meeting ID: 620 6656 9461 Venue: Hybrid - Hall of Fame</p> <p>Session Chairs: Prof Dr Md Sazzad Hossain, UGC of Bangladesh</p> <p>Session Moderator: Support Partner:</p>	
<p>Title: Neutrinos and gravitational waves Professor Takaaki Kajita, Nobel Laureate in Physics - 2015</p>	

Day 2: Saturday – December 11, 2021
14.00 to 15.30
Interactive Session-- ABC for Industry 4.0
Chairs: Prof Alamgir Hossain, Professor and Research Lead, Centre for Digital Innovation, Teesside University, UK
Session Moderator:
Support Partner:

Day 2: Saturday – December 11, 2021
17.00 to 18.00
Keynote Session-4
Zoom Link: <https://bdren.zoom.us/j/62066569461>
Meeting ID: 620 6656 9461
Venue: Hybrid - Hall of Fame
Session Chair:
Prof Karl Andersson, Lulea University of Technology, Sweden
Prof Dr Halida Homyora, RU
Session Moderator:

Title: A Future of Biometrics
Professor Mark Nixon
FIET FIAPR BMVA Distinguished Fellow 2015
[School of Electronics and Computer Science; University of Southampton, SO17 1BJ, UK](#)

End of Day – 2

End of IC4IR 2021