

 **Mawlana Bhashani Science and Technology University**
 Tangail, Bangladesh
 **18-19 December 2022**
 <https://tcce.mbstu.ac.bd>

Program Schedule

Day 1: 18 December 2022 (Sunday)

Venue: MBSTU Academic Building - 3 (Level 3)

All Time is Mentioned in Bangladesh Standard Time (GMT +6)

| Time | Event |
|---------------|---|
| 09:00 - 09:30 | Registration |
| 10:00 - 11:00 | <p>Inaugural Ceremony of the TCCE-2022 Conference</p> <p>Chief Guest : Professor Dr. Md. Sazzad Hossain, Member, UGC, Bangladesh</p> <p>Special Guest : Professor Dr. Md. Nasim Akhtar, Vice-Chancellor, CSTU</p> <p style="padding-left: 40px;">Professor Dr. A.R.M Solaiman, Pro Vice-Chancellor, MBSTU</p> <p style="padding-left: 40px;">Professor Dr. Md. Sirajul Islam, Treasurer, MBSTU</p> <p style="padding-left: 40px;">Professor Dr. Kanad Ray, Amity University Rajsthan, India</p> <p style="padding-left: 40px;">Professor Dr. Anirban Bandyopadhyay, NIMS, Japan</p> <p>Presided By : Professor Dr. Md. Forhad Hossain, Vice-Chancellor, MBSTU</p> <p>Welcome Speech : Professor Dr. Sajjad Waheed, Organizing Chair, TCCE 2022</p> <p>Room No. # 339</p> <p>Zoom Link: https://bdren.zoom.us/j/66912089771</p> <p>Zoom ID: 66912089771</p> |
| 11:00 - 11:30 | Coffee Break and Networking Session |
| 11:30 - 12:15 | <p>Keynote Talk 1 : Machine Learning in Cyber-security Applications</p> <p>Keynote Speaker: Professor Dr. Joarder Kamruzzaman, Information Technology, Federation University Australia</p> <p>Session Chair:</p> <ul style="list-style-type: none"> Dr. Mufti Mahmud, Dept of CS, NTU, UK Dr. M Mostafizur Rahman, AIUB, BD Professor Dr. Muhammad Shahin Uddin, ICT Department, MBSTU <p>Room No. # 339</p> <p>Zoom Link: https://bdren.zoom.us/j/67055166899</p> <p>Zoom ID: 67055166899</p> |

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| | |
|---------------|---|
| 12:15 - 13:00 | <p>Keynote 2 : Brain Informatics: A Gateway to Cutting-Edge Brain Research Keynote Speaker: Prof. Dr. Mufti Mahmud, Nottingham Trent University, UK</p> <p>Session Chair:</p> <ul style="list-style-type: none"> • Dr. Mohammad Motiur Rahman, Professor, CSE Department, MBSTU • Dr. Shamim A. Mamun, Professor, IIT, JU • Dr. Mehedi Hasan Takulder, CSE Department, MBSTU <p>Room No. # 339 Zoom Link: https://bdren.zoom.us/j/67055166899 Zoom ID: 67055166899</p> |
| 13:00 - 14:00 | Lunch Break |
| 14:00 - 16:00 | <p>Technical Session - D1S1</p> <p>Paper IDs: 300, 374, 383, 399, 416, 424, 500.</p> <p>Session Chair:</p> <ul style="list-style-type: none"> • Dr. Mostofa Kamal Nasir, Professor, CSE Department, MBSTU • Dr. Risala Tasin Khan, Professor, IIT, JU • Professor Dr. Md. Abdullah Al Mamun, MBSTU <p>Room # 338 Zoom Link: https://bdren.zoom.us/j/63180461228 Zoom ID: 63180461228</p> <hr/> <p>Technical Session - D1S2</p> <p>Paper ID: 303, 304, 305, 309, 376, 413, 414.</p> <p>Session Chair:</p> <ul style="list-style-type: none"> • Dr. Muhammad Raisuddin Ahmed, University of Portsmouth, United Kingdom • Professor Dr. Monir Morshed, Professor, ICT Department, MBSTU • Professor Dr. Md. Iqbal Mahmud, ME Department, MBSTU • Dr. Sajeeb Saha, CSE Department, Jagannath University <p>Room # 340 Zoom Link: https://bdren.zoom.us/j/65611887243 Zoom ID: 65611887243</p> |
| 16:00 - 16:20 | Coffee Break and Networking Session |

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| 16:20 - 18:20 | <p>Technical Session - D1S3 Paper ID: 390, 396, 406, 409, 410, 502.</p> <p>Session Chair:</p> <ul style="list-style-type: none"> • Dr. Momotaz Begum, Professor, CSE Department, DUET • Dr. Mst. Nargis Akter, Professor, ICT Department, MBSTU • Professor Dr. Joykrisna Saha, MBSTU <p>Room # 338 Zoom Link: https://bdren.zoom.us/j/67102822814 Zoom ID: 67102822814</p> |
| | <p>Technical Session - D1S4 Paper ID: 312, 315, 332, 334, 381, 384</p> <p>Session Chair:</p> <ul style="list-style-type: none"> • Dr. Md Atiqur Rahman Ahad, University of East London, UK • Dr. Md. Sazzad Hossain, Professor, CSE Department, MBSTU • Dr. Md. Abdullah Al Mamun, Professor, CSE Department, RUET <p>Room # 340 Zoom Link: https://bdren.zoom.us/j/67540246301 Zoom ID: 67540246301</p> |
| 18.30 - 20.00 | Conference Dinner and Networking |

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Day 2: 19 December 2022 (Monday)

Venue: Virtual Classroom, Room No. # 207, MBSTU Academic Building - 1 (Level 1)

All Time is Mentioned in Bangladesh Standard Time (GMT +6)

| Time | Event (Virtual Only) |
|---------------|---|
| 09:00 - 11:00 | <p>Technical Session - D2S5 Paper ID: 301, 302, 398, 418, 421, 422, 503, 508. Session Chair:</p> <ul style="list-style-type: none"> Dr. Md Samsul Arefin, Professor, CSE Department, CUET Dr. Momotaz Begum, Professor, CSE Department, DUET Dr. Md. Abir Hossain, ICT Department, MBSTU <p>Zoom Link: https://bdren.zoom.us/j/66551405264 Zoom ID: 66551405264</p> |
| | <p>Technical Session - D2S6 Paper ID: 328, 371, 386, 387, 501, 504, 505, 506, 510. Session Chair:</p> <ul style="list-style-type: none"> Professor Dr. Muhammad Shahin Uddin, ICT Department, MBSTU Dr. Md. Obaidur Rahman, Professor, CSE Department, DUET Dr. Muhammad Nazrul Islam, CSE Department, MIST <p>Zoom Link: https://bdren.zoom.us/j/68841390837 Zoom ID: 68841390837</p> |
| 11:00 - 11:20 | Coffee Break |
| 11.30 – 12.15 | <p>Keynote 3: Prof. Dr. Karl Andersson, Dean, Luleå University of Technology, Sweden Session Chair:</p> <ul style="list-style-type: none"> Professor Dr. Mohammed Abu Yousuf, IIT, JU Professor Dr. Md. Ahsan Habib, ICT Department, MBSTU <p>Zoom Link: https://bdren.zoom.us/j/68851567532 Zoom ID: 68851567532</p> |
| 12.15 – 13:00 | <p>Keynote 4: Nilanjan Dey, Techno International, India Keynote Title : Learning with Small Data Session Chair:</p> <ul style="list-style-type: none"> Dr. Md. Mahabub Hossain, Professor, ECE Department, HSTU Dr. Mustafa Habib Chowdhury, Professor, EEE Department, IUB <p>Zoom Link: https://bdren.zoom.us/j/68851567532 Zoom ID: 68851567532</p> |
| 13:30 - 15:00 | Lunch Break |

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| Time | Event (Virtual Only) |
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| 15:00 - 16:00 | <p>Special Session on Preparedness of Bangladeshi Software Industries for 4IR Keynote Speaker: Md. Mushfiqur Rahman, Director, BASIS (2022-2023) Panelist: Dr. Faizul Bari, CTO, Spectrum Software & Consulting (Pvt.) Limited</p> <p>Session Moderator:</p> <ul style="list-style-type: none"> Dr. Sajjad Waheed, Professor, ICT Department, MBSTU <p>Zoom Link: https://bdren.zoom.us/j/69862236017 Zoom ID: 69862236017</p> <p>Special Session/Workshop: Recent Developments and Contributions of the DiversAsia Project Towards Inclusive Higher Education</p> <p>Panelist</p> <ul style="list-style-type: none"> Prof. David Brown, Nottingham Trent University, UK Prof. Linda Daniela, University of Latvia, Latvia Ms. Petya Grudeva, National Association of Professionals Working with People with Disabilities, Bulgaria Dr. Fakhru Islam, University Grants Commission of Bangladesh, Bangladesh Prof. Md. Saiful Islam, Bangladesh University of Engineering and Technology, Bangladesh Dr. Rajesh Kaluri, Vellore Institute of Technology, India Prof. Dora Levterova, Plovdiv University, Bulgaria Dr. Sabarimali Manikandan, Indian Institute of Technology, India Mr. Karel Van Isacker, PhoenixKM BV BA, Belgium <p>Session Moderator:</p> <ul style="list-style-type: none"> Mufti Mahmud, CS, NTU, UK M Shamim Kaiser, IIT, JU, BD <p>Zoom Link: https://us02web.zoom.us/j/87989123438 Zoom ID: 87989123438</p> |

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| 16:00 - 17:00 | <p>Award and Closing Ceremony</p> <p>Chief Guest : Professor Dr. Md. Forhad Hossain, Vice-Chancellor, MBSTU</p> <p>Special Guest : Professor Dr. A. R.M Solaiman, Pro Vice-Chancellor, MBSTU</p> <p>Professor Dr. Md. Sirajul Islam, Treasurer, MBSTU</p> <p>Professor Dr. Kanad Ray, Amity University Rajsthan, India</p> <p>Professor Dr. Anirban Bandyopadhyay, NIMS, Japan</p> <p>Presided By : Professor Dr. Sajjad Waheed, Organizing Chair, TCCE 2022</p> <p>Vote of Thanks: Professor Dr. Md. Ahsan Habib, Organizing Secretary, TCCE 2022</p> <p>Zoom Link: https://bdren.zoom.us/j/64007817126</p> <p>Zoom ID: 64007817126</p> |

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Detailed Technical Program

Day 1: 18 December 2022 (Sunday)

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|--|--|-----|-------|---------|--|---------|--|---------|--|---------|--|---------|--|---------|---|---------|---|---------|--|
| 9:00 - 11:00 (Parallel Session) | <p>Technical Session - D2S5</p> <p>Paper ID: 301, 302, 398, 418, 421, 422, 503, 508.</p> <p>Session Chair:</p> <ul style="list-style-type: none"> Dr. Md Samsul Arefin, Professor, CSE Department, CUET Dr. Momotaz Begum, Professor, CSE Department, DUET Dr. Md. Abir Hossain, ICT Department, MBSTU <p>Zoom Link: https://bdren.zoom.us/j/66551405264 Zoom ID: 66551405264</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 15%;">PID</th> <th>Title</th> </tr> </thead> <tbody> <tr> <td>PID 301</td> <td>Material Named Entity Recognition (MNER) for Knowledge-driven Materials Using Deep Learning Approach</td> </tr> <tr> <td>PID 302</td> <td>A Novel Hybrid Barnacle Mating Optimizer based Least Square Support Vector Machines for Weekly Trend Analysis of Cumulative Confirmed Cases of Covid-19 along with the Vaccination Frequency in Malaysia</td> </tr> <tr> <td>PID 398</td> <td>Ensemble Machine Learning Technique for Identifying COVID-19 from CT Scan Images</td> </tr> <tr> <td>PID 418</td> <td>Sentiment Analysis of Restaurants Reviews Using Machine Learning</td> </tr> <tr> <td>PID 421</td> <td>Transliteration from Banglish to Bengali language using Neural Machine Translation</td> </tr> <tr> <td>PID 422</td> <td>Car detection from Unmanned Aerial Vehicles based on Deep Learning: A Comparative Study</td> </tr> <tr> <td>PID 503</td> <td>Metamaterials Based Photonic Crystal Fiber (PCF) design for Wireless Charging</td> </tr> <tr> <td>PID 508</td> <td>Light Convolutional Neural Network to Detect Eye Diseases from Retinal Images: Diabetic Retinopathy and Glaucoma</td> </tr> </tbody> </table> | PID | Title | PID 301 | Material Named Entity Recognition (MNER) for Knowledge-driven Materials Using Deep Learning Approach | PID 302 | A Novel Hybrid Barnacle Mating Optimizer based Least Square Support Vector Machines for Weekly Trend Analysis of Cumulative Confirmed Cases of Covid-19 along with the Vaccination Frequency in Malaysia | PID 398 | Ensemble Machine Learning Technique for Identifying COVID-19 from CT Scan Images | PID 418 | Sentiment Analysis of Restaurants Reviews Using Machine Learning | PID 421 | Transliteration from Banglish to Bengali language using Neural Machine Translation | PID 422 | Car detection from Unmanned Aerial Vehicles based on Deep Learning: A Comparative Study | PID 503 | Metamaterials Based Photonic Crystal Fiber (PCF) design for Wireless Charging | PID 508 | Light Convolutional Neural Network to Detect Eye Diseases from Retinal Images: Diabetic Retinopathy and Glaucoma |
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| Time | Event | | | | | | | | | | | | | | | | |
|------------------------------------|--|---------|---|---------|--|---------|--|---------|---|---------|--|---------|---|---------|---|---------|--|
| 9:00 - 11:00 (Parallel Session) | <p>Technical Session - D2S6</p> <p>Paper ID: 328, 371, 386, 387, 501, 504, 505, 506, 510.</p> <p>Session Chair:</p> <ul style="list-style-type: none"> Professor Dr. Muhammad Shahin Uddin, ICT Department, MBSTU Dr. Md. Obaidur Rahman, Professor, CSE Department, DUET Dr. Muhammad Nazrul Islam, CSE Department, MIST <p>Zoom Link: https://bdren.zoom.us/j/68841390837 Zoom ID: 68841390837</p> <table border="1"> <tr> <td>PID 328</td> <td>Solving The Royalty Payment Problem Through Shooting Method</td> </tr> <tr> <td>PID 371</td> <td>Optimal Control Problem with Non-Standard Conditions: Direct and Indirect Approaches</td> </tr> <tr> <td>PID 386</td> <td>Descriptive Analysis For Electric Bus During Non-Operational Stage</td> </tr> <tr> <td>PID 387</td> <td>The Effectiveness Level On The Electric Buses Operation: Case Study For Affordability and Accessibility</td> </tr> <tr> <td>PID 501</td> <td>1D to 20D tensors like dodecanions and icosanions to model human cognition as morphogenesis in the density of Primes</td> </tr> <tr> <td>PID 504</td> <td>A Novel Ensemble Methodology to Validate Fuzzy Clusters of Big Data</td> </tr> <tr> <td>PID 505</td> <td>Review of Quantum Inspired Neural Network on Handwriting datasets</td> </tr> <tr> <td>PID 506</td> <td>A Ranking Model of Paddy Farmers for Their Welfare</td> </tr> </table> | PID 328 | Solving The Royalty Payment Problem Through Shooting Method | PID 371 | Optimal Control Problem with Non-Standard Conditions: Direct and Indirect Approaches | PID 386 | Descriptive Analysis For Electric Bus During Non-Operational Stage | PID 387 | The Effectiveness Level On The Electric Buses Operation: Case Study For Affordability and Accessibility | PID 501 | 1D to 20D tensors like dodecanions and icosanions to model human cognition as morphogenesis in the density of Primes | PID 504 | A Novel Ensemble Methodology to Validate Fuzzy Clusters of Big Data | PID 505 | Review of Quantum Inspired Neural Network on Handwriting datasets | PID 506 | A Ranking Model of Paddy Farmers for Their Welfare |
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| PID 506 | A Ranking Model of Paddy Farmers for Their Welfare | | | | | | | | | | | | | | | | |
| 11:00 – 11:20 | Coffee Break | | | | | | | | | | | | | | | | |
| 11.30 – 12.15 | <p>Keynote 3: Prof. Dr. Karl Andersson, Dean, Luleå University of Technology, Sweden</p> <p>Session Chair:</p> <ul style="list-style-type: none"> Professor Dr. Mohammed Abu Yousuf, IIT, JU Professor Dr. Md. Ahsan Habib, ICT Department, MBSTU <p>Zoom Link: https://bdren.zoom.us/j/68851567532 Zoom ID: 68851567532</p> | | | | | | | | | | | | | | | | |

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|---------------|---|
| 12.15 – 13:00 | <p>Keynote 4: Nilanjan Day, Techno International, India Keynote Title : Learning with Small Data</p> <p>Session Chair:</p> <ul style="list-style-type: none"> • Dr. Md. Mahabub Hossain, Professor, ECE Department, HSTU • Dr. Mustafa Habib Chowdhury, Professor, EEE Department, IUB <p>Zoom Link: https://bdren.zoom.us/j/68851567532 Zoom ID: 68851567532</p> |
| 13:30 - 15:00 | Lunch Break |
| 15:00 - 16.00 | <p>Special Session on Preparedness of Bangladeshi Software Industries for 4IR Keynote Speaker: Md. Mushfiqur Rahman, Director, BASIS (2022-2023) Panelist: Dr. Faizul Bari, CTO, Spectrum Software & Consulting (Pvt.) Limited</p> <p>Session Moderator:</p> <ul style="list-style-type: none"> • Dr. Sajjad Waheed, Professor, ICT Department, MBSTU <p>Zoom Link: https://bdren.zoom.us/j/69862236017 Zoom ID: 69862236017</p> <p>Special Session/Workshop: Recent Developments and Contributions of the DiversAsia Project Towards Inclusive Higher Education</p> <p>Panelist</p> <ul style="list-style-type: none"> • Prof. David Brown, Nottingham Trent University, UK • Prof. Linda Daniela, University of Latvia, Latvia • Ms. Petya Grudeva, National Association of Professionals Working with People with Disabilities, Bulgaria • Dr. Fakhru Islam, University Grants Commission of Bangladesh, Bangladesh • Prof. Md. Saiful Islam, Bangladesh University of Engineering and Technology, Bangladesh • Dr. Rajesh Kaluri, Vellore Institute of Technology, India • Prof. Dora Levterova, Plovdiv University, Bulgaria • Dr. Sabarimali Manikandan, Indian Institute of Technology, India • Mr. Karel Van Isacker, PhoenixKM BV BA, Belgium <p>Session Moderator:</p> <ul style="list-style-type: none"> • Mufti Mahmud, CS, NTU, UK • M Shamim Kaiser, IIT, JU, BD <p>Zoom Link: https://us02web.zoom.us/j/87989123438 Zoom ID: 87989123438</p> |

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16:00 - 17:00

Award and Closing Ceremony

Chief Guest : Professor Dr. Md. Forhad Hossain, Vice-Chancellor, MBSTU

Special Guest : Professor Dr. A. R.M Solaiman, Pro Vice-Chancellor, MBSTU

Professor Dr. Md. Sirajul Islam, Treasurer, MBSTU

Professor Dr. Kanad Ray, Amity University Rajsthan, India

Professor Dr. Anirban Bandyopadhyay, NIMS, Japan

Presided By : Professor Dr. Sajjad Waheed, Organizing Chair, TCCE 2022

Vote of Thanks: Professor Dr. Md. Ahsan Habib, Organizing Secretary, TCCE 2022

Zoom Link: <https://bdren.zoom.us/j/64007817126>

Zoom ID: 64007817126

End of TCCE 2022

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