

Time Zone: Japan Standard Time (JST, +9hr UTC)

Final Program: 10th ICIEV & 5th IVPR (Virtual), 16-19 August 2021

Presentation + QA : Regular (10+5); WIP (5+5); Keynote (45) [in Min.]

(At least, 1 author **MUST** attend the session during QA, else the paper will not be sent to IEEE Xplore)

ZOOM link: <https://bdren.zoom.us/meeting/register/u5Arf-2vqzsoE9ciQsvvG9uk5BmdqcaOMaE9>

Time zone converter: <https://www.timeanddate.com/worldclock/converter.html>

| 16-Aug | Start | End | Session | Topic | ID | Title | Authors (with affiliations) |
|---|--|------|----------------------------|------------------------------|----|---|--|
| | 1200 | 1220 | Welcome Session | | | | <ul style="list-style-type: none"> Toshio Fukuda, Fellow, IEEE; IEEE President 2020; Meijo University, Japan; Beijing Institute of Technology, China; Nagoya University, Japan (Honorary General Chair, 10th ICIEV; General Chair, 5th IVPR) Matthew Turk, Fellow, IEEE; Fellow, IAPR; President, Toyota Technological Institute at Chicago, USA (General Chair, 10th ICIEV) Saifur Rahman, Life Fellow, IEEE; Candidate for IEEE-President-elect; Virginia Tech, USA Richard Hartley, Fellow, IEEE; Fellow, Australian Academy of Science; Fellow, Australian Mathematical Society; Australian National University, Australia (General Chair, 5th IVPR) Kenji Suzuki, Tokyo Institute of Technology, Japan (Program Chair, 5th IVPR) Md Atiqur Rahman Ahad, SMIEEE, SMOSA, University of Dhaka, Bangladesh; Osaka University, Japan (General Chair, 10th ICIEV & 5th IVPR) |
| | 1220 | 1305 | K1 | Keynote Speech | | | <p>Ljiljana Trajkovic, Fellow, IEEE; 2019-2020 IEEE Division X Delegate/Director; Past President, IEEE Systems, Man, and Cybernetics Society; Past President, IEEE Circuits and Systems Society; Simon Fraser University, Canada</p> <p>Title: Data Mining and Machine Learning for Analysis of Network Traffic</p> |
| <p><i>Session Chair:</i> Takeshi Yamakawa, Fellow, IEEE; Fuzzy Logic Systems Institute, Japan</p> | | | | | | | |
| | 1305 | 1310 | Session Break (stay tuned) | | | | |
| | 1310 | 1425 | D1S1 | Computational Intelligence-1 | 5 | A Comparison of Feature Vectors in a Graph Cut-Based Liver Segmentation Algorithm | Laramie Paxton (Marian University)*; Yufeng Cao (Keck School of Medicine); Kevin Vixie (Washington State University); Yuan Wang (Washington State University); Chuan Ng (M.D. Anderson Cancer Center); Brian Hobbs (Cleveland Clinic) |
| | <p><i>Session Chair:</i> Sozo Inoue, Kyushu Institute of Technology, Japan</p> | | | | 31 | Deep Learning-based Framework for Shipping Container Security Seal Detection | Zhila Bahrami (University of British Columbia)*; Ran Zhang (University of British Columbia); Rakiba Rayhana (University of British Columbia); Zheng Liu (University of British Columbia) |
| | | | | | 38 | Evaluating Outlines as a Means to Segment Stains - A User Study | Tamino Huxohl (Bielefeld University)*; Franz Kummert (Bielefeld University) |
| | | | | | 3 | Automated Pain Estimation based on Facial Action Units from Multi-Databases | Manh Tu VU (LaBRI)*; Marie Beurton-Aimar (LaBRI); Pierre-yves Dezaunay (Lucine); Marine Cotty Esloos (Lucine) |
| | | | | | 43 | Sensor Dataglove for Real-time Static and Dynamic Hand Gesture Recognition | Md Ahasan Atick Faisal (University of Dhaka); Farhan Fuad Abir (University of Dhaka)*; Mosabber Uddin Ahmed (University of Dhaka) |
| | 1425 | 1435 | Session Break (stay tuned) | | | | |

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| 1435 | 1550 | D1S2 | Computational Intelligence-2 | 126 | Human Action Recognition Based on a Sequential Deep Learning Model | <i>Niloy Sikder (Khulna University); Md Atiqur Rahman Ahad (University of Dhaka); Abdullah-Al Nahid (Khulna University)*</i> |
| <p><i>Session Chair:</i> <i>Sankar K. Pal, Life Fellow IEEE, Fellow TWAS, Fellow IAPR, Fellow IAFS, Fellow IRSS National Science Chair Distinguished Scientist and Former Director, Indian Statistical Institute, India; 2013 Padma Shri (one of the highest civilian awards)</i></p> | | | | 4 | Content Based News Recommendation Engine using Hybrid BiLSTM-ANN Feature Modelling | <i>Sashank Sridhar (Anna University)*; Sowmya Sanagavarapu (Anna University)</i> |
| | | | | 118 | Semantic Representation of Sentences Employing an Automated Threshold | <i>Md. Atabuzzaman (University of Information Technology and Sciences)*; Md Shajalal (Hajee Mohammad Danesh Science and Technology University, Bangladesh); Masaki Aono (Toyohashi University of Technology)</i> |
| | | | | 40 | Unsupervised morphological analysis of minority languages with NPYLM | <i>Shinya Matsushita (Mie university)*; Haruhiko Takase (Mie University)</i> |
| | | | | 48 | Alignment Free Sequence Similarity Estimation using Local Binary Pattern on DNA Trajectory Images | <i>Syed Nayem Hossain (Military Institute of Science and Technology (MIST))*; Md. Hasanul Kabir (Islamic University of Technology); Arnab Pal (Military Institute of Science and Technology (MIST))</i> |
| | | | | 1550 1600 | | |
| 1600 | 1700 | D1WIP1 | Work-in-Progress | 79 | WIP: A Study on Endoscopic Surgery Support System | <i>Masakazu Morimoto (University of Hyogo, JAPAN)*; Teijiro Isokawa (University of Hyogo); Nobuyuki Matsui (University of Hyogo)</i> |
| <p><i>Session Chair Panel:</i> <i>Atsushi Inoue, AWS; Mie University, Japan</i></p> <p><i>Emi Yuda, Tohoku University, Japan</i></p> <p><i>Hiroharu Kawanaka, Mie University, Japan</i></p> <p><i>Shinji Kawakura, Osaka City University</i></p> | | | | 35 | WIP: Bengali Fake News Detection: Transformer Based Technique with Masked LM Process by BERT | <i>Sourav Saha (United International University); Aditi Sarker (Cumilla University); Partha Chakraborty (Comilla University)*</i> |
| | | | | 129 | WIP: A Method for Action Quality Analysis from Skeleton Data of Rehabilitation Exercises | <i>Faizul Rakib Sayem (University of Dhaka)*; Md. Mamun Sheikh (University of Dhaka); Md Atiqur Rahman Ahad (University of Dhaka)</i> |
| | | | | 82 | WIP: Study of Clothing Fabric Material Identification Using Smartphone Camera | <i>Ryohei Koike (Meijo niversity)*; Keiichi Yamada (Meijo University)</i> |
| | | | | 16 | WIP: Human Activity Analysis and Recognition from Smartphones using Machine Learning Techniques | <i>Jakaria Rabbi (KUET)*; Tahmid Hasan Fuad (KUET); Md. Abdul Awal (KUET)</i> |
| | | | | 136 | WIP: Res-Dense Net with Focal Loss for Plant Pathology classification | <i>Huy Quoc Trinh (Ho Chi Minh University of Science)*; Minh-Van Nguyen (Ho Chi Minh university of Science); Phạm Huy (FPT UNIVERSITY)</i> |
| | | | | 1700 1710 | | |
| 1710 | 1825 | D1S3 | Pattern Analysis | 81 | A Hybrid Robust ANFIS Based on Noise Fuzzy Clustering | <i>Katsuhiro Honda (Osaka Prefecture University)*; Satoshi Hyakutake (Osaka Prefecture University); Seiki Ubukata (Osaka Prefecture University); Akira Notsu (Osaka Prefecture University)</i> |
| <p><i>Session Chair:</i> <i>Yoshinori Kuno, Saitama University, Japan</i></p> | | | | 111 | CNN-NSVM Architecture for Skin Lesion Classification Using Non-Dermoscopic Digital Image | <i>Md. Mohsin Kabir (Bangladesh University Of Business and Technology); Parisa Mehera (University of Asia Pacific); Aloke Kumar Saha (University of Asia Pacific); M. Firoz Mridha (BUBT)*; Md. Abdul Hamid (King Abdulaziz University); Prof. Mohammad Mostafa Monowar (King Abdul Aziz University)</i> |
| | | | | 41 | Intracranial Hemorrhage Brain Image Non-rigid Registration from Real-world Dataset to Reference Space | <i>Tan Nhat Le (Kyushu Institute of Technology)*; Syoji Kobashi (University of Hyogo); Koichi Arimura (Kyushu University Hospital); Koji Iihara (National Cerebral and Cardiovascular Center Hospital); Sozo Inoue (Kyushu Institute of Technology)</i> |

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| | | | 134 | Fast Run-Based Connected Components Labeling for Bitonal Images | Wonsang Lee (Individual); Stefano Allegretti (Università degli Studi di Modena e Reggio Emilia); Federico Bolelli (Università degli Studi di Modena e Reggio Emilia)*; Costantino Grana (University of Modena and Reggio Emilia) |
| | | | 32 | AcPgChecker: Detection of Plagiarism among Academic and Scientific Writings | Atish Kumar Dipongkor (University of Dhaka)*; Rayhanul Islam (University of Dhaka); Md. Shafiuzzaman (Jashore University of Science and Technology); Md Asif Nashiry (Jashore University of Science and Technology); Syed Md. Galib (JSTU); Khaza Moinuddin Mazumder (University of Dhaka) |
| 1825 | 1835 | Networking | | | |

| 17-Aug | Start | End | Session | Topic | ID | Title | Authors (with affiliations) |
|---|---|----------------------------|---------|----------------------|------|---|--|
| | 1200 | 1330 | D2S1 | Machine Intelligence | 24 | Analyzing a Curvature Scale Space Approach to Dent Counting in Blobs | Matthew Sottile (Washington State University); Laramie Paxton (Marian University)* |
| | Session Chair: <i>Syoji Kobashi, SMIEEE, Director, Advanced Medical Engineering Center (AMEC), University of Hyogo, Japan</i> | | | | 67 | An Effective Text Steganographic Scheme Based on Multilingual Approach for Secure Data Communication | Md. Shazzad -Ur- Rahman (Bangladesh University of Professionals)*; Md. Mahib Hosen Ornob (Bangladesh University of Professionals); Amit Singha (Jahangirnagar University); Shamim Kaiser (Jahangirnagar University); Nahid Ibne Akhtar (Bangladesh University of Professionals) |
| | | | | | 6 | Causality Analysis Model Developed using Structural Agnostic Model Based on Generative Adversarial Networks of Deep Learning for Agricultural Workers | Shinji Kawakura (Osaka City Univ.)*; Ryosuke Shibasaki (University of Tokyo) |
| | | | | | 93 | AutoAct: An Auto Labeling Approach Based on Activities of Daily Living in the Wild Domain | Iqbal Hassan (Ahsanullah University of Science and Technology)*; Abtahi Mursalin (Ahsanullah University of Science and Technology); Robin Bin Salam (Ahsanullah University of Science and Technology); Nazmus Sakib (Ahsanullah university of science and technology); H M Zabir Haque (Ahsanullah University of Science and Technology) |
| | | | | | 103 | Development of a Bangla Speech to Text Conversion System Using Deep Learning | Srijoni Saha (Chittagong University of Engineering & Technology)*; Asaduzzaman (Chittagong University of Engineering and Technology) |
| | | | | | 53 | Bengali Fake News Detection Using Machine Learning and Effectiveness of Sentiment as a Feature | Md. Yasmi Tohabar (Shahjalal University of Science and Technology)*; Nahiyen Nasrah (Shahjalal University of Science and Technology); Asif Mohammed Samir (Shahjalal University of Science and Technology) |
| 1330 | | | | | 1335 | Session Break (stay tuned) | |
| | 1335 | 1420 | K2 | Keynote Speech | | Richard Hartley , Fellow, IEEE; Fellow, Australian Academy of Science; Fellow, Australian Mathematical Society; Australian National University, Australia Title: Structure and Reflectance Reconstruction through integrating along a vector field | |
| Session Chair: <i>Md Atiqur Rahman Ahad, SMIEEE, SMOSA, University of Dhaka, Bangladesh; Osaka University, Japan (General Chair, 10th ICIEV & 5th IVPR)</i> | | | | | | | |
| 1420 | 1430 | Session Break (stay tuned) | | | | | |

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| 1430 | 1600 | D2S2 | Deep Learning-1 | 57 | Wasserstein Based EmoGANs+ | Shwe Sin Khine Win (Japan Advanced Institute of Science and Technology)*; Prarilyna Siritanawan (Japan Advanced Institute of Science and Technology); Kazunori Kotani (Japan Advanced Institute of Science and Technology) |
| <p><i>Session Chair:</i> Emily Hand, University of Nevada, Reno, USA</p> <p><i>Shiqi Yu, Southern University of Science & Technology, China</i></p> | | | | 91 | LDSNet: A Lightweight Convolutional Networks Using Dense Connection and Feature Selection Module | Yu Zhang (Inner Mongolia University)*; Yingdong Ma (Inner Mongolia University) |
| | | | | 127 | A Vision-Based Lane Detection Approach for Autonomous Vehicles Using a Convolutional Neural Network Architecture | Md. Al-Masrur Khan (Dong-A university); Seong-Hoon Kee (Dong-A University); Niloy Sikder (Khulna University); Md. Abdullah-Al Mamun (Khulna University); Fatima Tuz Zohora (Khulna University); Md. Tariq Hasan (Khulna University); Anupam Kumar Bairagi (Khulna University); Abdullah-Al Nahid (Khulna University)* |
| | | | | 116 | CSVC-Net: Code-Switched Voice Command Classification using Deep CNN-LSTM Network | Arova Yasmeen (Islamic University of Technology); Fariha I Rahman (Islamic University of Technology); Sabbir Ahmed (Islamic University of Technology)*; Md. Hasanul Kabir (Islamic University of Technology) |
| | | | | 69 | 3D-2D BCNN based Automated Feature Extraction & Classification for Hyperspectral Imaging | Hasin Rehana (University of Dhaka); Sayed SA Asaduzzaman (Rangamati Science and Technology University)*; Rana Chakma (Rangamati Science and Technology University) |
| | | | | 110 | A Deep Learning Approach For Bangla Image Captioning System | Toshiba Kamruzzaman (Rajshahi University of Engineering & Technology)*; Soomanib Kamruzzaman (Khulna University of Engineering & Technology); Abir Zaman (Rajshahi University of Engineering & Technology) |
| 1600 | 1610 | <i>Session Break (stay tuned)</i> | | | | |
| 1610 | 1710 | D2WIP2 | Work-in-Progress | 62 | WIP: Development of a 3D printed fluid-driven spinal posture corrector | G. M. Asadullah (Gunma University)*; Magzhan Atykhan (Nazarbayev University); Md H Ali (Nazarbayev University); Kotaro Hashikura (Gunma University); MAS Kamal (Gunma University); Kou Yamada (Gunma University) |
| <p><i>Session Chair Panel:</i> Atsushi Inoue, AWS; Mie University, Japan</p> <p><i>Kotaro Hashikura, Gunma University, Japan</i></p> <p><i>Md Hazrat Ali, Nazarbayev University, Kazakhstan</i></p> <p><i>Shinji Kawakura, Osaka City University</i></p> | | | | 75 | WIP: Design and Implementation of a Prosthetic Hand | Syed Jamiul Alam (University of Dhaka); Iffat Arefa (University of Dhaka)* |
| | | | | 85 | WIP: Solving TSP by Ant Colony Optimization with Adaptive Visibility | A. S. B. Shahadat (Khulna University of Engineering & Technology); M. A. H. Akhand (Khulna University of Engineering & Technology)*; MAS Kamal (Gunma University) |
| | | | | 135 | WIP: Detection Criteria for Knee Osteoarthritis using Acoustic Emission | Nazmush Sakib (Saga University); Md Moznuzzaman (Saga University)*; Arif Abdullah Rashid (Saga University); Md. Mehedi Hassan (Saga University); Md. Tawhidul Islam Khan (Saga University); Shuya Ide (Saga University) |
| | | | | 109 | WIP: Design a Coaxial Feed Microstrip Patch Antenna for Vehicular Communication | Nazmus Saki (INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA)*; MAS Kamal (Gunma University); SITI NOORJANNAH IBRAHIM (International Islamic University Malaysia); M. M. HASAN MAHFUZ (International Islamic University Malaysia) |
| | | | | 99 | WIP: Development of an Optimal Traffic Coordination System for Connected and Automated Vehicles | Yuta Sakaguchi (Gunma university)*; ASM Bakibillah (Monash University); Kotaro Hashikura (Gunma University); MAS Kamal (Gunma University); Kou Yamada (Gunma University) |
| 1710 | 1720 | <i>Session Break (stay tuned)</i> | | | | |

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| 1720 | 1850 | D2S3 | Healthcare & Emotion | 36 | Detection of Parkinson's Disease by Employing Boosting Algorithms | Mirza Muntasir Nishat (Islamic University of Technology)*; Tasnimul Hasan (Islamic University of Technology); Sarker Md. Nasrullah (North South University); Fahim Faisal (Islamic University of Technology); Md. Asfi-Ar-Raihan Asif (Islamic University of Technology); Ashraful Hoque (Islamic University of Technology) |
| <p><i>Session Chair:</i> <i>Vincenzo Piuri, FIEEE,</i> <i>University of Milan, Italy;</i> <i>IEEE Region 8 Director-Elect 2021-22</i></p> | | | | 86 | Comparison of Prognostic Determinants after Myocardial Infarction using Holter ECG Data at 72-h | Emi Yuda (Tohoku University)*; Junichiro Hayano (Nagoya City University); Itaru Kaneko (Nagoya City Univ); Yutaka Yoshida (Nagoya City University) |
| | | | | 132 | ESLCE: A Dataset of Emotional Sounds from Large Crowd Events | Md Ahasan Atick Faisal (University of Dhaka)*; Mosabber Uddin Ahmed (University of Dhaka); Md Atiqur Rahman Ahad (University of Dhaka) |
| | | | | 27 | Parkinson's Disease Detection Using ResNet50 With Transfer Learning | Md. Abu Layek (Jagannath University)*; Nusrat Jahan (Jagannath University); Arifatun Nesa (Jagannath University) |
| | | | | 96 | Fine-Grained Emotion Recognition from EEG Signal Using Fast Fourier Transformation and CNN | Mahmudul Hasan (University of Asia Pacific); Rokhshana - Nishat - Anzum (University of Asia Pacific); Samina Yasmin (University of Asia Pacific); Tanmoy Sarkar Pias (Virginia Tech)* |
| | | | | 124 | Improved Transfer Learning Architecture to Classify Covid-19 Affected Chest X-Rays using Noisy Student Pre-training | Md. Asif Iqbal Fahim (Green University of Bangladesh)*; Feroza Naznin (Green University of Bangladesh); Mohammad Ali Moni (University of New South Wales); Md Zahidul Islam (Islamic University) |

| 18-Aug | Start | End | Session | Topic | ID | Title | Authors (with affiliations) |
|---|-------|----------------------------|---------|-------------------------|---|---|---|
| | 1200 | 1315 | D3S1 | Healthcare & Biomedical | 80 | Effects of Lower Limb Muscle Activities to Osteoarthritic Knees | Md Moznuzzaman (Saga University)*; Md. Tawhidul Islam Khan (Saga University); Budrun Neher (Jahangirnagar University); Shuya IDE (Saga university) |
| <p><i>Session Chair:</i> <i>Junzo Watada, Waseda University,</i> <i>Japan;</i> <i>Zhejiang Gongshang University,</i> <i>China</i></p> | | | | 95 | ECG Arrhythmia Classification Using 1-D Convolution Neural Network Leveraging the Resampling Technique and Gaussian Mixture Model | Md Remon Hasan Apu (University of Asia Pacific); Fahmeda Akter (University of Asia Pacific); Mst. Farzana Akhtar Lubna (University of Asia Pacific); Tanjina Helaly (University of Asia Pacific); Tanmoy Sarkar Pias (Virginia Tech)* | |
| | | | | 106 | Automatic Identification of Mice Social Behavior through Multi-Modal Latent Space Clustering | Temuge Batpurev (Kyushu Institute of Technology)*; Tomohiro Shibata (Kyushu Institute of Technology); Jumpei Matsumoto (University of Toyama); Hisao Nishijo (University of Toyama) | |
| | | | | 131 | A Residual Network with Focal Loss to Handle Class-imbalance Problem on Nurse Care Activity Recognition | Md. Mamun Sheikh (University of Dhaka)*; Faizul Rakib Sayem (University of Dhaka); Md Atiqur Rahman Ahad (University of Dhaka) | |
| | | | | 128 | Automated Rehabilitation Exercise Assessment by Genetic Algorithm-optimized CNN | Md. Johir Raihan (Khulna University); Md Atiqur Rahman Ahad (University of Dhaka); Abdullah-Al Nahid (Khulna University)* | |
| 1315 | 1325 | Session Break (stay tuned) | | | | | |
| | 1325 | 1440 | D3S2 | Control & Systems | 84 | Robust Adaptive Sliding Mode Excitation Controller Design with External Disturbances for Synchronous Generators | Tushar Kanti Roy (RUET)*; Farjana Faria (RUET); Md Abu Hanif Pramanik (Rajshahi University of Engineering and Technology); Subarto Kumar Ghosh (RUET) |

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| <p><i>Session Chair:</i> Kou Yamada, Gunma University, Japan</p> <p>MAS Kamal, Gunma University, Japan</p> | 123 | Static Output Feedback Stabilizing Control for Takagi-Sugeno Fuzzy Systems | <i>Yuto Asai (Aoyama Gakuin University)*; Taku Itami (Aoyama Gakuin University); Jun Yoneyama (Aoyama Gakuin University)</i> |
| | 101 | A Wideband Rectangular Microstrip Patch Antenna with Partial Ground Plane for 5G Applications | <i>Liton Chandra Paul (Pabna University of Science and Technology)*; Md. Hossain Ali (Pabna University of Science and Technology); Nayan Sarker (BUBT); Md. Zulfiker Mahmud (Jagannath University); Rezaul Azim (University of Chittagong); M. T. Islam (Universiti Kebangsaan Malaysia)</i> |
| | 102 | Smart Gas Sensing using Single MOS Gas Sensor with Adaptive Gradient Boosting | <i>Vishakha Pareek (AcSIR)*; Rahul Prajesh (AcSIR and CSIR-CEERI); Santanu Chaudhury (IIT Delhi); Sanjay Singh (CSIR-CEERI, Pilani)</i> |
| | 83 | Robust Adaptive Backstepping Sliding Mode Controller for a DC-DC Buck Converter Fed DC Motor | <i>Tushar Kanti Roy (RUET)*; Farjana Faria (RUET); Subarto Kumar Ghosh (RUET); Md Abu Hanif Pramanik (Rajshahi University of Engineering and Technology)</i> |

1440 1450 **Session Break (stay tuned)**

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| 1450 | 1550 | Workshop: Women-in-Engineering | Women in Tech: What's in your mind? |
| Speakers: | | | <ul style="list-style-type: none"> • Kaori Yoshida, Kyushu Institute of Technology, Japan • Yuki Nakagawa, RT Corp., Japan • Sakiko Judge Ito, AWS Japan, Japan • Lafifa Jamal, University of Dhaka, Bangladesh |

1550 1555 **Session Break (stay tuned)**

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| 1555 | 1710 | D3S3 | <i>Deep Learning-2</i> | 11 | A Deep Learning Approach for Bangla Speech to Text Conversion | <i>Raima Adhikary (Jahangirnagar University); Kaniz Fatema (Jahangirnagar University); Sifat-E- Jahan (Jahangirnagar University)*; Mohammad Abu Yousuf (Institute of Information Technology, Jahangirnagar University)</i> |
| <p><i>Session Chair:</i> Md. Abdur Razzaque, SMIEEE, Pro-Vice Chancellor, Green University of Bangladesh, Bangladesh</p> | 89 | Character Animation Using Reinforcement Learning and Imitation Learning Algorithms | <i>Tokey Tahmid (Brac University); Mohammad Abu Lobabah (Brac University); Muntasir Ahsan (Brac University); Raisa Zarin (Brac University); Sabah Shahnoor Anis (Brac University); Faisal Bin Ashraf (Brac University)*</i> | | | |
| | 37 | Automatic Extraction of Road Networks from Satellite Images by using Adaptive Structural Deep Belief Network | <i>Shin Kamada (Prefectural University of Hiroshima)*; Takumi Ichimura (Prefectural University of Hiroshima)</i> | | | |
| | 120 | A Systematic Review on the Chronological Development of Bangla Sign Language Recognition Systems | <i>Ms.Ayesha Khatun (International University of Business Agriculture and Technology); Mohammad Sajid Shahriar (International University of Business Agriculture and Technology); Md Hasibul Hasan (International University of Business Agriculture and Technology); Krishna Das (International University of Business Agriculture and Technology); Sabbir Ahmed (Islamic University of Technology); MD. Sakibul Islam (Islamic University of Technology)*</i> | | | |
| | 44 | BiLSTM with Back Translation Model for Bangla-English Machine Translation | <i>Arna Roy (Khulna University of Engineering & Technology); Argha Dhar (KUET); M. A. H. Akhand (Khulna University of Engineering & Technology)*; MAS Kamal (Gunma University)</i> | | | |

1710 1720 **Session Break (stay tuned)**

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| 1720 | 1820 | D3WIP3 | Work-in-Progress | 137 | WIP: Medical Incident Prediction Through Analysis of Electronic Medical Records Using Machine Learning: Fall Prediction | Atsushi Yanagisawa (Takatsuki High School); Chinthaka Premachandra (Shibaura Institute of Technology); Hiroharu Kawanaka (Mie University); Atsushi Inoue (AWS)*; Takeo Hata (Osaka Medical and Pharmaceutical University); Eiichiro Ueda (Osaka Medical and Pharmaceutical University) |
| <p><i>Session Chair Panel:</i> <i>ASM Bakibillah, Monash University, Australia</i></p> <p><i>Atsushi Inoue, AWS; Mie University, Japan</i></p> <p><i>Emi Yuda, Tohoku University, Japan</i></p> <p><i>Hiroharu Kawanaka, Mie University, Japan</i></p> <p><i>Shinji Kawakura, Osaka City University</i></p> | | | | 94 | WIP: An Easily Operable IoT-Based Health Monitoring System | Md Nazmul Huda (Institute of Science and Technology)*; Md Abu Rasel (Institute of Science and Technology); Nusrat Ferdous (Institute of Science and Technology) |
| | | | | 121 | WIP: A research on Estimation of Visual Prognosis in Branch Retinal Vein Occlusion Using Optical Coherence Tomography | Kazuya Imamura (Mie University)*; Hiroharu Kawanaka (Mie University); Yoshitsugu Matsui (Mie University Hospital Ophthalmology) |
| | | | | 78 | WIP: Clinical Dataset for Hypertension Risk Prediction | Iffat Arefa (University of Dhaka)*; Abu Bakar Siddique (Euro-Bangla Heart Hospital Ltd.); Mohammad S. Alam (University of Dhaka); Mohammad Tanviruzzaman (Chemical Engineering, University of Nottingham) |
| | | | | 88 | WIP: The Effects of Augmentation Using GAN for Confocal Immunofluorescence Image Segmentation | Daiki Katsuma (Mie University)*; Hiroharu Kawanaka (Mie University); Bruce J. Aronow (Cincinnati Children's Hospital Medical Center); V. B. Surya Prasath (Cincinnati Children's Hospital Medical Center) |
| | | | | 30 | WIP: Cell Spreading Video Coding Improvements using Lifting Scheme | Yassine Habchi (University Center Salhi Ahmed Naama)*; Ameer Fethi Aimer (University Center of Naama); Mohammed BELADGHAM (Université Tahri Mohammed Bechar); Riyadh Bouddou (UDL University of Djilali Liabes Sidi Bel Abbes) |

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|------|------|----|----------------|--|--|--|
| 1820 | 1905 | K3 | Keynote Speech | Anton Nijholt, University of Twente, The Netherlands Title: Social Augmented Reality Interactions | | |
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Session Chair:
Mark Nixon, FIET FIAPR BMVA Distinguished Fellow 2015; University of Southampton, UK

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| 1905 | 2000 | Award | Award Ceremony | | | |
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| 19-Aug | Start | End | Session | Speakers |
|--------|--|------|------------------|--|
| | 1200 | 1300 | Industry Session | AI Entrepreneurship in Cloud: Behavioral Recognition |
| | <i>Session Chair: Atsushi Inoue, AWS; Mie University</i> | | | <ul style="list-style-type: none"> • Yoshitaka Haribara, PhD (Startup Solutions Architect at AWS Japan; ML Specialist Solutions Architect, AWS Japan) • Tatsuya Urabe, PhD (Machine Learning Solutions Architect at AWS Japan) |