PROGRAM BOOKLET

8th International Conference
on
The Role of Data Science and Data Science in 4IR

26-28 December, 2024

Organized by
Department of Statistics,
University of Rajshahi, Bangladesh
https://icrsds4ir.ru.ac.bd/

Summary Program

Day 1: Thursday, December 26, 2024

Time	Event	Venue
08:00 - 09:00	Registration and Conference Kits Collection	Shaheed Tajuddin Ahmad (Senate) Bhaban
09:00-10:30	Inaugural Ceremony	Shaheed Tajuddin Ahmad (Senate) Bhaban
10:30-10:40	Tea and Coffee Break	
10:40-11:20	Keynote Session – I	Shaheed Tajuddin Ahmad (Senate) Bhaban
11:20-12:00	Keynote Session – II	Shaheed Tajuddin Ahmad (Senate) Bhaban
12:00-12:40	Keynote Session – III	
12:40-13:10	Plenary Session – I	Shaheed Tajuddin Ahmad (Senate) Bhaban
13:10-14:30	Lunch Break	
14:30-16:00	Special Invited Session - I: Health Informatics	Room: 337
14:30-16:00	Contributed Session-I: Image Processing and AI - I	Room: 338
14:30-16:00	Contributed Session-II: Agriculture, Environmental Statistics and Time Series Modeling – I	Room: 348
14:30-16:00	Contributed Session-III: Epidemiology and Biostatistics - I	Room: 334
16:00-16:15	Tea and Coffee Break	
16:15-17:30	Contributed Session-IV: Genetics and Bioinformatics - I	Room: 337
16:15-17:30	Contributed Session-V: Demography - I	Room: 338
16:15-17:30	Contributed Session-VI: Industrial Statistics, Reliability and Survival Analysis, 4IR	Room: 348
16:15-17:30	Contributed Session-VII: Health Statistics - I	Room: 334
17:30 -18:00	Tea and Coffee Break	
18:00-19:30	Special Invited Session - II: Statistical Modeling and Applications; Courtesy: Bangladesh Statistical Association (BSA)	Room: 337
18:00-19:30	Contributed Session-VIII: Machine Learning - I	Room: 338
18:00-19:30	Contributed Session-IX: Genetics and Bioinformatics - II	Room: 348
18:00-19:30	Contributed Session-X: Health Statistics - II	Room: 334
19:30-21:00	Dinner	

Day 2: Friday, December 27, 2024

Time	Event	Venue
09:00-09:35	Plenary Session – II	Eng. Faculty Conf. Room
09:35-10:10	Plenary Session – III	Eng. Faculty Conf. Room
10:10-10:45	Plenary Session – IV	Eng. Faculty Conf. Room

10:45-11:00	Tea and Coffee Break	
11:00-12:45	Round Table Discussion	Eng. Faculty Conf. Room
12:45-14:30	Lunch Break	
14:30-16:00	Contributed Session-XI: Big Data Analytics, Cybersecurity, Robotics Data Mining, Cloud Computing, IoT, Data Science	Room: 334
14:30-16:00	Contributed Session-XII: Health Statistics - III	Room: 337
14:30-16:00	Contributed Session-XIII: Agriculture, Environmental Statistics and Time Series Modeling – II	Room: 338
14:30-16:00	Contributed Session-XIV: Epidemiology and Biostatistics - II	Room: 348
16:00-16:15	Tea and Coffee Break	
16:15-17:30	Contributed Session-XV: Genetics and Bioinformatics - III	Room: 334
16:15-17:30	Contributed Session-XVI: Statistical Modeling, Inference and Simulation – I	Room: 337
16:15-17:30	Contributed Session-XVII: Demography - II	Room: 338
16:15-17:30	Contributed Session-XVIII: Miscellaneous - I	Room: 348
17:30-18:00	Prayer Break	
18:00-21:00	Cultural Program and Conference Dinner	Victoria Convention Hall, Terokhadia

Day 3: Saturday, December 28, 2024

Time	Event	Venue
9:00-10:40	Invited Session-III: Statistical Modeling and 4IR	Room: 337
9:00-10:40	Contributed Session-XIX: Agriculture, Environmental Statistics and Time Series Modeling – III	Room: 338
9:00-10:40	Contributed Session-XX: Health Statistics - IV	Room: 348
9:00-10:40	Contributed Session-XXI: Statistical Modeling, Inference and Simulation – II	Room: 334
10:40-10:50	Tea and Coffee Break	
10:50-12:30	Contributed Session-XXII: Machine Learning - II	Room: 334
10:50-12:30	Contributed Session-XXIII: Genetics and Bioinformatics - IV	Room: 337
10:50-12:30	Contributed Session-XXIV: Miscellaneous - II	Room: 338
10:50-12:30	Contributed Session-XXV: Image Processing and AI - II	Room: 348
12:30-13:10	Keynote Session – IV	Room: 337
13:10-15:00	Poster Evaluation and Lunch Break	
15:00-17:00	Award and Scholarship Giving and Closing Ceremony	Room: 337

Detail Program

Day 1: Thursday, December 26, 2024

Time	Event	Venue
08:00-09:00	Registration and Conference Kits Collection	Shaheed Tajuddin Ahmad (Senate) Bhaban
09:00 – 10:30	Inaugural Ceremony	Shaheed Tajuddin Ahmad (Senate) Bhaban
10:30 – 10:40	Tea and Coffee Break	
10:40 - 11:20	**Keynote Session – I** Title: Statistics Is a Core Competency for Effective P. * Collaboration and Sound Science Speaker: Madhumita (Bonnie) Ghosh-Dastidar, PhD Head, RAND Statistics Group and President of American Statistical Association (ASA), USA. Session Chair: Prof. Shahjahan Khan, PhD Vice Chancellor, Asian University of Bangladesh, and Emeritus Professor, University of Southern Queensland, Australia	Shaheed Tajuddin Ahmad (Senate) Bhaban
11:20 - 12:00	Keynote Session - II Title: Evolution of Industrial Revolution – Now at the P.* Verge of the 5IR Speaker: Prof. Mir Masoom Ali, PhD George and Frances Ball Distinguished Professor of Statistics and Professor Emeritus of Mathematical Sciences Ball State University, USA Session Chair: Prof. Shahjahan Khan, PhD Vice Chancellor, Asian University of Bangladesh, and Emeritus Professor, University of Southern Queensland, Australia	Shaheed Tajuddin Ahmad (Senate) Bhaban
12:00 -12:40	Keynote Session - III Title: Contributions and Controversies of *Statistics* in P. * Research, Development and Public Decisions at the Age of Evidence-based Decision from Data Speaker: Prof. Shahjahan Khan, PhD Vice Chancellor, Asian University of Bangladesh, and Emeritus Professor, University of Southern Queensland, Australia Session Chair: Prof. M. Abdur Razzaque Department of Statistics, University of Rajshahi	Shaheed Tajuddin Ahmad (Senate) Bhaban
12:40 – 13:10	Plenary Session - I Title: Statistics in the Exploration of Jute Microbiomes P. * Speaker: Prof. Haseena Khan, PhD UGC Professor, University of Dhaka, Bangladesh Session Chair: Prof. Dr. Md. Asaduzzaman Shah Department of Statistics, University of Rajshahi	Shaheed Tajuddin Ahmad (Senate) Bhaban
13:10 - 14:30	Lunch Break	

Special Invited Session - I: Health Informatics
Session Chair: Prof. Dr. Md. Aminul Hoque, Department of Statistics, RU
Time: 14:30-16:00   **Room: 337**

Paper ID	Title and Author	Page
ID009	Pseudotime reconstruction using single cell RNA-seq data Indranil Mukhopadhyay	
ID0065	Impact of cancer diagnosis on life expectancy by area-level socioeconomic groups in New South Wales, Australia- A population-based study Md Mijanur Rahman*, Michael David, David Goldsbury, Karen Canfell, Kou Kou, Paramita Dasgupta, Peter Baade, Xue Qin Yu	
ID0163	Generative Artificial Intelligence (GenAI) in Student Assessments: Challenges, Opportunities, and Ethical Considerations in Higher Education Context Parves Sultan*, Tasmiha Tarafder, Belal Chowdhury	
ID0264	Robust eQTL model development for Single-Cell Sequencing data Most. Humaria Sultana, Md. Alamin*	
ID0278	Statistical Significance versus Clinical Significance: Do they carry the same meaning? Md. Nurul Amin*	

Contributed Session-I: Image Processing and AI - I
Session Chair: Prof. Dr. Mohammad Ohid Ullah, Department of Statistics, SUST
Time: 14:30-16:00   **Room: 338**

Paper ID	Title and Author	Page
ID0076	Factors Affecting the Adoption of Artificial Intelligence in Higher Education of Bangladesh: An Empirical Study Nilufa Akter, Md. Solaiman Chowdhury*, Iqbal Hossain Moral, Md. Mehedi Hasan, Md. Enamul Haque	
ID0147	DetectFake – an AI Based Real-Time Fact-Checking Web Platform Integrating API Data with Different Modern Technologies Mohammed Al Amin, Md. Mostafizur Rahman*, M. Sayedur Rahman	
ID0159	Multi-armed Bandit Algorithm: An Efficient method for Best Molecular Property Prediction Md. Menhazul Abedin*, Md. Maniruzzaman	
ID0171	Optimizing Hypertension Prediction Using Ensemble Learning Approaches Isteaq Kabir Sifat, Tajin Ahmed Jisa, Mifta Nurejannath, Md. Kaderi Kibria*	
ID0190	ChatGPT in Education: Empowering Students or Challenging Classical Learning? Hanjala Bin Rostum*, Ms Zannatul Mawa Shin	

Contributed Session-II: Agriculture, Environmental Statistics and Time Series Modeling - I
Session Chair: Prof. Dr. Provash Kumar Karmokar, Department of Statistics, RU
Time: 14:30-16:00   **Room: 348**

Paper ID	Title and Author	Page
ID0030	Predicting Climate Vulnerability of Wetland Zones in Bangladesh Using Machine Learning Techniques Md Azizul Baten*, Nazmul Haque	
ID0044	An Empirical Study on Bangladesh's Haor Areas: Examines Migration as a Livelihood Adaptation to Climate Change Bishwajit Sarker, Masud Alam, Md. Jamal Uddin*	
ID0046	Comparison Among SARIMA, ANN and Hybrid SARIMA-ANN Models for Rainfall Forecasting in Sylhet, Bangladesh Panna Shil*, Md. Azizul Baten	
ID0061	Volatility Forecast using a Hybrid GARCH-ANN Approach: The Case of Dhaka Stock Exchange Market Abdul Mazed, Md. Azizul Baten*	
ID0070	Nutritive Effects of Calcium Carbonate (CaCO3) on Some Commercial Traits of Mulberry Silkworm, Bombyx mori L. Md. Naymur Rahman*, Tabassum Firdaus Nuziefa, Md. Ariful Hasan	
ID0083	Generalized Vector Auto-regression: A Theoretical Approach Sharmin Sultana, Samiul Islam, and Md. Ayub Ali*	
ID0095	Forecasting Leafy Vegetable Production in Bangladesh: Unravelling the Nexus among Agro- meteorological Factors Md. Bayazid Hossen, Md. Fakhrul Hasan, Sheikh Mohammad Sayem*, Md. Bazlur Rashid	
ID0110	Analysis of Covariance in Augmented Randomized Block Design with a Single Explanatory Variable: An Empirical Evidence on Agronomic Crop Anika Tabassum Momo, Sheikh Mohammad Sayem*, Mohammad Amirul Islam	
ID0121	Performance of Models in Time and Frequency Domains for Forecasting Climatic Variables Md. Abdul Qayum*, Md. Rezaul Karim Md. Al Mehedi Hasan, Jahanur Rahman	

Contributed Session-III: Epidemiology and Biostatistics - I
Session Chair: Prof. Dr. Mohammed Taj Uddin, Department of Statistics, SUST
Time: 14:30-16:00   **Room: 334**

Paper	Title and Author	Page
ID0018	Assessing Leprosy Knowledge in Under-treated Patients: A Study in the Rajshahi Division, Bangladesh Md. Masud Rana*, Md. Farhad Hossain, Md. Nazrul Islam Mondal, Md. Rafiqul Islam	
ID0087	Molecular Docking and Dynamic Simulations Reveals Potential Antiviral Compounds for Redwater Fever: A Computational Approach Partha Sarathi Roy, Zobayed Islam, Nun Afruz Surove, Humaira Sheikh, Md. Ahad Ali*	
ID0101	Advances in eQTL tools for bridging bulk and single-cell sequencing for disease risk prediction Md. Iftikhar Alam Hrithik, Md. Jobayer Ahmed, Johaer Mahtab Prodhan, Aoutul Nabi	
ID0143	A Cross-Cultural Validation and Psychometric Properties of the Short Form of Weinstein Noise Sensitivity Scale (WNSS-SF) among Bangladeshi Contexts Pramath Chandra Sarker*, Md. Nur-E-Alam Siddique, Sabina Sultana	
ID0146	A Mathematical model on the Role of Waste Management and Public Awareness in Chikungunya Control Using Carrying Capacity Soumitro Kumar Das*, Jabed Hasan Maruf	

Paper ID	Title and Author	Page
ID0164	Forecasting the progress of nutritional status towards the target of Sustainable Development Goal among under five children in Bangladesh Md. Tahidur Rahman*, Dulal Chandra Roy, Papia Sultana	

Contributed Session-IV: Genetics and Bioinformatics -I
Session Chair: Prof. Dr. Md. Zakir Hossain, Department of Statistics, SUST
Time: 16:15-17:30 Room: 337

Paper ID	Title and Author	Page
ID0025	Bioinformatics-Driven Identification of Novel Pathogenic Missense SNPs in the Human SRC Proto-Oncogene and Cancer Susceptibility Md Shakil Ahamed, Fahmida Tabassum, Nadira Hoque Tashpie, Jannatul Fardous, Shahin Mahmud*	
ID0033	Cytokines and Inflammatory Biomarkers and Their Association with Post-operative Delirium: A Meta-analysis and Systematic Review Md Parvez Mosharaf*, Khorshed Alam, Jeff Gow, Rashidul Alam Mahumud	
ID0043	GAPred-ac4C: A hybrid ensemble model by genetic algorithm for detecting N4-acetylcytidine sites in human RNA Md. Harun-Or-Roshid, Hiroyuki Kurata*	
ID0051	Genomic Insights and Computational Discovery of Antimicrobial Resistance Genes and Therapeutic Candidates in Bordetella pertussis Riday Hossain, Fee Faysal Ahmed*	
ID0089	Exploring shared key genes for which Type 2 diabetes mellitus stimulates Hepatitis-B-virus infections Md. Feroj Ahmed, Md. Bayazid Hossen, Alvira Ajadee, Sabkat Mahmud, Md. Al Noman, Md. Foysal Ahmed, Md. Jahid Hasan Imran, Dewan Mumdood Ahmed, Md. Mahadi Hasan Murad, Sadia Sultana, Mst. Tahmina Akter, Md. Nurul Haque Mollah*	
ID0091	A Bioinformatics Approach to Disclose Host Genetic Signatures of Monkeypox Virus Infection and Therapeutic Indication Sabkat Mahmud, Alvira Ajadee, Md. Ahad Ali, Reaz Ahmmed, Md. Al Amin Pappu, Arnob Sarkar, Md. Nurul Haque Mollah*	
ID0102	RNA-Seq Data Analysis to Explore Therapeutic Targets and Agents for Thyroid Carcinoma Md. Masud Rana, Khanis Farhana Tuly*, Md. Nurul Haque Mollah	
ID0104	Discovery of Glioblastoma-Causing Mutated Oncodriver Genes from the Stem Cells of Subventricular Zone through the Whole Exome Sequence Profile Analysis, and Drug Arnob Sarker, Burhan Uddin, Reaz Ahmmed, Md. Sabkat Mahmud, Alvira Ajadee, Md. Al Amin Pappu, Md. Abdul Aziz, Md. Nurul Haque Mollah*	

Contributed Session-V: Demography - I
Session Chair: Prof. Dr. Md. Nurul Islam, Department of Statistics, RU
Time: 16:15-17:30 Room: 338

Paper ID	Title and Author	Page
ID0055	Analyzing Fertility Determinants in Bangladesh: A Machine Learning Approach Shayla Naznin*, Md Jamal Uddin, Ahmad Kabir	
ID0060	Impact of Internal Migration and Socioeconomic Factors on Health Status of Women in Bangladesh Emon Mitra, Monisha Talukdar, Tania Akter Dina, Shahadat Hossain Mehedi, Md Atiqul Islam*	

Paper ID	Title and Author	Page
ID0103	Multilevel logistic regression model factors influencing child marriage among women in South Asian countries: A comparative study Md. Ariful Islam*, Md. Kamrul Islam, Abu Sayed Md. Al Mamun, Tasfiah Tamanna, Chandan Kumar Sarkar, Md. Golam Hossain	
ID0113	Neonatal Mortality in Bangladesh: Pattern and Determinants Sumaiya Tasnim*, Md Zakir Hossain	
ID0136	Different Causes of Child Mortality in Bangladesh- A Survival Approach Tanha Akter Tithy, Md. Atiqul Islam*	
ID0167	Identifying interactive factors influencing quality antenatal care utilization in Bangladesh: Application of interpretable machine learning algorithm Md. Ismail Hossain*, Moumita Datta Gupta, Md. Mahfuzur Rahman	
ID0169	Rural-urban disparities in sexual inactivity among women of reproductive age in Bangladesh: A nationwide survey Md. Aslam Hossain, Md. Yeasin Arafat, A.M. Mujahidul Islam, Md. Golam Hossain*	
ID0181	Determinants of psychological aggression towards children in Bangladesh: A population-based study of MICS-2019 data Md. Eakub Ali, Md. Nazrul Islam Mondal*, Moynul Haque, Shela Parvin, Md. Shariful Islam	
ID0194	Impact of Vaccination Coverage on Life Expectancy: A Mixed-Effects Analysis with Country- Specific and Temporal Adjustments Antora Das*, Md. Rezaul Karim	

Contributed Session-VI: Industrial Statistics, Reliability and Survival Analysis, 4IR
Session Chair: Prof. Dr. Mesbahul Alam, Department of Statistics, RU
Time: 16:15-17:30   **Room: 348**

Paper ID	Title and Author	Page
ID0066	Leveraging Business Analytics for Enhanced Decision-Making Effectiveness in the Fourth Industrial Revolution: A PLS-SEM Analysis Md Nazrul Islam*, Md Shafayet Shahed Ornob	
ID0086	On the Performance of New Control Chart for the Inverse Rayleigh Distribution Md. Zahid Hassan, Yeasin Ali*, Limon Adhikari, Md. Murad Hossain	
ID0122	Mapping the landscape of 4IR technologies in precision agriculture: A comprehensive bibliometric review Md. Abdul Qayum*, Md. Abdur Rouf Sarkar, Md. Rezaul Karim	
ID0168	Governance and Employee Wellbeing in the Bangladeshi Readymade Garments (RMGs): The Role of Front-Line Managers Tasmiha Tarafder*, Parves Sultan	
ID0197	Quality of Laundry and Linen Services in a Tertiary Level Hospital: A Cross-sectional Study Arifatun Nesa, Sadhan Kumar Das, Tahazid Tamannur, Zaki Farzana, Shuvojit Kumar Kundu, Piue Dey, Foijun Nahar, Nadia Nowshin, Tasnim Haque Binty, Shafiul Azam Shakil, Mohammad Meshbahur Rahman*	

Contributed Session-VII: Health Statistics - I
Session Chair: Dr. Rashidul Alam Mahumud, The University of Sydney, Australia
Time: 16:15-17:30   **Room: 334**

Paper ID	Title and Author	Page
ID0017	Exposure-Influenced Mediator-Outcome Confounder in Causal Mediation Analysis: An Extended Methodological Framework Tarikul Islam*, Mahbub A. H. M. Latif	

Paper ID	Title and Author	Page
ID0027	Comparative Study on Caesarian and Normal Vaginal Delivery, Rajshahi Division, Bangladesh Md. Masud Rana*, Md. Abdul Wadood, Md. Golam Hossain	
ID0038	Prevalence of Perceived Stress and its Determinants Among University Students in Bangladesh Mohammad Kamal Hossain*, Arpita Halder	
ID0045	Investigating the relationship between mental health disorders and suicidal ideation and behavior among university students in Ali Ashraf Sakil, Md. Lingkur Rahman, Md. Murad Hossain*, Fatema Khairunnasa, Md. Zahid Hasan, Md. Tasnim Alam Shafin	
ID0057	The Prevalence of Loneliness and its Associated Risk Factors among University Students: A Cross-Sectional Study Sajida Sultana Shammy, Mohammed Taj Uddin*	
ID0062	Regional Variation of Child Malnutrition in Bangladesh Emon Mitra, Most. Sarmin Akter Rini, Shahadat Hossain Mehedi, Md Atiqul Islam*	
ID0100	Prevalence of Malnutrition of Under-Five Children and its Associated Factors in Selected South Asian Countries: A Comparative Study Md. Ashikuzzaman*, Md. Shariful Islam, Farhana Hasan, Abu Sayed Md. Al Mamun, Md. Sabiruzzaman, Md. Golam Hossain	
ID0105	Prevalence and associated factors of scabies among school students in Kushtia district, Bangladesh: A cross-sectional study Md. Mothashin*, Abu Sayed Md. Al Mamun, Md. Golam Hossain	

Special Invited Session - II: Statistical Modeling and Applications; Courtesy: Bangladesh Statistical Association (BSA)
Session Chair: Prof. Dr. Syed Shahadat Hossain, Institute of Statistical Research and Training, DU
Time: 18:00-19:30   Room: 337

Paper ID	Title and Author	Page
ID0036	Impacts of Industrial Automation Utilization on the Labor Market in Bangladesh Mohammad Mohidul Islam	
ID0085	Interval estimation of median odds ratio for measuring contextual effects in multilevel data with binary outcomes: An application to data from a complex survey Shafayet Khan Shafee, M. Shafiqur Rahman	
ID0117	Sensitivity Analysis with Matched Pairs from Observational Studies Priom Saha, Md. Abdul Basit and A. H. M. Mahbub Latif	
ID0244	Dynamic Prediction in Medical Prognosis: Integrating Random Survival Forest and Gradient Boosting in Mixed-Model Landmarking for Personalized Risk Assessment Md Hasinur Rahaman Khan and Nabil Ahmed Uthso	
ID0246	Evaluation of the Methods for Multi-Parameter Hypothesis Testing in Multiple Imputation: A Focus on Correlated Responses Md Rasel Biswas, AHM Mahbub Latif and Abdus S. Wahed	
ID0272	A Quasi-likelihood Approach for Correlated Binary Outcomes Jahida Gulshan, Azmeri Khan and M Ataharul Islam	
ID0325	The Impact of Unusual Season Changes on Nutrition in Bangladesh Syed Shahadat Hossain, Jahida Gulshan, Sheikh Mohammad Sayem, Md Bazlur Rashid	
ID0326	Influence of Age and Other Factors on Unmet Need for Contraception Among Married Women in Bangladesh Yasmin Siddiqua, Md. Alamgir Hossen, Syed Shahadat Hossain, Md. Ariful Islam	

Contributed Session-VIII: Machine Learning - I
Session Chair: Prof. Dr. Md. Jamal Uddin, Department of Statistics, SUST
Time: 18:00-19:30   **Room: 338**

Paper ID	Title and Author	Page
ID0034	Sentiment Analysis on MoneyGram Reviews, A Comparative Study of Machine Learning Models Md. Fahaduzzaman, Rehena Parveen, Md. Murad Hossain*, Sajib Chandra Das, Md. Golam Morshed	
ID0074	Machine Learning Techniques to Uncover Socio-demographic Risk Factors of Autism Spectrum Disorder (ASD) among Children and Adolescents in Bangladesh Md. Neaz Ali, Suman Biswas*	
ID0081	Sentiment Analysis of Tweets on the Earthquake in Turkey and Syria Using Machine Learning Approaches M. Zahid Hasan*, Ali Ashraf Sakil, Md. Murad Hossain	
ID0120	Delineate modifications to the rice area in coastal Bangladesh using remote sensing and machine learning Md. Abdullah Aziz*, Purba Anindita Khan, Farhana Rahman, Md. Ismail Hossain, Rokib Ahmed, Md Asadullah, Mir Md. Moniruzzaman Kabir, Aishik Debnath, Mst. Noorunnahar	
ID0123	ARAFnNet: A Novel Approach to Attribute-Aware and Context-Driven Visual Captioning Md Bipul Hossen*, Md. Shajaman, Md. Siddikur Rahman, Md. Aminul Hoque	
ID0127	Automated Lung Cancer Detection and Classification Using a Deep Learning Model Ahsan Habib, Md Sipon Miah*	
ID0131	Leveraging Machine Learning for Obesity Prediction among Ever-married Women in Bangladesh: Insights from Nationally Representative Data Suman Biswas*, Md. Mahamudul Islam, Nusrat Islam, Md. Abdur Rahim Mia	
ID0132	Heart Failure Prediction Using Machine Learning Models– A Comparative Study of Multiple Algorithms Shishir Oyshi, Tohura Ismail Peea, Most. Humaira Sultana, Md. Sumon Hossain, Md. Alamin*	

Contributed Session-IX: Genetics and Bioinformatics - II
Session Chair: Dr. Moudud Alam, School of Information and Engineering, Dalarna University, Sweden
Time: 18:00-19:30   **Room: 348**

Paper ID	Title and Author	Page
ID0109	Revealing Common Host Key-Genes for which Type-2 Diabetes Increase the Complexity of Monkeypox, and Common Drugs Repurposing Alvira Ajadee, Sabkat Mahmud, Md. Ahad Ali, Reaz Ahmmed, Md. Al Amin Pappu, Arnob Sarker, Md. Nurul Haque Mollah*	
ID0116	Statistical meta-analysis examining the relationship between the rs1042838 single-nucleotide polymorphism in the PGR gene and multiple types of cancer Umma Hafsah Himu, Md Rezwane Sadik, Md. Harun-Or-Roshid, Md. Bayazid Hossen, Saroje Kumar Sarkar, Md Nurul Haque Mollah*	
ID0119	The COMT gene guided drug discovery by molecular docking and dynamic simulation studies Umma Hafsah Himu, Md Rezwane Sadik, Md. Harun-Or-Roshid, Md. Bayazid Hossen, Saroje Kumar Sarkar, Md Nurul Haque Mollah*	

Paper ID	Title and Author	Page
ID0124	Computational discovery of common molecular signatures between Myasthenia gravis and Rheumatoid arthritis for diagnosis and therapies Dewan Mumdood Ahmed, Md. Bayazid Hossen, Alvira Ajadee, Sabkat Mahmud, Md. Al Noman, Md. Foysal Ahmed, Mst.Farhana Afrin, Md. Feroj Ahmed, Md. Mahadi Hasan Murad, Sadia Sultana, Mst. Tahmina Akter, Md. Jahid Hasan Imran, Md. Nurul Haque Mollah*	
ID0129	Identification of Potential circRNA Biomarker for Hepatocellular Carcinoma Saiful Islam Khondakar, Md. Tofazzal Hossain*	
ID0130	Identification of Potential LncRNA Biomarker for Gastric Cancer Md. Tofazzal Hossain*	
ID0133	Discovery of Shared Molecular Signatures for Which Melanoma and Renal Cell Carcinoma stimulate each other Mst.Farhana Afrin, Md. Bayazid Hossen, Alvira Ajadee, Sabkat Mahmud, Md. Al Noman, Md. Foysal Ahmed, Dewan Mumdood Ahmed, Md. Mahadi Hasan Murad, Md. Feroj Ahmed, Sadia Sultana,Md. Jahid Hasan Imran, Mst. Tahmina Akter, Md. Nurul Haque Mollah*	

Contributed Session-X: Health Statistics - II
Session Chair: Dr. Parves Sultan, Melbourne Institute of Technology, Australia
Time: 18:00-19:30   **Room: 334**

Paper ID	Title and Author	Page
ID0108	Improving Model Generalization and Robustness to Adversarial Attacks in Skin Lesion Classification Md Mahfuzur Rohman, Md Sipon Miah*	
ID0114	Undernutrition in Sylhet Division: An Overview of Underweight Md. Rashed Babu, Mossamet Kamrun Nesa, Sumaiya Tasnim, Md. Iqbal Hossain, Md. Jamal Uddin*	
ID0150	Spatial Analysis of Dengue Hospitalization in Bangladesh Atiya Tarannum, Sumaiya Tasnim*, Kanis Fatama Ferdushi	
ID0155	Unraveled the factors associated with dengue in a non-endemic zone of Bangladesh: A hospital- based cross-sectional study Md. Abu Sayem*, Md. Saiful Islam Khan, Md. Nurul Islam, Md. Golam Hossain	
ID0170	Nutritional status of Santal and Non-tribal school-going children living in high Barind tract region of Rajshahi district, Bangladesh Hasibul Hassan*, Parth Kumar Saha, Abu Sayed Md. Al Mamun, Md. Reazul Karim, Md. Golam Hossain	
ID0172	Effectiveness of Treatment Modalities on Quality of Life among Advanced Breast Cancer Patients: A Systematic Review and Meta-Analysis on RCTs Md. Mostafizur Rahman*, Mitanur Rahman Mim, Md Parvez Mosharaf, Md. Golam Hossain*	
ID0180	Exploring nutritional status determinants among adult men in Bangladesh: A multinomial logistic regression approach Shuvongkar Sarkar*, Md. Ismail Hossain, Muhammad Tareq, Tahsina Fariha Ohi, Shabnam Bashir	
ID0185	Logistic regression of factors influencing depression and its association with menstrual disturbance among university female students Sonali Akter*, Jannatul Ferdous, Shangida Khatun Eva, Abu Sayed Md. Al Mamun, Md. Golam Hossain	

Day 2: Friday, December 27, 2024

Time	Event	Venue
09:00 - 09:35	Plenary Session - II Title: Application of Statistical Techniques for Addressing P.* National Issues Speaker: Prof. Mohammad Kaykobad, PhD and Prof. Farzana Alam, PhD, BRAC University and European University of Bangladesh, Bangladesh Session Chair: Prof. Dr. S K Bhattacharjee, Department of Statistics, RU	Eng. Fac. Conf. Room
09:35 - 10:10	Plenary Session - III Title: Unveiling Bias: A Statistician's Quest for Data Equity in P.* Health Research Speaker: Prof. Bhramar Mukherjee, PhD Senior Associate Dean of Public Health Data Science and Data Equity; Anna M.R Lauder Professor of Biostatistics; Professor of Epidemiology (Chronic Diseases) and of Statistics and Data Science, Yale University, USA Session Chair: Prof. Dr. A.H.M. Rahmatullah Imon, Varendra University, Rajshahi, Bangladesh	Eng. Fac. Conf. Room
10:10 – 10:45	Plenary Session - IV Title: Common atoms mixture models in two biostatistical P.* inference problems Speaker: Prof. Peter Mueller, PhD Department of Statistics and Mathematics, University of Texas Austin, USA Session Chair: Prof. Dr. A.H.M. Rahmatullah Imon, Varendra University, Rajshahi, Bangladesh	Eng. Fac. Conf. Room
10:45 – 11:00	Tea and Coffee Break	
11:00 – 12:45	**Round Table Discussion: Relevance of Statistical Sciences in 4IR** Lead Speaker: Prof. Dr. A.H.M. Rahmatullah Imon, Varendra University, Rajshahi, Bangladesh Speakers: Prof. Shahjahan Khan, PhD, Vice Chancellor, Asian University of Bangladesh Prof. Dr. M. Sayedur Rahman, Department of Statistics, RU Prof. Dr. Syed Shahadat Hossain, Institute of Statistical Research and Training, DU Prof. Dr. Md Zakir Hossain, Department of Statistics, SUST	
12:45 – 14:30	Lunch Break	

Contributed Session-XI: Big Data Analytics, Cybersecurity, Robotics, Data Mining, Cloud Computing, IoT, Data Science
Session Chair: Prof. Dr. Md. Abdul Khalek, Department of Statistics, RU
Time: 14:30-16:00   **Room: 334**

Paper ID	Title and Author	Page
ID0056	Integrating Sampling Aspects and Re-sampling Techniques in Big Data for Finite Population Inference Md. Ayub Ali*, Dulal Chandra Roy	
ID0090	Smart Health Monitoring: An IoT-Based System for Enhanced Remote Patient Care and Early Detection Md. Ashraful Hossain, Hasibunnahar Swarna, Md Asif Imran, Md Mukter Hossain and Md. Alamin*	
ID0214	Advancements in Social Network Analysis through Graph Neural Networks Amrina Ferdous, Shams Tabraze Uddin Ahmed, Md. Ayub Ali*	
ID0224	Monitoring and Management Drought Vulnerability with different time scales and indices: An empirical study from Rajshahi and Rangpur District Saiful Islam, Md. Mostafizur Rahman*, M. Sayedur Rahman	
ID0239	Developing an Online Tool for Farmers to Early Detection of Rice Leaf Diseases Using Advanced Deep Learning Technique: A Case Study in Bangladesh Saad Sahriar, Sabba Ruhi, Md. Shamim Reza*	

Contributed Session-XII: Health Statistics - III
Session Chair: Dr. Md. Nurul Amin, Cardiac Hospital & Research Institute, Dhaka
Time: 14:30-16:00   **Room: 337**

Paper ID	Title and Author	Page
ID0189	Determinants of Risk Factors for Severe Diabetic Foot Ulcer among Type 2 Diabetic Patients in Bangladesh Shah Tanzen Jahan*, Md. Kabirul Islam, Anicha Akter, Md. Monimul Huq	
ID0202	Food Insecurity and Child Undernutrition in Bangladesh: Evidence from BDHS 2022 Md.Tarik Hasan, Jakiya Sultana, Mst. Dilara Pervin*	
ID0206	Early initiation of breastfeeding and illnesses of infants in Bangladesh: a survey in Rajshahi district Mobassira Islam, Parth Kumar Saha, Farhana Hasan*, Md. Golam Hossain	
ID0216	The Effect of Parental Education on Child Health and Development Miftahul Zannat Tamanna, Md. Mahmudul Alam, Md. Monimul Huq*	
ID0222	A comparative study on breastfeeding practices between Bengali mothers living in Bangladesh and India Anonnya Zaman Nodi*, Limon Chandra Ray, Abu Sayed Md. Al Mamun, Md. Golam Hossain	
ID0225	Exploring the impact of cluster effects on predicting child malnutrition in Bangladesh Mira Rani Debnath, Mst. Papia Sultana*, Dulal Chandra Roy	
ID0228	Health-related quality of life and its association with chronic comorbidity condition among cancer patients Sayeda Kaniz Sanjida Jahan, Tama Biswas, Abu Sayed Md. Al Mamun, Md. Golam Hossain*	

Contributed Session-XIII: Agriculture, Environmental Statistics and Time Series Modeling - II
Session Chair: Prof. Dr. Md. Ayub Ali, Department of Statistics, RU
Time: 14:30-16:00   **Room: 338**

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ID0128	Structural Equation Modelling of 3R (Reduce, Reuse and Recycle) Knowledge, Attitude and Practice among School Students in Bangladesh Rakin Hasan*, Adilah Abdul Ghapor, Md. Moniruzzaman, Abu Sayed Md. Al Mamun	
ID0144	Application of machine learning model for predicting rice yield loss or gain concerning meteorological features in Bangladesh Md. Abdullah Al Mamun*, Md. Ismail Hossain, Md. Abdul Qayum, Md. Abdullah Aziz	
ID0152	Forecasting Maximum Temperature in Rajshahi using Machine Learning Approaches Most. Shamole Akter, Md. Sifat Hossain, Md. Monimul Huq*	
ID0183	Application of Machine learning algorithms to predict the rainfall data of Chittagong District Md. Abu Saleh, Most. Rahnuma Afrin, Md. Mostafizur Rahman*, M. Sayedur Rahman	
ID0184	Volatility Modeling of Exchange Rate with GARCH approach: A comparative study of some selected SAARC countries Most. Rahnuma Afrin, Md. Abu Saleh, Md. Mostafizur Rahman*, M. Sayedur Rahman	
ID0188	Impact of different distributional assumptions on GARCH model for estimating and predicting some selected index of Dhaka Stock Exchange Ripon Mahmud Akash, Md.Sojib Hossain, Md. Mostafizur Rahman*, M. Sayedur Rahman	
ID0191	Investigating the impact of climate change on agriculture production and public health in Rajshahi district Mst. Naima Khatun, Farhana Hasan, Md. Mostafizur Rahman* Md. Abdul Khalek, M. Sayedur Rahman	
ID0213	Climate-Induced Water Scarcity: Impact on Farmers' Livelihoods Shahena Munni*, Md. Ayub Ali, Md. Monimul Huq	
ID0231	Machine learning algorithms for predicting rainfall based drought vulnerability: An empirical investigation Mst. Lubna Tasmin, Md. Monsur Rahman, Md. Mostafizur Rahman* Md. Abdul Khalek, M. Sayedur Rahman	

Contributed Session-XIV: Epidemiology and Biostatistics - II
Session Chair: Prof. Dr. Papia Sultana, Department of Statistics, RU
Time: 14:30-16:00   **Room: 348**

Paper ID	Title and Author	Page
ID0237	Joint Frailty Mixture Cure Model for Recurrent Event Data with Dependent Censoring: An MCEM Approach with Application to Colorectal Cancer Readmission Md Hasinur Rahaman Khan, Moudud Alam, Nasrin Sultana*	
ID0258	Prevalence and Trend of Acute Respiratory Infection (ARI), and its Association with Cooking Fuel among Under Five Years Aged Children in Nepal Md. Shihab Mostafa, Jakia Sultana Mim, Sidratul Muntaha, Md. Reduanul Islam, Syed Toukir Ahmed Noor, Abdullah Al Islam, Mohammad Romel Bhuia*	
ID0263	Prevalence and Trend of Acute Respiratory Infection (ARI), and its Association with Cooking Fuel among Under Five Years Aged Children in Nepal Md. Shihab Mostafa, Jakia Sultana Mim, Sidratul Muntaha, Md. Reduanul Islam, Syed Toukir Ahmed Noor, Abdullah Al Islam, Dr. Mohammad Romel Bhuia*	

Paper ID	Title and Author	Page
ID0267	In-Silico Evaluation of Psidium guajava Leaf Extract Compounds as Potential RSK2 Inhibitors in Breast Cancer: Insights from Molecular Docking, MD Simulations, Quantum Mechanics, ADME, and Toxicity Analysis Fahad Ibne Rahman*, Nayan Kumar Sarkar, Suraya Rahman	
ID0321	A simulation study to assess the sensitivity of concordance measures to the added predictive ability in survival prediction models Maliha Binte Alauddin*, M. Shafiqur Rahman	

Contributed Session-XV: Genetics and Bioinformatics - III
Session Chair: Prof. Dr. Md. Shamim Reza, Department of Statistics, PUST
Time: 16:15-17:30   **Room: 334**

Paper ID	Title and Author	Page
ID0134	Unveiling common Key Genes Linking T2DM to Myocardial Infarction: Identifying Potential Drug Targets Mst. Tahmina Akter, Md. Jahid Hasan Imran, Md. Bayazid Hossen, Alvira Ajadee, Sabkat Mahmud, Md. Feroj Ahmed, Sadia Sultana, Md. Mahadi Hasan Murad, Md. Nurul Haque Mollah*	
ID0137	Prediction of Serine Phosphorylation Sites Mapping on *Schizosaccharomyces Pombe* with the Random Forest Classifier Samme Amena Tasmia, Md. Kaderi Kibria, Khanis Farhana Tuly, Md. Ariful Islam, Mst Shamima Khatun, Md. Nurul Haque Mollah*	
ID0142	Subtractive Genomics Analysis for Identification of Type-2 Diabetes Causing Bacterial Genes that are Associated with Tuberculosis, and Repurposing Common Drugs Md. Kaderi Kibria, Jannatul Nayem Fariha, Most. Nusrat Jahan Resma, Mifta Nurejannath, Jannatun Ferdousi, Md. Nurul Haque Mollah*	
ID0145	Transcriptomics Analysis to disclose Common Drugs for Type-2 Diabetes and Colorectal Cancer Reaz Ahmmed, Md. Sanoar Hossain, Arnob Sarker, Alvira Ajade, Sabkat Mahmud, Md Taohid Hasan, Mohammad Amirul Islam, Md. Nurul Haque Mollah*	
ID0148	Computational discovery of non-Hodgkin lymphomas causing molecular signatures highlighting their pathogenic process Sadia Sultana, Md. Mahadi Hassan Murad, Md. Bayazid Hossain, Alvira Ajadee, Sabkat Mahmud, Md. Al Noman, Md. Foysal Ahmed, Md. Feroj Ahmed, Md. Jahid Hasan Imran, Dewan Mumdood Ahmed, Mst Farhana Afrin , Mst. Tahmina Akter, Md. Nurul Haque Mollah*	
ID0149	Discovery of shared pathogenetic processes between hepatocellular carcinoma (HCC) and hepatitis-B virus (HBV) Md. Mahadi Hassan Murad, Md. Bayazid Hossain, Sabkat Mahmud, Alvira Ajadee, Md. Al Noman, Md. Foysal Ahmed, Md. Jahid Hasan Imran, Dewan Mumdood Ahmed, Md. Feroj Ahmed, Sadia Sultana, Mst. Tahmina Akter, Md. Nurul Haque Mollah*	
ID0153	Genetic Association Between Type 2 Diabetes Mellitus (T2DM) and Obesity, and Repurposing Common Drugs Md. Sanoar Hossain, Reaz Ahmmed, Sabkat Mahmud, Alvira Ajadee, Md. Ahad Ali, Arnob Sarkar, Md. Al Amin Pappu, Md. Nurul Haque Mollah*	

Contributed Session-XVI: Statistical Modeling, Inference and Simulation - I
Session Chair: Prof. Dr. Dulal Chandra Roy, Department of Statistics, RU
Time: 16:15-17:30   **Room: 337**

Paper ID	Title and Author	Page
ID0094	Unit-Level Covariate Adjustment in Causal Inference Using Weighting Kawsar Ahmed*	
ID0115	Exploring the Self-Employment Intention among Public University Students in Northern Bangladesh Md. Fahim, Md.Maeen Molla, Md. Tahidur Rahman, Mst. Papia Sultana, Dulal Chandra Roy*	
ID0161	Applications of Model-Based Clustering and K-means Clustering in Analyzing Failure Data Md. Mahfuz Uddin*, Samiul Islam, Md. A. Salam, Tamanna Rahman Shraboni, Tofayel Ahmed, Md. Rezaul Karim	
ID0174	Impact of Government Stipend Program to Enhance Secondary Education: A Case Study Hasibul Hassan*, Parth Kumar Saha, Zubair Ahmed Shimon, Md. Mesbahul Alam, Md. Abdul Khalek	
ID0175	Application of the Bayesian Accelerated Failure Time Models to Evaluate the Impact of Expatriate Remittances on School Dropout in Bangladesh Md. Sadakin Islam, Md Zakir Hossain*	
ID0209	Win Ratio Estimators for Prioritized Composite Outcome from Observational Study MD. Muhitul Alam*, Mahbub A.H.M. Latif, M. Iftakhar Alam, Abdus S Wahed	
ID0223	Motor Fitness Determinants of Performance Potentials of the Bangladeshi Adolescent Male Runner Athletes A.H.M. Rakibul Mawla, Saima Akter, Md. Ayub Ali*	

Contributed Session-XVII: Demography – II
Session Chair: Prof. Dr. JAM Shoquilur Rahman, Department of Population Science & HRD, RU
Time: 16:15-17:30   **Room: 338**

Paper ID	Title and Author	Page
ID0203	Analyzing the determinants of women's first birth interval in Bangladesh: an application of log- normal accelerated failure time model Tasmiah Tamanna, Samiul Islam, Gowranga kumar Paul*	
ID0210	Women empowerment and ideal number of children among young adult women in Bangladesh: a nationally representative cross-sectional study Md. Ashik Ulla Ashik, Md. Mosfequr Rahman*, Aree Jampaklay	
ID0260	Hearing impairment and its associated risk factors among elderly of North-eastern Bangladesh: A cross-sectional study Shuvojit Kumar Kundu, Sadhan Kumar Das, Tahazid Tamannur, Zaki Farzana, Piue Dey, Rumpa Kundu, Foijun Nahar, Nadia Nowshin, Tasnim Haque Binty, Shafiul Azam Shakil, Mohammad Meshbahur Rahman*	
ID0276	Examining the Correlations among Social Media Engagement, Mental Health, and Academic Procrastination in Bangladeshi University Undergraduates Intisar Bin Naim, Ashifa Khatun Konika, Ahammad Hossain, Md. Kamruzzaman, Md. Ayub Ali*	
ID0307	Factors associated with life satisfaction among reproductive age women in south Asian countries: an application of a multinomial logistic regression model Faria Sharmin*, Noor Jahan Akter	
ID0308	Demographic, socioeconomic and regional disparities in the coverage of water, sanitation and hygiene facilities in four south Asian countries Md. Hasibul Islam Jitu*, Mohammad Shahed Masud	

Paper ID	Title and Author	Page
ID0319	Social challenges among secondary school students in Rajshahi district, Bangladesh: Prevalence, Socio-Demographic Influences, and Help-Seeking Behaviors Farhana Hasan*, Abu Sayed Md. Al Mamun, Md. Kamruzzaman, Md. Golam Hossain, Md. Sabiruzzaman, Mst. Fatema Akter	

Contributed Session-XVIII: Miscellaneous - I
Session Chair: Prof. Dr. Md. Ashraful Islam Khan, Department of Population Science & HRD, RU
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ID0047	Ensuring Quality Education of Universities in Sylhet, Bangladesh: Faculty Resources and Infrastructure Perspective Muhammad Muzammil*, Md. Azizul Baten	
ID0059	Understanding the experiences of male and female university students in Bangladesh who have experienced family violence and their differing emotional responses. Alomgir Hosen, Md. Murad Hossain*, Md. Zahid Hasan, Fatema Khairunnasa, Jannatul Fardous Jinia, Md.Hamidul Islam	
ID0098	Emotional Intelligence as a Catalyst for Digital Entrepreneurship Intentions: Insights from Business Students Md. Solaiman Chowdhury*, Md. Mehedi Hasan, Md. Bashir Uddin, Iqbal Hossain Moral, Nilufa A	
ID0162	Conceptualisation and Validation of 'Intellectual Capital' using PLS-SEM: The Context of Pakistan Farooq Yahya Butt, Parves Sultan*, Kazi Saidul Islam, Mahmud Hossain	
ID0182	Prevalence and Determinants of Physical Punishment towards Children in Bangladesh: Evidence from the Nationally Representative Cross-Sectional Survey Shela Parvin, Md. Nazrul Islam Mondal*, Moynul Haque, Md. EakubAli, Md. Shariful Islam	

Invited Session-III: Statistical Modeling and 4IR
Session Chair: Prof. Dr. Md. Rezaul Karim, Department of Statistics, RU
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Paper ID	Title and Author	Page
ID0024	Assessing Family Specific Health Performance in Bangladesh Robiul Islam Akash, Mohammad Anamul Haque, Mohammad Ohid Ullah*	
ID0069	Lifetime analysis under alternating renewal process with survey data on partially observed current age Moudud Alam*	
ID0079	The Impact of Information and Communication Technology on Secondary Schools' Efficiency in Sylhet, Bangladesh Md. Azizul Baten*, Muhammad Muzammil	
ID0112	Determinants of Timing of Receiving the First ANC Service in Bangladesh Md Zakir Hossain, Sumaiya Tasnim*	
ID0154	Assessing Childhood Stunting Vulnerabilities in Sylhet Division: A Comparative Analysis of Direct and Fay-Herriot Model Approaches Md. Jamal Uddin*, Md. Rashed Babu, Mossamet Kamrun Nesa, Md. Fakrul Islam, Md. Iqbal Hossain	
ID0158	Strategies for Controlling Fish Harvesting: A Deterministic and Stochastic Approach M.A. Shah*, Md. Mowazzem Hossain, Abu Sayed Md. Al Mamun	
ID0265	Necessity of GVAR model in Time Series Analysis Md. Ayub Ali*	
ID0327	Examining the Causal Relationship Between Household Wealth Status and Cesarean Section Delivery: The Moderating Role of Maternal Education Using Causal Mediation Analysis A. H. M. Mahbub Latif*, Tarikul Islam, and Wasimul Bari	

Contributed Session-XIX: Agriculture, Environmental Statistics and Time Series Modeling - III
Session Chair: Prof. Dr. Md. Monimul Huq, Department of Statistics, RU
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Paper ID	Title and Author	Page
ID0238	A Comparative Study of GARCH and Deep Learning Models in Predicting Bitcoin Daily Returns Md Ziaul Hassan*, Md Amir Hamja	
ID0249	Bayesian Structural Time Series Forecasting of Economic Indicators in South Asian Countries: A Focus on Bangladesh Md. Sifat Hossain*, Provash Kumar Karmokar	
ID0277	Forecasting Yield of Different Rice Varieties in Bangladesh using Machine Learning Abdullah Tamim, Md. Rashid Shahriar Chowdhury, Anik Das, Md. Wadud Jahan, Ashifa Khatun Konika, Ahammad Hossain*, Md. Mizanur Rahman, A.H.M. Rahmatullah Imon	
ID0284	A Data-Driven Framework for Climate Vulnerability Assessment in Bangladesh: Integrating Feature Selection, Machine Learning, and Spatial Analysis Mira Khatun*, Golam Sabbir Sattar, Provash Kumar Karmokar, Md. Rezaul Karim	
ID0287	Climate-Resilient Rice Yield Prediction and Crop Recommendations in Bangladesh Using Deep Learning Models Marufa Yeasmin*, Most Mira Khatun	

Paper ID	Title and Author	
ID0316	Assessment of Total Monthly Precipitation Data of Different Season in Northern Bangladesh using Innovative Trend Analysis and ARIMA Approach J. M. Adeeb Salman Chowdhury*, Azhar Uddin, Awjad Abid Mesbah, Md. Abdul Khalek, Md. Kamruzzaman, Md. Abdullah Al Mamun	
ID0317	Bangladesh's Climate Diplomacy in Action: A Journey from Weak Power to Climate Leader Md. Toufik Ahmed, Md. Mesbahul Alam, Md. Abdul Khalek, Chowdhury Sarwar Jahan, Md. Kamruzzaman*	
ID0318	Mixed Approach to Detect Share Price Volatility: An Empirical Analysis of DSE Md. Habibur Rahman*, A.H.M. Ziaul Haq	
ID0322	Technical Efficiencies and cross-boundary interdependencies among farms: Insights from Rajshahi Division, Bangladesh Rakib Pervej*, Provash Kumar Karmokar	

Contributed Session-XX: Health Statistics - IV
Session Chair: Prof. Dr. Sohel Rana, Department of Mathematical & Physical Sciences, East West University, Dhaka
Time: 9:00-10:40   **Room: 348**

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ID0230	Minimum Dietary Diversity and Associated Factors among Children Aged 6-23 Months in Bangladesh: Evidence from Bangladesh Demographic and Health Survey-2022 Mahbub Hasan Shanto, Md. Binyamin*	
ID0233	Examining the Prevalence and Determinants of Treatment-Seeking for ARI, Fever, and Diarrhea in Children Under Five in Bangladesh: A Pooled Analysis of Data from the 2011-2022 Demographic and Health Surveys Md. Sabbir Ahmed Mayen, Abdul Mazed, Mohammad Alamgir Chowdhury, Shorful Alam, Muhammad Abdul Baker Chowdhury, Md. Jamal Uddin*	
ID0250	Anemia and malnutrition of women in South Asian countries: A cross-sectional study Nazmul Haque, Samiul Islam, Abu Sayed Md. Al Mamun*	
ID0257	Affecting Factors of Knowledge & Health Consciousness about HIV/AIDS: An Application of Hierarchical Logistic Regression Behzad Noor*, JAM Shoquilur Rahman	
ID0262	Financial hardship for seeking healthcare in Bangladesh: An assessment in rural Kushtia district Md. Akib Jabed*, Md. Sabiruzzaman	
ID0309	Prevalence and Determinants of Violent Disciplinary Practices for Children in Bangladesh: Evidence from a National Representative Survey Raisa Rashid Mim*, Mohammad Shahed Masud	
ID0311	Progressive Status and Determinants of Antenatal Care Visits Frequency in Bangladesh: A Comparative Study Based on BDHS Data Biplab Biswas, Farzana Yesmin, Nishith Kumar, Md. Aminul Hoque*	

Contributed Session-XXI: Statistical Modeling, Inference and Simulation - II
Session Chair: Prof. Dr. Md. Monsur Rahman, Department of Statistics, RU
Time: 9:00-10:40   **Room: 334**

Paper ID	Title and Author	Page
ID0245	Probability models for identifying best among the non-homogeneous novice raters in medical diagnosis Papia Sultana*, Sinan Mustanjid Haque	
ID0251	Quartic Transmuted Burr-XII Distribution with Estimation and Applications Deluar J. Moloy*, M. A. Ali, Farouq Mohammad A. Alam	

Paper ID	Title and Author	Page
ID0259	Determinant of Job Satisfaction among the Employees of National Corporation: An Application of Hierarchal Logistic Regression Model Behzad Noor*, JAM Shoquilur Rahman	
ID0266	Recent Advancement of Growth Model in Physical Health and Human Growth Md. Ayub Ali*	
ID0271	Enhanced Anomaly Detection Using a Nonparametric Frontier-Based Classification Model Most. Suma Khatun, Md. Kaderi Kibria, M. E. A. Khondaker*	
ID0289	Decoding Insights in Pima Indian Diabetes Data: A Novel Machine Learning Approach for Predictive Analysis and Risk Identification Mira Khatun, Karabi Datta*	
ID0310	Evaluating the Impact of Multicollinearity in Logistic and Beta Regression Models: A Case for Revised VIF Thresholds in Non-Linear Regression Nadia Afrin*, Tamanna Howlader	

Contributed Session-XXII: Machine Learning - II
Session Chair: Prof. Dr. M. Shafiqur Rahman, Institute of Statistical Research and Training, DU
Time: 10:50-12:30 **Room: 334**

Paper ID	Title and Author	Page
ID0215	Prediction of myopia among undergraduate students using ensemble machine learning techniques Tajin Ahmed Jisa, Isteaq Kabir Sifat, Jyoti Shree Roy, Md. Earfan Ali Khondaker, Md. Kaderi Kibria*	
ID0217	Application of Machine Learning Algorithms for Predicting Skilled Delivery Service Use in Bangladesh Md. Kamrul Islam*, Sohel Rana, Abu Sayed Md. Al Mamun, Md. Sabiruzzaman, Md. Golam Hossain	
ID0219	Improving Skin Lesion Classification with Deep Learning Techniques Gourab Sarker*, Samiul Islam, Md. Mesbahul Alam	
ID0242	Identification of Predisposing Risk Factors of Hepatitis C Virus (HCV) Using Statistical Approaches and Its Grading Classification with Machine Learning Sanjida Akther, Sabba Ruhi, Md. Shamim Reza*	
ID0247	Automated Sugarcane Disease Detection from Leaf Images with Advanced Deep Learning Technique: A Study at the BSRI Data Jannatul Mauya, Sabba Ruhi, Md. Shamim Reza*	
ID0254	Uncovering Complex Pattern to Accurately Diagnosis of Heart Disease: Feature Interaction- Driven Insights Using ML Algorithm Ruhul Amin*, Md. Jamil Khan, Md. Shamim Reza, Md. Monirruzzaman	
ID0274	The Role of Machine Learning Algorithms for Analyzing the Factors Associated with Under Five Mortality in the Perspective of SDG-3 in Bangladesh Md. A. Salam*, Md. Merajul Islam, Md. Abdul Khalek, Md. Rezaul Karim	
ID0288	Analyzing Public perception And Exploring Potential Alternatives to Plastic Usage. A Machine Learning Approach in Pabna City, Bangladesh Shetu Sarkar*, Most Mira Khatun	

Contributed Session-XXIII: Genetics and Bioinformatics - IV
Session Chair: Prof. Dr. A. H. M. Mahbub Latif, Institute of Statistical Research and Training, DU
Time: 10:50-12:30 **Room: 337**

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ID0156	Development of web-tool for Prediction of T-Phosphorylation sites mapping on Schizosaccharomyces Pombe by fusing multiple encoding schemes Md. Saiful Islam, Md. Asaduzzaman, Sabkat Mahmud, Alvira Ajadee, Md. Nurul Haque Mollah*	

Paper ID	Title and Author	
ID0187	Cell-type specific gene expression changes in Parkinson's disease revealed by analyzing single- nuclei RNA-seq profiles Md. Al Amin Pappu, Md. Alamin, Most. Humaira Sultana, Arnob Sarkar, Sabkat Mahmud, Alvira Ajadee, Md. Nurul Haque Mollah*	
ID0290	Identification of key molecular signatures and bioactive compounds modulating screw flag leaf development in rice Md. Bayazid Hossen, Most. Humaira Sultana, Md. Al Amin Pappu, Md. Nurul Haque Mollah, Md. Alamin*	
ID0295	Single-Cell RNA-Seq profile analysis to disclose dengue fever causing host genes and their pathogenetic mechanisms Md. Al Noman, Md. Foysal Ahmed, Md. Al Amin Pappu, Md. Hadiul Kabir, Md. Nurul Haque Mollah*	
ID0298	Conditional copula model for multi-trait analysis of genome-wide association studies Md. Masud Rana*, Md. Nurul Haque Mollah	
ID0300	Discovery of shared key-genes associated with SARS-COV-2 and dengue-virus co-infections for diagnosis and therapies Tasfia Noor, Md. Fahim Faysal, Nahin Ul Sadad, Md. Nazrul Islam Mondal*	
ID0304	Liver Cancer-related Biomarker Identification using scRNA-seq Data: A Comprehensive Bioinformatics Analysis Biplab Biswas, Md. Aminul Hoque*	

Contributed Session-XXIV: Miscellaneous - II
Session Chair: Prof. Dr. Saroje Kumar Sarkar, Department of Statistics, RU
Time: 10:50-12:30   **Room: 338**

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ID0243	Prevalence of Undiagnosed Hypertension in Bangladesh: A systematic review and meta- analysis Nourin Sultana, Zeba Afia, Md. Kaderi Kibria*	
ID0275	Analyzing Sales Patterns and Customer Preferences: A Market Basket Analysis on Frequent Items Golam Ahnaf Zadid, Mst Asha Khatun, Tonmoy Sarkar, Ashifa Khatun Konika, Ahammad Hossain*, Md. Mizanur Rahman, A.H.M. Rahmatullah Imon	
ID0285	Prevalence and determinants of internet addiction among young adolescence: A survey in Rajshahi city Md. Mehedi Hasan, Md. Kamrul Islam, Md. Sabiruzzaman*, Farhana Hasan, Abu Sayed Md. Al Mamun, Md. Golam Hossain	
ID0313	Determinants of Currently Attending School among Street Children of Dhaka City in Bangladesh Md. Shahiduzzaman*, M. Korban Ali, Md. Nurul Islam, Md. Rafiqul Islam	
ID0315	A composite index for exploring socioeconomic and geographical variations in early child development in Bangladesh Nahian Nujhat*, M. Shafiqur Rahman	

Contributed Session-XXV: Image Processing and AI - II
Session Chair: Prof. Dr. Md. Nurul Haque Mollah, Department of Statistics, RU
Time: 10:50-12:30   **Room: 348**

Paper ID	Title and Author	Page
ID0207	Defending Digital Wallets: A Multi-Method Approach to Credit Card Fraud Md.Sojib Hossain, Ripon Mahmud Akash, Md. Mostafizur Rahman*, M. Sayedur Rahman	

ID0220	Optimizing Food Cart Revenue Prediction Using Machine Learning and Explainable AI Techniques Jannatun Ferdousi*, Md Amir Hamja, Md Ziaul Hassan	
ID0226	Enhancing Cybersecurity in the Fourth Industrial Revolution: A Machine Learning Approach in Big Data Analytics for Analyzing and Mitigating Threats Samiul Islam*, Gourab Sarker, Md. A. Salam, Md. Mahfuz Uddin, Tamanna Rahman Shraboni, M. A. Ali, Md. Rezaul Karim	
ID0270	Bridging AI and Education: Perception and Practices among University Students in Modern Learning Environment Shamim Ahmed*, MD. Morshed Khandokar Joy, Redoy Kumar Karmokar, Hamim Ahammed Shovon, Ishrat Jahan Esha	
ID0324	Effect of using AI on Academic Performance among Students of the University of Rajshahi Tonmoy Shil*, Provash Kumar Karmokar, Saroje Kumar Sarkar	

12:30 - 13:10	Keynote Session – IV		Room: 337
	Title: Journey of Statistics from Computer Science to Data Science through Fourth Industrial Revolution	P. *	
	Speaker: Prof. Aditya Bagchi, PhD Professor Emeritus, Ramakrishna Mission Vivekananda University, India		
	Session Chair: Prof. Dr. M. Sayedur Rahman Department of Statistics, RU		
13:10 – 15:00	Poster Evaluation and Lunch Break		Department of Statistics
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ID0029	Impact of Social Capital on the Survival and Economic Development of Left-Behind Families of Migrant Workers: A Study on Northern Bangladesh Md. Rostom Ali[*], Md. Fakrul Islam, Md Akhtar Hossain Mazumder, Md. Rahidul Islam, Md Abdul Jalil	
ID0031	Identification of Reliable Cell Type Prediction Model at the Single Cell Level using Supervised Machine Learning Algorithm Shah Tania Akter Sujana, Md. Shahjaman, Atul Chandra Singha[*]	
ID0032	University Students' Political Trust, Satisfaction and Policy Expectations: A Comparative Study of the Current and Previous Government in Bangladesh Ashraful Islam Emon, Tanvir Rana, Md. Jannat Biswas, Rayhan Ivan Rimon, Md. Murad Hossain[*]	
ID0035	Classification of Cell Types and Cell Type Specific Gene Identification for Cancer Disease Related Single Cell RNA Sequence Data Shah Tania Akter Sujana, Atul Chandra Singha[*]	
ID0037	Breast Cancer Related Biomarker Identification using Single Cell Transcriptomic Data Atul Chandra Singha[*]	
ID0039	Identification of Cell Type Annotation Biomarkers in Single cell Transcriptomic Data Jannatul Ferdousi Nayma, Atul Chandra Singha[*]	
ID0040	Exploring Differentially Expressed Genes for Single-Cell RNA Sequencing Data: A Comparative Approach Atul Chandra Singha[*]	
ID0041	The Perception of University Students towards the Recent Fire Accident in Dhaka City, Bangladesh Md Abdullah Al Rahat, Md. Murad Hossain[*], Md. Zahid Hasan, Fahim Ibn Habib[1], Sakil Khan, Md. Lokman Ali	
ID0042	Unveiling the Determinants of Patient Satisfaction: A Machine Learning Perspective Md. Mahafuzur Rahman[*], Md. Mushaddiqul Islam Amin	
ID0048	Genome-wide Identification and Characterization of DCL, AGO and RDR Gene Families and their Associated Functional Regulatory Elements Analyses in Potato Md. Nahid Hasan Shuvo, Md. Abu Musa, Fee Faysal Ahmed[*]	
ID0049	Knowledge and Awareness of Cervical Cancer and Perceptions of Vaccination among Female Students at BSMRSTU Jannatul Fardos Jinia, Mohammad Kamal Hossain, Md. Murad Hossain[*], Vabesh Golder	
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