PROGRAM BOOKLET

8th International Conference
on
The Role of Statistics 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	Shaheed Tajuddin Ahmad (Senate) Bhaban
12:40-13:10	Plenary Session – I	Shaheed Tajuddin Ahmad (Senate) Bhaban
13:10-14:30	Lunch Break	Infront of Sir Jogodis Chandra Bose Academic Building
14:30-16:00	Special Invited Session - I: Statistical Modeling and Applications; Courtesy: Bangladesh Statistical Association (BSA)	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: Health Informatics	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	Infront of Sir Jogodis Chandra Bose Academic Building

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	Infront of Sir Jogodis Chandra Bose Academic Building
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	Dept. of Statistics and Infront of Sir Jogodis Chandra Bose Academic Building
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. 01 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, & 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 P. 01 the 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, & 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* P. 02 in 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, & 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. 04 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**	Infront of Sir Jogodis Chandra Bose Academic Building

Special Invited Session - I: Statistical Modeling and Applications; Courtesy: Bangladesh Statistical Association (BSA)
Session Chair: Prof. Dr. Syed Shahadat Hossain, Institute of Statistical Research and Training, DU
Time: 14:30-16:00   **Room: 337**

Paper ID	Title and Author	Page
ID0036	Impacts of Industrial Automation Utilization on the Labor Market in Bangladesh **Mohammad Mohidul Islam**	09
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**[*]	21
ID0117	Sensitivity Analysis with Matched Pairs from Observational Studies **Priom Saha**[*]**, Md. Abdul Basit, A. H. M. Mahbub Latif**	32
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**[*]**, Nabil Ahmed Uthso**	75
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**	76
ID0272	A Quasi-likelihood Approach for Correlated Binary Outcomes **Jahida Gulshan**[*]**, Azmeri Khan and M Ataharul Islam**	84
ID0325	The Impact of Unusual Season Changes on Nutrition in Bangladesh **Syed Shahadat Hossain**[*]**, Jahida Gulshan, Sheikh Mohammad Sayem, Md Bazlur Rashid**	100
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**	101

Contributed Session-I: Image Processing and AI - I
Session Chair: Prof. Dr. Md. Zakir Hossain, 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**	19
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**	43
ID0159	Multi-Armed Bandit Algorithm: An Efficient Method for Best Molecular Property Prediction **Md. Menhazul Abedin*, Md. Maniruzzaman**	48
ID0171	Optimizing Hypertension Prediction Using Ensemble Learning Approaches **Isteaq Kabir Sifat, Tajin Ahmed Jisa, Mifta Nurejannath, Md. Kaderi Kibria***	53
ID0190	ChatGPT in Education: Empowering Students or Challenging Classical Learning? **Hanjala Bin Rostum*, Ms Zannatul Mawa Shin**	59

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**

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ID0030	Predicting Climate Vulnerability of Wetland Zones in Bangladesh Using Machine Learning Techniques **Md Azizul Baten*, Nazmul Haque**	07
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***	10
ID0046	Comparison Among SARIMA, ANN and Hybrid SARIMA-ANN Models for Rainfall Forecasting in Sylhet, Bangladesh **Panna Shil*, Md. Azizul Baten**	11
ID0061	Volatility Forecast using a Hybrid GARCH-ANN Approach: The Case of Dhaka Stock Exchange Market **Abdul Mazed, Md. Azizul Baten***	15
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**	18
ID0083	Generalized Vector Auto-Regression: A Theoretical Approach **Sharmin Sultana, Samiul Islam, and Md. Ayub Ali***	20
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**	24
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**	29
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**	34

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 ID	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**	05
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***	22

Paper ID	Title and Author	Page
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 Purna, Shishir Dhar, Md. Alamin***	26
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**	41
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**	43
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**	50

Contributed Session-IV: Genetics and Bioinformatics -I
Session Chair: Prof. Dr. Mohammad Ohid Ullah, Department of Statistics, SUST
Time: 16:15-17:30   **Room: 337**

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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***	06
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**	08
ID0043	GAPred-ac4C: A Hybrid Ensemble Model by Genetic Algorithm for Detecting N4-Acetylcytidine Sites in Human RNA **Md. Harun-Or-Roshid, Hiroyuki Kurata***	10
ID0051	Genomic Insights and Computational Discovery of Antimicrobial Resistance Genes and Therapeutic Candidates in Bordetella pertussis **Riday Hossain, Fee Faysal Ahmed***	12
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***	22
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***	23
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***	27

Contributed Session-V: Demography - I
Session Chair: Prof. Dr. Md. Nurul Islam, Department of Statistics, RU
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ID0055	Analyzing Fertility Determinants in Bangladesh: A Machine Learning Approach **Shayla Naznin*, Md Jamal Uddin, Ahmad Kabir**	13
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***	15
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**	27
ID0113	Neonatal Mortality in Bangladesh: Pattern and Determinants **Sumaiya Tasnim*, Md Zakir Hossain**	30
ID0136	Different Causes of Child Mortality in Bangladesh- A Survival Approach **Tanha Akter Tithy, Md. Atiqul Islam***	40
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**	51
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***	52
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**	55
ID0194	Impact of Vaccination Coverage on Life Expectancy: A Mixed-Effects Analysis with Country- Specific and Temporal Adjustments **Antora Das*, Md. Rezaul Karim**	60

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**

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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**	17
ID0086	On the Performance of New Control Chart for the Inverse Rayleigh Distribution **Md. Zahid Hassan, Yeasin Ali*, Limon Adhikari, Md. Murad Hossain**	21
ID0122	Mapping the Landscape of 4IR Technologies in Precision Agriculture: A Comprehensive Bibliometric Review **Md. Abdul Qayum*, Md. Abdur Rouf Sarkar, Md. Rezaul Karim**	34
ID0168	Governance and Employee Wellbeing in the Bangladeshi Readymade Garments (RMGs): The Role of Front-Line Managers **Tasmiha Tarafder*, Parves Sultan**	51

Paper ID	Title and Author	Page
ID0197	Quality of Laundry and Linen Services in a Tertiary Level Hospital: A Cross-sectional Study **Arifatun Nesa, <u>Sadhan Kumar Das</u>, Tahazid Tamannur, Zaki Farzana, Shuvojit Kumar Kundu, Piue Dey, Foijun Nahar, Nadia Nowshin, Tasnim Haque Binty, Shafiul Azam Shakil, Mohammad Meshbahur Rahman***	61

Contributed Session-VII: Health Statistics - I
Session Chair: Dr. Rashidul Alam Mahumud, The University of Sydney, Australia
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ID0017	Exposure-Influenced Mediator-Outcome Confounder in Causal Mediation Analysis: An Extended Methodological Framework **<u>Tarikul Islam</u>*, Mahbub A. H. M. Latif**	05
ID0027	Comparative Study on Caesarian and Normal Vaginal Delivery, Rajshahi Division, Bangladesh **<u>Md. Masud Rana</u>*, Md. Abdul Wadood, Md. Golam Hossain**	07
ID0038	Prevalence of Perceived Stress and its Determinants Among University Students in Bangladesh **Mohammad Kamal Hossain*, <u>Arpita Halder</u>**	09
ID0045	Investigating the Relationship Between Mental Health Disorders and Suicidal Ideation and Behavior among University Students in Bangladesh **<u>Ali Ashraf Sakil</u>, Md. Lingkur Rahman, Md. Murad Hossain*, Fatema Khairunnasa,Md. Zahid Hasan, Md. Tasnim Alam Shafin**	11
ID0057	The Prevalence of Loneliness and its Associated Risk Factors among University Students: A Cross-Sectional Study **Sajida Sultana Shammy, <u>Mohammed Taj Uddin</u>***	14
ID0062	Regional Variation of Child Malnutrition in Bangladesh **Emon Mitra, <u>Most. Sarmin Akter Rini</u>, Shahadat Hossain Mehedi, Md Atiqul Islam***	16
ID0100	Prevalence of Malnutrition of Under-Five Children and its Associated Factors in Selected South Asian Countries: A Comparative Study **<u>Md. Ashikuzzaman</u>*, Md. Shariful Islam, Farhana Hasan, Abu Sayed Md. Al Mamun, Md. Sabiruzzaman, Md. Golam Hossain**	25
ID0105	Prevalence and Associated Factors of Scabies among School Students in Kushtia District, Bangladesh: A Cross-Sectional Study **<u>Md. Mothashin</u>*, Abu Sayed Md. Al Mamun, Md. Golam Hossain**	28

Special Invited Session - II: Health Informatics
Session Chair: Prof. Dr. Md. Aminul Hoque, Department of Statistics, RU
Time: 18:00-19:30   **Room: 337**

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ID009	Pseudotime Reconstruction using Single Cell RNA-seq Data **Indranil Mukhopadhyay**	**4**
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	**16**
ID0163	Generative Artificial Intelligence (GenAI) in Student Assessments: Challenges, Opportunities, and Ethical Considerations in Higher Education Context **Parves Sultan***, Tasmiha Tarafder, Belal Chowdhury	**50**
ID0264	Robust eQTL Model Development for Single-Cell Sequencing Data **Most. Humaria Sultana, Md. Alamin***	**82**
ID0278	Statistical Significance Versus Clinical Significance: Do they Carry the same Meaning? **Md. Nurul Amin***	**87**

Contributed Session-VIII: Machine Learning - I
Session Chair: Prof. Dr. Md. Jamal Uddin, Department of Statistics, SUST
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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**	08
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***	18
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**	20
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**	33
ID0123	ARAFnNet: A Novel Approach to Attribute-Aware and Context-Driven Visual Captioning **Md Bipul Hossen***, **Md. Shajaman, Md. Siddikur Rahman, Md. Aminul Hoque**	35
ID0127	Automated Lung Cancer Detection and Classification Using a Deep Learning Model **Ahsan Habib, Md Sipon Miah***	36

Paper ID	Title and Author	Page
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**	38
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***	38

Contributed Session-IX: Genetics and Bioinformatics - II
Session Chair: Dr. Moudud Alam, School of Information and Engineering, Dalarna University, Sweden
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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***	32
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***	33
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***	35
ID0129	Identification of Potential circRNA Biomarker for Hepatocellular Carcinoma **Saiful Islam Khondakar, Md. Tofazzal Hossain***	37
ID0130	Identification of Potential LncRNA Biomarker for Gastric Cancer **Md. Tofazzal Hossain***	37
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***	39

Contributed Session-X: Health Statistics - II
Session Chair: Dr. Parves Sultan, Melbourne Institute of Technology, Australia
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ID0114	Undernutrition in Sylhet Division: An Overview of Underweight **Md. Rashed Babu, Mossamet Kamrun Nesa, Sumaiya Tasnim, Md. Iqbal Hossain, Md. Jamal Uddin***	31
ID0150	Spatial Analysis of Dengue Hospitalization in Bangladesh **Atiya Tarannum, Sumaiya Tasnim*, Kanis Fatama Ferdushi**	45
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**	47
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**	52
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***	53
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**	55
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**	57

Day 2: Friday, December 27, 2024

Time	Event	Venue
09:00 - 09:35	**Plenary Session - II** Title: Application of Statistical Techniques for Addressing National Issues P.03 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 P.03 in 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.04 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 & Director, Bangladesh Krishi Bank Prof. Dr. Md Zakir Hossain, Department of Statistics, SUST Prof. Dr. A.H.M. Mahbub Latif, Institute of Statistical Research and Training, DU	Eng. Fac. Conf. Room
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**	13
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, Md. Alamin***	23
ID0214	Advancements in Social Network Analysis through Graph Neural Networks **Amrina Ferdous, Shams Tabraze Uddin Ahmed, Md. Ayub Ali***	65
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**	69
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***	73

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**	59
ID0202	Food Insecurity and Child Undernutrition in Bangladesh: Evidence from BDHS 2022 **Md.Tarik Hasan, Jakiya Sultana, Mst. Dilara Pervin***	61
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**	62
ID0216	The Effect of Parental Education on Child Health and Development **Miftahul Zannat Tamanna, Md. Mahmudul Alam, Md. Monimul Huq***	66
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**	66
ID0225	Exploring the Impact of Cluster Effects on Predicting Child Malnutrition in Bangladesh **Mira Rani Debnath, Mst. Papia Sultana*, Dulal Chandra Roy**	69
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***	70

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**

Paper ID	Title and Author	Page
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**	36
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**	42
ID0152	Forecasting Maximum Temperature in Rajshahi using Machine Learning Approaches **Most. Shamole Akter, Md. Sifat Hossain, Md. Monimul Huq***	45
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**	56
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**	57
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**	58
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**	60
ID0213	Climate-Induced Water Scarcity: Impact on Farmers' Livelihoods **Shahena Munni*, Md. Ayub Ali, Md. Monimul Huq**	64
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**	77

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***	72

Paper ID	Title and Author	Page
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***	79
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, Mohammad Romel Bhuia***	81
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**	83
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**	99

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***	39
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***	40
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***	41
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***	42
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***	44

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***	44
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***	46

Contributed Session-XVI: Statistical Modeling, Inference and Simulation - I
Session Chair: Prof. Dr. Md. Monsur Rahman, 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***	24
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***	31
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**	49
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**	54
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***	54
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**	63
ID0223	Motor Fitness Determinants of Performance Potentials of the Bangladeshi Adolescent Male Runner Athletes **A.H.M. Rakibul Mawla, Saima Akter, Md. Ayub Ali***	68

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***	62

Paper ID	Title and Author	Page
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**	64
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***	80
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. Abdul Khalek, Md. Ayub Ali***	86
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**	93
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**	94
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**	98

Contributed Session-XVIII: Miscellaneous - I
Session Chair: Prof. Dr. Md. Ashraful Islam Khan, Department of Population Science & HRD, RU
Time: 16:15-17:30   **Room: 348**

Paper ID	Title and Author	Page
ID0047	Ensuring Quality Education of Universities in Sylhet, Bangladesh: Faculty Resources and Infrastructure Perspective **Muhammad Muzammil*, Md. Azizul Baten**	12
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**	14
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**	25
ID0162	Conceptualisation and Validation of 'Intellectual Capital' using PLS-SEM: The Context of Pakistan **Farooq Yahya Butt, Parves Sultan*, Kazi Saidul Islam, Mahmud Hossain**	49
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**	56

Day 3: Saturday, December 28, 2024

Invited Session-III: Statistical Modeling and 4IR
Session Chair: Prof. Dr. Md. Rezaul Karim, Department of Statistics, RU
Time: 9:00-10:40   **Room: 337**

Paper ID	Title and Author	Page
ID0024	Assessing Family Specific Health Performance in Bangladesh **Robiul Islam Akash, Mohammad Anamul Haque, Mohammad Ohid Ullah***	**06**
ID0069	Lifetime Analysis Under Alternating Renewal Process with Survey data on Partially Observed Current Age **Moudud Alam***	**17**
ID0079	The Impact of Information and Communication Technology on Secondary Schools' Efficiency in Sylhet, Bangladesh **Md. Azizul Baten*, Muhammad Muzammil**	**19**
ID0112	Determinants of Timing of Receiving the First ANC Service in Bangladesh **Md Zakir Hossain, Sumaiya Tasnim***	**30**
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**	**46**
ID0158	Strategies for Controlling Fish Harvesting: A Deterministic and Stochastic Approach **M.A. Shah*, Md. Mowazzem Hossain, Abu Sayed Md. Al Mamun**	48
ID0265	Necessity of GVAR model in Time Series Analysis **Md. Ayub Ali***	82
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**	101

Contributed Session-XIX: Agriculture, Environmental Statistics and Time Series Modeling - III
Session Chair: Prof. Dr. Md. Monimul Huq, Department of Statistics, RU
Time: 9:00-10:40   **Room: 338**

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**	73
ID0249	Bayesian Structural Time Series Forecasting of Economic Indicators in South Asian Countries: A Focus on Bangladesh **Md. Sifat Hossain*, Provash Kumar Karmokar**	77
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**	86

Paper ID	Title and Author	Page
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**	88
ID0287	Climate-Resilient Rice Yield Prediction and Crop Recommendations in Bangladesh Using Deep Learning Models **Marufa Yeasmin*, Most Mira Khatun**	89
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**	97
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***	97
ID0318	Mixed Approach to Detect Share Price Volatility: An Empirical Analysis of DSE **Md. Habibur Rahman*, A.H.M. Ziaul Haq**	98
ID0322	Technical Efficiencies and Cross-Boundary Interdependencies among Farms: Insights from Rajshahi Division, Bangladesh **Rakib Pervej*, Provash Kumar Karmokar**	99

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**

Paper ID	Title and Author	Page
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***	71
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***	72
ID0250	Anemia and Malnutrition of Women in South Asian Countries: A Cross-Sectional Study **Nazmul Haque, Samiul Islam, Abu Sayed Md. Al Mamun***	77
ID0257	Affecting Factors of Knowledge & Health Consciousness about HIV/AIDS: An Application of Hierarchical Logistic Regression **Behzad Noor*, JAM Shoquilur Rahman**	79
ID0262	Financial Hardship for Seeking Healthcare in Bangladesh: An Assessment in Rural Kushtia District **Md. Akib Jabed*, Md. Sabiruzzaman**	81

ID0309	Prevalence and Determinants of Violent Disciplinary Practices for Children in Bangladesh: Evidence from a National Representative Survey **Raisa Rashid Mim*, Mohammad Shahed Masud**	94
ID0311	Progressive Status and Determinants of Antenatal Care Visits Frequency in Bangladesh: A Comparative Study Based on BDHS Data **Biplab Biswas, <u>Farzana Yesmin</u>, Nishith Kumar, Md. Aminul Hoque***	95

Contributed Session-XXI: Statistical Modeling, Inference and Simulation - II
Session Chair: Prof. Dr. Dulal Chandra Roy, 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**	75
ID0251	Quartic Transmuted Burr-XII Distribution with Estimation and Applications **Deluar J. Moloy*, M. A. Ali, Farouq Mohammad A. Alam**	78
ID0259	Determinant of Job Satisfaction among the Employees of National Corporation: An Application of Hierarchal Logistic Regression Model **Behzad Noor*, JAM Shoquilur Rahman**	80
ID0266	Recent Advancement of Growth Model in Physical Health and Human Growth **Md. Ayub Ali***	82
ID0271	Enhanced Anomaly Detection Using a Nonparametric Frontier-Based Classification Model **Most. Suma Khatun, Md. Kaderi Kibria, M. E. A. Khondaker***	84
ID0279	Assessment of Depression, Anxiety, and Stress among Bangladeshi Adults on Technology Overuse **Sumaya Hannan Shova, Md Khalid Sakib, Md. Rifat Hasan, Ashifa Khatun Konika, Ahammad Hossain, Md. Kamruzzaman, Md. Abdul Khalek and Md. Ayub Ali**	87
ID0289	Decoding Insights in Pima Indian Diabetes Data: A Novel Machine Learning Approach for Predictive Analysis and Risk Identification **Mira Khatun, <u>Karabi Datta</u>***	90
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**	95

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
ID0102	RNA-Seq Data Analysis to Explore Therapeutic Targets and Agents for Thyroid Carcinoma **<u>Md. Masud Rana</u>, Khanis Farhana Tuly*, Md. Nurul Haque Mollah**	26

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***	65
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**	66
ID0219	Improving Skin Lesion Classification with Deep Learning Techniques **Gourab Sarker*, Samiul Islam, Md. Mesbahul Alam**	67
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***	74
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***	76
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**	78
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**	85
ID0288	Analyzing Public perception And Exploring Potential Alternatives to Plastic Usage. A Machine Learning Approach in Pabna City, Bangladesh **Shetu Sarkar*, Most Mira Khatun**	90

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**

Paper ID	Title and Author	Page
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***	47
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***	58
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***	91
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***	91

ID0298	Conditional Copula Model for Multi-Trait Analysis of Genome-Wide Association Studies **Md. Masud Rana*, Md. Nurul Haque Mollah**	92
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***	92
ID0304	Liver Cancer-related Biomarker Identification using scRNA-seq Data: A Comprehensive Bioinformatics Analysis **Biplab Biswas, Md. Aminul Hoque***	93

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

Paper ID	Title and Author	Page
ID0243	Prevalence of Undiagnosed Hypertension in Bangladesh: A systematic review and meta- analysis **Nourin Sultana, Zeba Afia, Md. Kaderi Kibria***	74
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**	85
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**	89
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**	96
ID0315	A Composite Index for Exploring Socioeconomic and Geographical Variations in Early Child Development in Bangladesh **Nahian Nujhat*, M. Shafiqur Rahman**	96

Contributed Session-XXV: Image Processing and AI - II
Session Chair: Prof. Dr. Md. Nurul Haque Mollah, Department of Statistics, RU
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