73rd ANNUAL CONFERENCE OF INDIAN SOCIETY OF AGRICULTURAL STATISTICS

Theme: Statistics and Machine Learning for Big Data Analytics

November 14-16, 2022

Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir, Srinagar

TENTATIVE PROGRAMME - INAUGURAL SESSION

14 November, 2022 (Monday)

9:00 – 10:00	**Registration**	
10:00 – 11:45	**Inaugural Function**	
11:50 – 12:05	**High-Tea**	
12:05 – 13:05	**Dr. Rajendra Prasad Memorial Lecture.** **Venue: Conference Hall, Vice Chancellors' Secretariat**	Chairperson: Vice Chancellor, SKUAST, Srinagar Speaker: Dr. G.P. Samanta, CSI Topic: Statistics, AI/ML and Big Data Analytics
13:05 – 14:00	**Lunch**	
14:00 – 15:00	**Dr. V.G. Panse Memorial Lecture** **Venue: Conference Hall, Vice Chancellors' Secretariat**	Chairperson: Dr. Padam Singh Speaker: Dr. R.C. Agrawal, DDG (Ag. Edn.), ICAR, New Delhi Topic: Paradigm Shift in Agricultural Education to meet Agriculture Revolution 4

TECHNICAL SESSIONS – I

15:00-16:30	**IP 01: Dr. Daroga Singh Centenary Celebration Session** **Venue: Conference Hall, Vice Chancellors' Secretariat** **Chairperson: Dr. P.S. Pandey, Vice Chancellor, DRPCAU, PUSA, Samastipur** **Convener: Dr. B.V.S. Sisodia** **Speakers:** 1. **Dr. Padam Singh (Offline)** Statistics for Sustainable Development 2. **Dr. Murari Singh (Online)** A Short Review on Bayesian Estimation of a Common Coefficient of Variation from Inverse Gaussian Distributions 3. **Dr. Pranesh Kumar (Online)** Neutrosophic Single Factor Experimental Designs and Neutrosophic Data Analysis
16:30-16:45	**Tea**
16:45 – 17:15	**IP 02: Dr. Lalmohan Bhar Memorial Session** **Venue: Conference Hall, Vice Chancellors' Secretariat** **Chairperson: Dr. RC Agrawal, DDG (Agricultural Education), ICAR, New Delhi** **Conveners: Dr. B.N. Mandal/ Dr. Ranjit Kumar Paul** **Speakers:** 1. **Dr. A. Dhandapani (Online)** Hadamard R–R package to generate Hadamard Matrices 2. **Dr. Ananta Sarkar (Offline)** Gender Disaggregated Data in Agriculture and Data Issues 3. **Dr. Anurup Majumder (Offline)** Outliers: A Review on Detection of Outliers in Field Experiments and Some Case Studies

17:15 – 18:45	**IP 03: Dr. Hukum Chandra Memorial Session**
	Venue: Conference Hall, Vice Chancellors' Secretariat
	Chairperson: Dr. Tauqueer Ahmad and Dr. S.A. Mir
	Conveners: Dr. Dalip Singh/Dr. Sanghamitra Pal
	
	Speakers:
	    1. **Dr. Girish Chandra (Online)**
	       Weighted Ranked Set Sampling for Skew Distributions
	
	    2. **Dr. Santanu Pramanik (Offline)**
	       Statistical validation of a large-scale web survey during the COVID-19 pandemic in India
	
	    3. **Dr. Kaustav Aditya (Offline)**
	       Food and Nutrition in Indo Gangetic Plain Region -A Disaggregate Level Analysis
	
	    4. **Dr. Saurav Guha**
	       Localised Estimates and Spatial Mapping of Income Inequality: Evidence from Labour Force Survey Data of India

18:45 – 20:30	**Cultural Programme**
20:30 – 22:00	**Dinner**

DAY - 2 : 15 NOVEMBER, 2022 (TUESDAY)	
09:30 – 11:00	**Dr. GR Seth Memorial Young Scientist Award Presentation** **Chairman: Dr RC Agrawal**
11:00-1130	**TEA**
CONCURRENT TECHNICAL SESSIONS	

11:30-13:00	**IP 04(A): Big Data Analytics, Machine Learning, Artificial Intelligence and their Applications in Agriculture**
	Venue: Conference Hall, Vice Chancellors' Secretariat
	Chairperson: Dr. Anil Rai
	Speakers:
	Dr. S Ravichandran
	     Data Science in Indian Agriculture - Scope, Status and the Road Ahead
	Dr. Alka Arora (Online)
	      Machine Learning based Approach for Measuring Senescence in Wheat Crop
	Dr. Mukesh Kumar (Offline)
	       Mobile Applications for Dissemination of Knowledge in Livestock Farming
	Dr. S.B. Lal (Online)
	Open-Source Big Data Databases

11:30-13:00	**IP 05: Online Agricultural Education and Extension** **Venue: Conference Hall, ARIS.** **Chairperson: Dr. Padam Singh/ Dean FoH, SKUAST-K** **Speakers:** **Dr. Sudeep (Offline)** Modernizing Agriculture Education through IT interventions- Steps Undertaken **Dr. Rajni Jain (Online)** Factors affecting ICT Usage in Agricultural Higher Education **Dr. Anshu Bharadwaj (Online)** Virtual Classroom and Agri-DIKSHA: Embracing the future of Digital Learning in Agriculture Higher Education **Dr. Shashi Dahiya (Online)** Online for Ranking of Green and Clean Agricultural University Campus
11:30-13:00	**IP 06(A): Statistical Modelling and Forecasting in Agriculture (01)** **Venue: Virtual cum Video conferencing room Div of plant pathology** **Chairperson: Dr. K.K. Tyagi** **Speakers:** **Dr. K.N. Singh (Offline)** Drought Prediction using Machine Learning Technique **Dr. Ramasubramanian V (Offline)** Development of classification tree enhanced by genetic algorithm for forecasting in agricultural ergonomics **Dr. Girish K Jha** AI-enabled Price Forecasting Model for Agricultural Commodities

11:30-13:00	**IP 07(A): Basic Research in Statistical Sciences** **Venue: GIS Lab, Division of Soil Science** **Chairperson: Dr. J. Jayasankar** **Speakers:** **Dr. Radha A Ashrit (Online)** Advances in agricultural knowledge and the use of innovative approaches among farmers in four different districts of Andhra Pradesh, India - A baseline and endline biotech intervention assessment conducted as part of the Biotech KISAN Mission **Dr. M.R. Verma (Offline)** Allocation Proportional to Strata Total and Exponential Phase Effect under Cost Constraints **Dr. Rajesh Kumar (Offline)** Efficiency of Statistical Design at Advance Level of Sugarcane Varietal Trials **Dr. Cini Varghese (Online)** 2-part Designs for Agricultural Research
12:30-13:30	**ISAS GB**
13:00-14:00	**LUNCH**
14:00-15:30	**IP 05 (B): Big Data Analytics, Machine Learning, Artificial Intelligence and their Applications in Agriculture** **Venue: Conference Hall, Vice Chancellors' Secretariat** **Chairperson: Dr. A.R. Rao** **Speakers:** **Dr. A.R. Rao (Offline)** Integration of Artificial Intelligence (AI) and –omics for Crop and Animal Improvement **Dr. Amrit Kaur Mahal (Online)** Role of Statistical Software in Data Analysis **Dr. Shakeel Ahmad Mir(Offline)** Artificial Intelligence –Importance and Application in Agriculture **Dr. K.K. Chaturvedi (Online)** Significance of Big Data's vs. in Digital Agriculture
14:00-15:30	**IP 06(B): Statistical Modelling and Forecasting in Agriculture** **Venue: Conference Hall, ARIS.** **Chairperson: Dr. S. Ravichandran and Dr. Radha A Ashrit** **Speakers** **Dr. J Jayasankar** Marine Fishery Resource Modeling- Trends, Travails and Talismanic tools and Takeaways **Dr. DK Panda** Spatio-temporal Assessment of Water Resources in India under Changing Climate: Application of Statistical Tools **Dr. Ranjit Kumar Paul (Offline)** Decomposition based Machine Learning Techniques for Forecasting Agricultural Price

14:00-15:30	**IP 07(B): Basic Research in Statistical Sciences /Statistical Inference and Multivariate Analysis** **Venue: Virtual Cum Video Conferencing Room, Division of Plant Pathology.** **Chairperson: Dr. Sanjeev Panwar** **Speakers:** **Dr. Sheela Misra (Online)** Emerging Need of Composite Indices of Evaluation with respect to HDI and SDG **Dr. BK Hooda (Online)** Genetic Algorithm Based Cluster Analysis **Dr. Shashi Bhushan (Offline)** On Some Improved Imputation Methods Under MCAR Approach **Dr. Showqat Maqbool (Offline)** Estimation of Finite Population Mean under Predictive Modeling Approach
15:30-16:00	**TEA**
16:00-17:30	**IP 08: Remote Sensing, UAV, IoT and GIS and their Applications in Crop Yield Estimation in Agriculture** **Venue: Conference Hall, Vice Chancellors' Secretariat** **Chairperson: Dr. B.V.S. Sisodia** **Speakers:** **Dr. Tauqueer Ahmad (Offline)** Crop Yield Estimation (TOPIC and Abstract Not Received) **Dr. B Sailaja (Online)** Smart Precision Models for Rice Yield Estimation **Dr. V. Bhushana Babu (Offline)** IoT Application for Analysis and Estimation of Agricultural Accidents Survey Data
16:00-17:30	**CP 01: Statistical Modelling** **Venue: Conference Hall, ARIS** Chairman: Dr. KN Singh **Achal Lama (Online)** Understanding the dynamic relationship between rainfall and temperature using multivariate time series models **Bishal Gurung (Offline)** An Improved Beta Regression Model for Forewarning Helicoverpa armigera Infestation **A Gorlapalli (Online)** Characterization and forecasting of Drought in Mahbubnagar, Telangana State **Kanchan Sinha (Online)** Deep Learning Techniques for Forecasting Onion Market Prices. **Santosha Rathod (Online)** An improved zero-inflated count time series models for prediction of rice yellow stem borer population

	Mrinmoy Ray (Online) Spatio Temporal Neural Network with Application to Space-time Rainfall Forecasting **Satish Kumar Yadav (Online)** Time Series Models Predicting Jassids and Thrips on Cotton at Akola of Maharashtra (India) **Rajeev Ranjan Kumar (Online)** Performance evaluation of deep learning approaches for meteorological drought forecasting **Himadri Shekhar Roy (Online)** Machine learning based approaches for modeling sub-divisional rainfall in India **Joshy C.G. (Online)** Modified Demerit Score Based Shrimp Quality Index (SQI) to Assess the Freshness of Shrimp and Shelf-Life Prediction using Statistical Models **Akhilesh Kumar Gupta (Online)** Weather based Modelling of Rice Yield using Statistical & Machine learning models **Nageena Nazir (Offline)** Application of Parametric and Nonparametric Regression in Area, Production and Productivity Trends in Walnut Fruit Crop of Kashmir Region. **Bhagyashree Dhekale (Offline)** Time Series Modelling and Forecasting of Area, Production and Productivity of Major Dry Fruit Crops of Kashmir **Bhagyashree Dhekale (Offline)** Markov Chain Analysis of export competeness of Indian Tea
16:00-17:30	**CP 02: Sample Surveys and Applications** **Venue: Virtual Cum Video Conferencing Room, Division of Plant Pathology.** **Chairman: Dr. MR Verma** **Immad A Shah (Offline)** Ameliorated Shewhart type Mean Control Chart Using Quartile Based Variant of the Ranked Set Sampling Scheme **Ankur Biswas (Offline)** Estimation of Finite Population Proportion from Geo-Referenced Survey Data **Bharati (Online)** Estimation of Energy Use for Onion Production in Karnataka State of India in the Purview of Sustainable Development Goal 7.0 **Deepak Singh (Online)** Development of Survey Weighted Composite Indices under Complex Surveys **Kaustav Aditya (Offline)** Multivariate Calibration Estimation using Nonlinear Constraints under Two Stage Sampling Design **Raju Kumar (Online)** Survey Weighted Propensity Score Method for Impact Assessment **Pradip Basak (Online)** Prediction of Urban Unemployment Rate in India using Grey Model **Reshma Gills (Online)** Vocational education and its employability perspectives: A learning ecosystem analysis of fisheries vocational courses in Kerala

	Vishal (Online) Large Scale Assessment Survey And Sampling Procedure For Selection Of Responses. **Shashi Bhushan (Offline)** On some improved imputation methods under mcar approach
	CP03: Inference and Multivariate/ Methods **Venue: GIS Lab, Division of Soil Science** **Chairman: Dr. Imran Khan** **Nidhi (Online)** Characterization of Variability of Soil Zinc and Copper using Geostatistical Approach (Muzaffarpur, Bihar) **M Iqbal Jeelani (Offline)** Neural Network Modeling of Height Diameter Relationships for Himalayan Pine Through Back Propagation Approach **Eldho Varghese (Online)** Identification of Probable Potential Fishing Zones: A Case Study on Commercially Important Marine Resources in the Southern Coast of India **Rekha (Online)** Growth Performance and Decomposition Analysis of Mungbean in Rajasthan **AD Kalola (Online)** Hectareage Prediction Models for Paddy Crop of Middle Gujarat **Manoj Kumar Goyal (Offline)** Use of Weather Variables for Predicting Whitefly Count of Cotton Crops through Generalized Linear Model Approach **Geeta Verma (Online)** Empirical Studies on yield distribution modeling of Kinnow crop
18:00-19:00	**ISAS GB**
20:00-	**Dinner**

16 November, 2022 (Wednesday) Day 3 *(Concurrent Sessions)*			
Hall-1 **Conference Hall,** **VC Secretariat**	**Hall-2** **Conference Hall,** **ARIS**	**Hall-3** Virtual Cum Video Conferencing Room, Division of Plant Pathology	**Hall-4** Remote Sensing and GIS Lab, Division of Soil Science
09:15-10:45			

09:15-10:45

Hall-1

CP 4: Design of Experiments Chairman: Dr SA Mir

Mohd. Harun (Online) Augmented Partial Four-way Crosses

V.B. Darji (Offline) Comparison of Uniformity Trial Data with Experimental Data for Plot Technique

Manoj Kumar (Offline) Application of Repeated Measure Analysis in Impact Assessment

M Hemavathi (Online) Effect of missing observation(s) on third-order response surface designs
Anurup Majumder (Offline) Construction of Patterson Type Balanced and Partially Balanced Cross over Designs.

Md Yeasin OptiSemble Forecasting: Optimization Based Ensemble Time series Forecasting Using MCS Algorithm and PCA based Error Index

Hall-2

CP 05: Statistical Genetics/Bioinformatics Chairman: Dr Tariq A Raja/ Dr. Imran Khan
DC Mishra (Offline) Next Generation Sequencing Data Analysis: Big Data Perspective

Neeraj Budhlakoti (Offline) Integrated Approach for Genomic Prediction to handle diverse Genetic Architecture

Sudhir Srivastava (Offline) Hybrid approach for imputing missing values in proteomics expression data

Samarendra Das (Online) Estimation of DIVA Rates using NSP-ELISA Test for FMD Virus Sero-Surveillance in India during the Year 2008-21

Sarika (Offline) Study on microbial diversity under varied agricultural field conditions of wheat crop

Mir Asif Iquebal (Offline) Whole Genome-based identification of non-coding RNAs in Black Pepper (Piper nigrum

Hall-3

CP06: Informatics Chairman: Dr. Sudeep
M.S. Farooqi (Online) Prediction of Biosynthetic Gene Clusters and Drug Discovery using Metagenomics

Sumanta Das (Online) Extreme Learning Machine for Big Data Analysis

Soumen Pal (Offline) Analytics Dashboard for Landscape Diagnostic Survey Data under Cereal Systems Initiative for South Asia

B Sailaja (Offline) Avishkar - An AI based Model App for Rice Pest Detection

Chandan K Deb (Offline) Machine Learning Based Mapping and its Acreage Calculation for Rice Crop Using Sentinel 2 in Cooch Behar District Of West Bengal, India

SN Islam (Online) Developing Mobile App for Identification of Weeds for Wheat Crop

Hall-4

SP01: Students' Papers Sessions Chairperson: Dr. Amrit Kumar Paul/Dr. Showkat Maqbool
Ashutosh Maurya (Online) Data Analysis for Indian Agricultural E-Governance Projects

Hemant Poonia (Offline) A hybrid approach using Genetic Algorithm with K-means in clustering of Indian Mustard genotypes

Radhika Gheriya (Online) Comparison of selection indices using equal weight, standard deviation and heritability weight methods in finger millet through R codes
Nehatai W Agashe (Online) Designs for Breeding Trials using Doubly Nested Partially Balanced Incomplete Block Designs

Pawan Kumar (Online) Study of various Multivariate techniques on

		Hemant Kumar (Online) Simultaneous Selection for Yield and Stability in Pigeon pea of North East Plain Zone of India	**Ashraful Haque (Online)** A Transformer-based Computer Vision Model for Recognition of Disease Severity Levels	Forestry: A case study of Wild Pomegranate (Punica granatum L)
		DJ Parmar (Online) Application of PCA and Factor Analysis for Selection of Cotton Genotypes using Biometrical Characters	**Madhu (Online)** Deep Learning-Based Classification Model for Bovine Disease Detection	**Rabsanjani Pramanik (Online)** A Comparative Study of Forecasting Models on Volatile Time Series Price Data
		Sandip Shil (Offline) Some potential statistical solicitations to unwrap the coconut (Cocos nucifera) microbiome amplicon sequences	**R. Gangai (Online)** Pre-processing techniques and Future of big data analytics	**Samir Barman (Online)** Bootstrap Prediction Intervals in Time Series for Neural Network Models
		Alok Shrivastava (Online) Genotype Environment Interaction through AMMI and GGE plot analysis for yield in diverse sorghum germplasm		**Sandip Garai (Online)** Spillover Effects of Covid-19 Induced Lockdown on Onion Prices in India
		Prakash Kumar (Online) RbpRnaDB: A database for RNA-binding proteins and their combinatorial interactions with miRNA to explain the miRNA biogenesis model		**M. Lokeshwari (Online)** Agenetic algorithm optimized deep neural network for wheat yield prediction using spectral indices
		Bulbul Ahmed (Online) Publically Available miRNAs classification using Machine Learning Models		
		Ritwika Das (Online) Identification of major biogeochemical cycle regulating genes in river Ganga and Yamuna through		

	metagenomic approaches			
10:45-11:00	**Tea**			
	Hall-1	**Hall-2**	**Hall-3**	**Hall-4**
11:00-13:00	**SP 02: Students' Papers Sessions Chairperson: Dr Ramasubramanian/ Dr. Imran Khan** **G Avinash (Online)** Transformer based neural network for agricultural price forecasting **Ronit Jaiswal (Online)** STL-LSTM Hybrid Model for Forecasting Seasonal Agricultural Price Series **Vinayaka (Online)** Nested Partially Balanced Treatment Incomplete Block Designs **Ankita Verma (Online)** Construction of third order rotatable designs using t design of unequal set sizes **Ashutosh Dalal (Online)** TORDs: An R Package for Generating Third Order Rotatable Designs **Pooja Bhimani (Offline)** Forecasting of Groundnut Yield using Meteorological Variables in Junagadh, Gujarat **Shilpa Sharma (Online)** A Glance to Bioinformatics: Tools to Mitigate	**SP 03: Students' Papers Sessions Chairperson: Dr. Girish Kumar Jha/ Dr. Nageena Nazir** **Ms. Preety Dagar (Online)** Processing 3D Point Clouds using Open3D library for High-Throughput Plant Phenotyping **Ms. Mhalo Ovung (Online)** A Regression Type Estimator In Stratified Adaptive Cluster Sampling With one and two Auxiliary Variables **Ms. YS Mamatha (Online)** In-silico characterization and molecular modeling of UDP Glucose Pyrophosphorylase in Rice **Baibhav Kumar (Online)** Genome wide identification and characterization of long non-coding RNAs and circular RNAs in Black pepper (Piper nigrum L.) and studying their role as competitive endogenous RNAs **Jutan Das (Online)** Machine learning in the estimation of CRISPR-Cas9 cleavage sites	**SP 04: Students' Papers Sessions Chairperson: Dr. D.K. Panda/ Dr Bhagyashree Dhekale** **Moumita Baishya (Online)** Resampling Method of Variance Estimation for Two Stage Sampling under Dual Frame Surveys **Hiral V Gundaniya (Online)** Weather Intervention based Sugarcane Yield Forecasting Models for Enhancing Farmers' Income **Soutrik Mukherjee (Online)** Identification of bacteriophage from the metagenomic data of Ganga and Yamuna Rivers **Tanwy Dasmandal (Online)** A two-stage GWAS analysis method using machine learning approaches for detection of non-marginal epistatic interactions in crops **Dipro Sinha (Online)** An Integrated Feature Selection Framework for Accurate Prediction of 6mA Sites in Crops **Judith Das (Online)** Stock Reduction Analysis for Assessment of Data-limited stocks: A Case	**SP 05: Students' Papers Sessions Chairperson: Dr. Ranjeet Kumar Paul/ Dr. Susheel Sarkar.** **Shavi Gupta (Online)** Discriminant Analysis and Artificial Neural Network for Seasonal Classification of Tomato Crop: A Comparative Study **Anushaka Garg (Offline)** Study on multiple components for forecasting in price volatility for Agricultural commodities **Vikash Pal (Offline)** Price Forecasting of Chilli (Green) - A Statistical Evaluation **CA Sowndarya (Offline)** Machine Learning and Deep Learning Techniques in E-Learning **Jit Sankar (Offline)** Construction of two level E(s2) optimal supersaturated design for prime number of runs from MOLS **Princy Saini (Online)** Genome wide

Covid-19 **Vinay kumar LN (Online)** Variance Components Estimation and BLUP in Breeding Programmes under P-rep block Designs **Afshan Tabassum (Online)** Performance Evaluation of Machine Learning Algorithms for Wheat Crop Production Utilizing Soil Parameters **Dagam Sindhu (Online)** Statistical Analysis of Rainfall Patterns in Chhatarpur District of Madhya Pradesh **Naveen (Online)** Forecasting of Pigeon pea yield in Bihar through Auto-Regressive Integrated Moving Average Model (ARIMA) **Kalyan Singh Paikra (Online)** Yield forecasting of Chickpea in Bilaspur district (Chhattisgarh) using nonlinear models **GH Harish Nayak (Offline)** Forecasting Rainfall using Deep Learning Models in Coastal Sub-Division of Karnataka **Ambreen Hamadani (Offline)** Development of an AI and IoT Decision Support System for	**Sayantani Karmakar (Online)** On t-packing designs **Ragini Kushwaha (Offline)** Quantum Chemical Calculation and In Silico Molecular Modelling Studies on Some Multi-Targeting Anti-Inflammatory Inhibitors **Mamata (Online)** An Analysis of Disparity among the Potato Producing Districts of West Bengal using Markov Chain Model **Lidia Khonglam (Online)** Simultaneous Models and Methods on Spatial Lattice: a review **V Sreepriya (Online)** Estimating Fisheries Reference Points using Time Series of Fish Catch and/or Fishing Effort: Application of Bayesian Approach **Abinayarajam D. (Ofline)** A Study of Phenotypic Variability on F2 Segregating Population (Oryza sativa L.) through Multivariate Techniques. **Worthing (Online)** Stratified Two-Stage Cluster Sampling Using PPS In The First Stage And RSS	Study of Marine Fishery in Andaman Nicobar Islands **Mohd. Younis Shah (Online)** Post Stratified Separate Ratio Exponential Estimator In Two Stage Sampling Design **Abha Goyal (Offline)** Evaluation of ANN (Artificial Neural Network) and Penalized Regression Model for Prediction of Sunflower Yield based on Weather Parameters in India. **Gohil (Online)** Price Integration of Domestic and International Castor Markets: A Vector Error Correction Mechanism (VECM) Approach **Kuldeep (Offline)** Farmers perception and management of agricultural risks in Jabalpur district of India. **Manoj Varma (Offline)** A new Weibull -X family of distributions. **Arshid Ahmad (Online)** Product Type Estimator On Average Values Of The Networks In Adaptive Cluster Sampling **Aqib Gul (Offline)** Regression Models for Tree Volume Prediction in Pinus wallichiana Stands of South Western	Identification of Polymorphic SSR markers in Allium species **Lal Dhari (Offline)** Deep Learning for Predicting Breeding Value Using High-throughput (HTP) Genotyping and Phenotyping. **Nitesh Kumar (Online)** Genome-wide identification of copy number variation in equines. **Parinita Das (Online)** Genome-wide identification and characterization of Puccinia striiformis-responsive lncRNAs in Triticum aestivum. **Nusrat Nabi (Offline)** Genetic evaluation of growth in Corriedale sheep using random regression model **Ishfaq Ahmad Bhat (Offline)** A New Variant Of Double Ranked Set Sampling Design For Estimating Population Mean **Arif Bashir (Offline)** Instability and Decomposition Analysis of Apple Crop in Kashmir. **Manjubala (Online)** Long short term

Sheep **Ambreen Hamadani (Offline)** Evaluation of Machine Learning Algorithms for the Prediction of Genetic Merit. **Rahul (Online)** Construction of Saturated D-optimal Designs for Mixture Experiments with a Non Normal Response using an Algorithmic Search **Manoj Kumar (Online)** Optimum Size and Shape of Plots Based on Data from a Uniformity Trial on Wheat (Triticumaestivum L.) in Haryana **Ruksana (Offline) Haplotype** identification among four candidate genes for the selection of dairy animals for better yield and quality of mill	In The Second Stage **Delvadiya (Online)** Evaluation of Statistical Models for Forecast Area, Production and Productivity of Groundnut in Gujarat. **Bhavana Y. P (Online)** Nonparametric approaches for study genotype × environment interaction of pearl millet genotypes in Gujarat **Aaditya Jhadav (Offline)** Statistical Evaluation of Agricultural Development Pattern at District Level in Jammu and Kashmir **Ronald (Online)** A New Exponential Ratio-Type Estimator of Population Mean Using Mean and Median with Two Auxiliary Variables under Double Sampling	Himalayan Region of Kashmir **Uzma Majeed (Offline)** Statistical Modelling of area and production of apple crop of Kashmir valley using nonlinear growth models. **Ume Kulsum (Online)** Detecting multicollinearity in high density apple data using R software **Nitin Varshney (Online)** Rescaling bootstrap variance estimation of predictive estimator under two phase sampling **Borsha Neog (Online)** Development of Hybrid Time Series Models for Forecasting Autumn Rice Production in Assam	memory for non linear long memory time series **Sunil Jhade (Online)** Study on forecasting of indian onion export price using machine learning techniques based hybrid models **Bijoy Chanda (Online)** Equivalent-Estimation Two Levels Split- Plot Designs **GayathriSandrala (Online)** Forecasting of Milk Prices in Karnataka and Telangana States using Multivariate Time Series Models **Praveen Kumar (Online)** Development of Time Varying Parameter-Exponential Smoothing (TVP-ES) model using hybrid machine learning technique

13:00-13:30	**PLENARY SESSION**
13:30	**LUNCH**
14:00	**LOCAL EXCURSION VISIT**

Abbreviations: IP: Invited Papers   CP: Contributory Papers   SP: Students Papers

Dr. Imran Khan
Organizing Secretary
73rd ISAS, SKUAST-K