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ANNUAL (WEB) CONFERENCE
on
Recent Advances in Statistical Theory and Applications
(RASTA 2022); (February 23-27, 2022)

Organized by
ICAR – National Academy of Agricultural Research Management
in conjunction with
24th Annual Conference of the Society of Statistics, Computer and Applications

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SUMMARY OF ANNUAL (WEB) CONFERENCE PROGRAMME

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TUESDAY, 22 February 2022

Pre-Conference Workshop on

Reader-Focused Writing in the Quantitative Sciences

IST — 6:00 PM to 8:30 PM;
USA — EST - 7:30 AM to 10:00 AM; or CST - 6:30 AM to 9:00 AM; or PST - 4:30 AM to 7:00 AM;
UK — 12:30 PM to 3:00 PM.

Registration Link

https://us02web.zoom.us/meeting/register/tZMrc-mvrToiH9eze5r-4ecFurZMBiB_eTPN

DAY – 1: WEDNESDAY, 23 February 2022

11:45 AM - 01:00 PM: Executive Council Meeting

05:15 PM - 06:30 PM: Inaugural Function

06:30 PM – 07:30 PM: Keynote Address
Chairperson: Ch. Srinivasa Rao
Speaker: Shyamal Peddada
Remarks by the Chairperson

07:30 PM – 08:30 PM: M.N. Das Memorial Lecture
Chairperson: Bikas K. Sinha
Speaker: John Stufken
Remarks by the Chairperson

DAY – 2: THURSDAY, 24 February 2022

09:30 AM – 10:35 AM: J.K. Ghosh Memorial Endowment Lecture
Chairperson: B.L.S. Prakasa Rao
Speaker: Minerva Mukhopadhyay
Discussion and Remarks by the Chairperson

10:40 AM – 01:00 PM: Concurrent Invited Talks Sessions

Time ↓	Invited Talk Session 1	Invited Talk Session 2	Invited Talk Session 3
Chairperson →	T R Padi	Madhuchhanda Bhattacharjee	Gurprit Grover
10:40 AM – 11:05 AM:	Aditi Sharan	Monika Bhattacharjee	Dharmendra Yadav
11:05 AM – 11:30 AM:	Dwijesh Mishra	Anjana S	Dibyojyoti Bhattacharjee
11:30 AM – 11:55 AM:	James KC	Dootika Vats	Dilip K Dey
11:55 AM – 12:20 PM:	Rajni Jain	V M Chacko	Geeta Kalucha
12:20 PM – 12:45 PM:	Swati Goswami	Vishal Deo	Jyoti Darbari
12:45 PM – 01:00 PM	Discussion and Remarks by the Chairperson		

01:00 PM – 02:15 PM BREAK

02:15 PM – 03:20 PM: Special Invited Talk Session
Chairperson: Ch. Srinivasa Rao
Speaker: R.C. Agrawal
Discussion and Remarks by the Chairperson

03:20PM – 05:15 PM: Concurrent Invited Talks Sessions

Time ↓	Invited Talk Session 4	Invited Talk Session 5
Chairperson →	K C James	Asha Gopalakrishnan
03:20 PM – 03:45 PM:	Alka Arora	Akanksha S Kashikar
03:45 PM – 04:10 PM:	Anshu Bharadwaj	Anuradha Rajkonwar Chetiya
04:10 PM – 04:35 PM:	Mukesh Kumar	Khimya Tinani
04:35 PM – 05:00 PM:	Shashi Dhaiya	Navin Chandra
05:00 PM – 05:15 PM:	Discussion and Remarks by the Chairperson	

Time ↓	Young Researchers Invited Talk/Contributory Paper Session 1
Chairperson →	**Manish Sharma**
03:20 PM – 03:35 PM:	Afshan Tabassum
03:35 PM – 03:50 PM:	Khalid Ul Islam Rather
03:50 PM – 04:05 PM:	Kumarapandian G
04:05 PM – 04:20 PM:	Palash Kumar Malo
04:20 PM – 04:35 PM:	S K B Sangeetha
04:35 PM – 04:50 PM:	Venkatesh Boya
04:50 PM – 05:05 PM:	Yashavanth, B S
05:05 PM – 05:20 PM:	Discussion and Remarks by the Chairperson

05:20 PM – 05:30 PM: BREAK

05:30 PM – 06:35 PM: Bikas Kumar Sinha Endowment Lecture
Chairperson: Bimal Kumar Sinha
Speaker: Simo Puntanen
Remarks by the Chairperson

06:35 PM – 06:45 PM: BREAK

06:45 PM – 07:55 PM: "V.K. Gupta Endowment Award for Achievements in Statistical Thinking and Practice" Lecture
Chairperson: J.N.K. Rao
Speaker: Arun Nigam
Discussion and Remarks by the Chairperson
Presentation of Award

Day 3: February 25, 2022: Friday

09:30 AM – 10:40 AM: MN Das Memorial Young Scientist Award Presentation

Convener: Rajender Parsad
Judges: A group of experts to evaluate the presentations
Presenter 1: S.M. Patil
Presenter 2: Savita Pareek

10:50 AM – 11:55 AM: B.K. Kale Endowment Lecture
Chairperson: Ashis Sengupta
Speaker: David D. Hanagal
Discussion and Remarks by the Chairperson

12:00 NOON – 01:00 PM: General Body Meeting

01:00 PM – 02:15 PM: BREAK

02:15 PM – 04:15 PM: Concurrent Invited Talks Sessions

Time ↓	Invited Talk Session 6	Invited Talk Session 7
Chairperson →	**David D Hanagal**	Ashish Das
02:15 PM – 02:40 PM:	Pritam Ranjan	Bhagwathi Devi
02:40 PM – 03:05 PM:	Cini Varghese	Praveena AS
03:05 PM – 03:30 PM:	Durba Bhattacharya	R Vishnu Vardhan
03:30 PM – 03:55 PM:	Amrit Paul	Somesh Kumar
03:55 PM – 04:10 PM:	Discussion and Remarks by the Chairperson	

Time ↓	Young Researchers Invited Talk/Contributory Paper Session 2
Chairperson →	**V S Vaidyanathan**
02:15 PM – 02:30 PM:	Amitha Puranik
02:30 PM – 02:45 PM:	R Amala
02:45 PM – 03:00 PM:	Sharon Varghese
03:00 PM – 03:15 PM:	Venkateswaran M
03:15 PM – 03:30 PM:	Vinaykumar L N
03:30 PM – 03:45 PM:	Suresh Prasad Kannojia
03:45 PM – 04:00 PM:	Zakir Hussain Wani
04:00 PM – 04:15 PM:	Discussion and Remarks by the Chairperson

04:15 PM – 04:30 PM: BREAK

04:30 PM – 06:15 PM: Concurrent Young Researchers (YR) Invited Talk/Contributory

Paper Sessions

Time ↓	YR Invited Talk/Contributory Session 3	YR Invited Talk/Contributory Session 4	YR Invited Talk/Contributory Session 5
Chairperson →	**B N Mandal**	**Renu Kaul**	**Vishnu Vardhan R**
04:30 PM – 04:45 PM:	Shantaram B. Dhum	Md. Ashraful Haque	Rizwan Yousuf
04:45 PM – 05:00 PM:	Bhavik Jain	Sandip Shil	Sanchita Naha
05:00 PM – 05:15 PM:	C Sruti	Sanya Aggarwal	Soumen Pal
05:15 PM – 05:30 PM:	Soumya P	Shishir Kumar Jha	Uma Bhattacharya
05:30 PM – 05:45 PM:	Joshy C G	Vilayat Ali Bhat	Vivek Patadiya
05:45 PM – 06:00 PM	Kaustav Aditya	Faizan Danish	Mukund Ramtirthkar
06:00 PM – 06:15 PM	Discussion and Remarks by the Chairperson		

06:15 PM – 06:30 PM: BREAK

06:30 PM – 08:55 PM: Hukum Chandra Memorial Session

Chairperson: J.N.K. Rao
Co-Chair: Rajender Parsad

06:40 PM – 07:10 PM	Ray Chambers
07:10 PM – 07:35 PM	Monica Pratesi
07:35 PM – 07:55 PM	Sanghamitra Pal
07:55 PM – 08:15 PM	Priyanka Anjoy
08:15 PM – 08:40 PM	Nicola Salvati (Video presentation)
08:40 PM – 08:55 PM	Discussion and Remarks by the Chairperson

Day 4: Saturday, 26 February 2022

09:30 AM – 12:25 PM: Lal Mohan Bhar Memorial Session

Chairperson: Bikas K. Sinha
Co-Chairperson: Rajender Parsad

09:40 AM – 10:05 AM	Rita Saha Ray
10:05 AM – 10:30 AM	Manisha Pal
10:30 AM – 10:55 AM	Siuli Mukopadhyay
10:55 AM – 11:20 AM	V. Ramasubramaniam
11:20 AM – 11:45 AM	Ranjit Kumar Paul
11:45 AM – 12:10 PM	K.K. Singh Meiti
12:10 PM – 12:25 PM	Discussion and Remarks by the Chairperson

12:25 PM – 01:50 PM: BREAK

01:50 PM – 03:45 PM: Concurrent Invited Talks Session

Time ↓	Invited Talk Session 8	Invited Talk Session 9	Invited Talk Session 10
Chairperson →	K Muralidharan	M.R. Srinivasan	Ramasubramanian V
01:50 PM – 02:15 PM:	Asha Gopalakrishnan	Madhuchhanda Bhattacharjee	V S Vaidyanathan
02:15 PM – 02:40 PM:	Basanagouda S Biradar	P G Sankaran	Neera Kumari
02:40 PM – 03:05 PM:	Pratima Bhavagosai	Manish Sharma	Nilabjha Ghosh
03:05 PM – 03:30 PM:	Soumen Manna	Renu Kaul	Vajala Ravi
03:30 PM – 03:45 PM	Discussion and Remarks by the Chairperson		

03:45 PM – 04:00 PM: BREAK

04:00 PM – 5:45 PM: Concurrent Young Researchers Invited Talk/Contributory Paper Sessions

Time ↓	YR Invited Talk/Contributory Session 6	YR Invited Talk/Contributory Session 7	YR Invited Talk/Contributory Session 8
Chairperson →	V Srinivasa Rao	Vishnu Vardhan R	V Ravi
04:00 PM – 04:15 PM:	Nilesh Kumar	Sayantani Karmakar	Pradip Basak
04:15 PM – 04:30 PM:	Arunima S Kannan	M Iqbal Jeelani	Jyoti
04:30 PM – 04:45 PM:	Dashina P	Jahnavi Merupula	Rameez Roshan
04:45 PM – 05:00 PM:	B Vittal	Md Yeasin	Siva G
05:00 PM – 05:15 PM:	Arshid Ahmad Bhat	Shikha Verma	Baibhav Kumar
05:15 PM – 05:30 PM	Vinayaka	Neha Midha	Sharanbasappa
05:30 PM – 05:45 PM	Discussion and Remarks by the Chairperson		

05:45 PM – 06:00 PM: BREAK

06:00 PM – 07:55 PM: Financial Statistics Session
Chairperson: T.V. Ramanathan

06:00 PM – 06:25 PM	Bhavna Sharma
06:25 PM – 06:50 PM	K.J.S. Satyasai
06:50 PM – 07:15 PM	Rituparna Sen
07:15 PM – 07:40 PM	Sanjib Kumar Basu
07:40 PM – 07:55 PM	Discussion and Remarks by the Chairperson

Day 5: February 27, 2022: Sunday

09:30 AM – 11:45 AM: Concurrent Invited Talks Session/YR Invited/Contributory Talk

Time ↓	Invited Talk Session 11/ Contributory
Chairperson →	Somesh Kumar
09:30 AM – 09:55 AM:	Anuradha
09:55 AM – 10:20 AM:	Sapam Sobita
10:20 AM – 10:45 AM:	P.K. Banerjee
10:45 AM – 11:10 AM:	N R Sahasranaman
11:10 AM – 11:25 AM:	Santhosha Rathod
11:25 AM – 11:40 AM:	Discussion and Remarks by the Chairperson

Time ↓	YR Invited Talk/Contributory Session 9
Chairperson →	**Ranjit Kumar Paul**
09:30 AM – 09:45 AM:	Sukanta Dash
09:45 AM – 10:00 AM:	Lakshmi Sonkusale
10:00 AM – 10:15 AM:	V Sai Sarada
10:15 PM – 10:30 AM:	Bodhoditya Barma
10:30 AM – 10:45 AM:	Divya Kappara
10:45 AM – 11:00 AM:	G Avinash
11:00 AM – 11:15 AM:	Neela Gulanikar
11:15 AM – 11:30 AM:	V. Nandhini
11:30 AM – 11:45 AM:	Discussion and Remarks by the Chairperson

11:45 AM – 02:00 PM: Concurrent Invited Talks Session/YR Invited/Contributory Talk

Time ↓	Invited Talk Session 12/YR Invited
Chairperson →	**A Dhandapani**
11:45 AM – 12:05 PM:	K K Chaturvedi
12:05 PM – 12:30 PM:	S B Lal
12:30 AM – 12:55 PM:	M Balakrishnan
12:55 PM – 01:20 AM:	Supriya P
01:20 PM – 01:35 AM	Soumya Pandey
01:35 AM – 01:50 AM:	Discussion and Remarks by the Chairperson

Time ↓	YR Invited Talk/Contributory Session 10
Chairperson →	**Sanjoy Roy Choudhury**
11:45 AM – 12:00 Noon:	Priyanka Majumder
12:00 Noon – 12:15 PM:	Vasili B V Nagarjuna
12:15 PM – 12:30 PM:	Manish Goyal
12:30 PM – 12:45 PM:	Shreyashi Basak
12:45 AM – 01:00 PM:	Anjana Mondal
01:00 PM – 01:15 PM:	Rashmi Sharma
01:15 PM – 01:30 PM:	Rohan D. Koshti
01:30 PM – 01:45 PM:	Kapil Choudhary
01:45 PM – 02:00 PM:	Discussion and Remarks by the Chairperson

02:00 PM – 03:00 PM: BREAK

03:00 PM – 03:45 PM: Valedictory Function

Titles of talks

Speaker	Title
Special Talks	
Speaker	**Title**
Keynote Address	
Shyamal Peddada	A Novel Differential Abundance Analysis Methodology forCompositional Data Links Gut Microbiota with an Increased Risk of Susceptibility to HIV Infection and AIDS
M N Das Memorial Lecture	
John Stufken	Does Design Selection Matter for 2-level Screening Experiments?
J.K. Ghosh Memorial Endowment Lecture	
Minerva Mukhopdhyay	Bayesian Semiparametric Longitudinal Inverse-Probit Mixed Models for Category Learning
Special Lecture	
R.C. Agrawal	The Landscape of Agricultural Education
Bikas Kumar Sinha Endowment Lecture	
Simo Puntanen	Personal Photographic Glimpses of Professor Bikas Kumar Sinha
V.K. Gupta Endowment Award for Achievements in Statistical Thinking and Practice	
Arun Kumar Nigam	Alternatives to Global Hunger Index
B.K. Kale Endowment Lecture	
David D. Hanagal	Correlated Positive Stable Frailty Models Based on Reversed Hazard Rate
Hukum Chandra Memorial Session	
Ray Chambers	In Memory of Hukum Chandra: His Research on Model Based Direct Estimation for Small Areas
Monica Pratesi	Spatial Price Indexes by Scanner Data on Retail Prices to Improve Poverty Measures
Sanghamitra Pal	Model Based Prediction in Adaptive Sampling
Priyanka Anjoy	Spatial Hierarchical Bayes Small Area Inference
Nicola Salvati	Hukum's work on outlier robust SAE and Non-stationarity spatial models for SAE
Lal Mohan Bhar Memorial Session	
Rita Saha Ray	Robust Generalized Quadratic Discriminant Analysis
Manisha Pal	D-Optimum Designs for Optimum Mixture in a Quadratic Log Contrast Model
Siuli Mukhopadhyay	Statistical power and sample size requirements in four level longitudinal cluster randomized trials
V. Ramasubramaniam	Genetic algorithm based classification tree modelling in agricultural ergonomics
Ranjit Kumar Paul	Wavelet Decomposition and Forecasting Agricultural Commodity Prices
K.K. Singh Meiti	An Universally Optimal One-Sided Circular Neighbour-Balanced Designs With K=8
Financial Statistics Session	

Special Talks	
Speaker	**Title**
Bhavna Sharma	Merchant transactions through digital payments
K.J.S. Satyasai	Inequalities among Agricultural Households: An Exploration through various Agricultural Surveys
Rituparna Sen	Network Modeling of Contagion in High Dimensional Financial Time Series
Sanjib Kumar Basu	Actionable Business Insights using Machine Learning Models

Invited Talks	
Speaker	**Title**
Session 1	
Aditi Sharan	Towards Word Embeddings And Deep Learning For Text Mining/Natural Language Processing
Dwijesh Mishra	Trait Associated Genes Prediction: Some Insights
James KC	Computer Simulation: Some views on Model Development, Experimentation and Robust Design
Rajni Jain	Multi-criterion approach for analysing state and district level agricultural infrastructural adequacy
Swati Goswami	Clustering in Networked Data
Session 2	
Anjana S	Modelling and Analysis of Recall Based Competing Risks Data
Dootika Vats	Lugsail Lag Windows for Estimating Time-Average Covariance Matrices
Monika Bhattacharjee	Asymptotics of Large Autocovariance Matrices
V M Chacko	On new joint importance measures for multistate systems
Vishal Deo	Cost-Effectiveness Analysis of Non-Medical Interventions for COVID-19 Using A New State-Space Epidemiological Model
Session 3	
Dharmendra Yadav	
Dibyojyoti Bhattacharjee	
Dilip K Dey	Population decline – A World Perspective
Geeta Kalucha	Variations of the Ratio Estimator of Population Mean under Quantitative Optional RRT models
Jyoti Darbari	A Glimpse into Multiple Criteria decision making techniques
Session 4	
Alka Arora	Agricultural University Ranking System: e Initiative
Anshu Bharadwaj	Leveraging the Digital technologies to achieve Sustainable Agriculture
Mukesh Kumar	FFP Portal: An Overview
Shashi Dhaiya	Publication Recommendation System for Scientific and Academic Community in Agriculture
Session 5	

Invited Talks	
Speaker	**Title**
Akanksha S Kashikar	Examining the Validity of the Proportional Hazards Assumption in Cox's Model
Anuradha Rajkonwar Chetiya	Stochastic Processes and Their Applications in Music
Khimya Tinani	Analysis of Inventory models for randomly available suppliers under inflation and trade credit
Navin Chandra	Competing risks survival analysis under COVID-19 pandemic situation-an application of middle censoring scheme
Session 6	
Amrit Paul	Estimation of Heritability using half-sib model under correlated Errors
Cini Varghese	Partially Replicated Designs for Breeding Trials
Durba Bhattacharya	Dirichlet process based mixture modelling for genetic association studies
Pritam Ranjan	A Comparative Study of Statistical Models and Machine Learning Algorithms for Modelling the Renewal Life of Indian Patents
Session 7	
Bhagwathi Devi	Bayesian Estimation Procedures for Generalized Inverted Family of Distributions
Praveena AS	On subexponential distributions and their max domains of attraction
R Vishnu Vardhan	Change Point Detection using the Kumaraswamy Power Lomax Distribution
Somesh Kumar	Tests for Homogeneity of Stress-strength Indices in Exponential Models
Session 8	
Asha Gopalakrishnan	
Basanagouda S. Biradar	Weighted Extropies of Ranked Set Samples
Pratima Bhavagosai	
Soumen Manna	Small Sample Classification Problem – Estimation of Evaluation Metrics
Session 9	
Madhuchhanda Bhattacharjee	Novel modelling approaches for QoL Data from cancer patients
P G Sankaran	
Manish Sharma	Profit to Rice Growers in India: Implication to Doubling the Farmers Income
Renu Kaul	Robust Parameter Design for a two-level Combined Array
Session 10	
V S Vaidyanathan	Modelling dispersed count data using two-parameter Poisson distribution
Neera Kumari	
Nilabjha Ghosh	

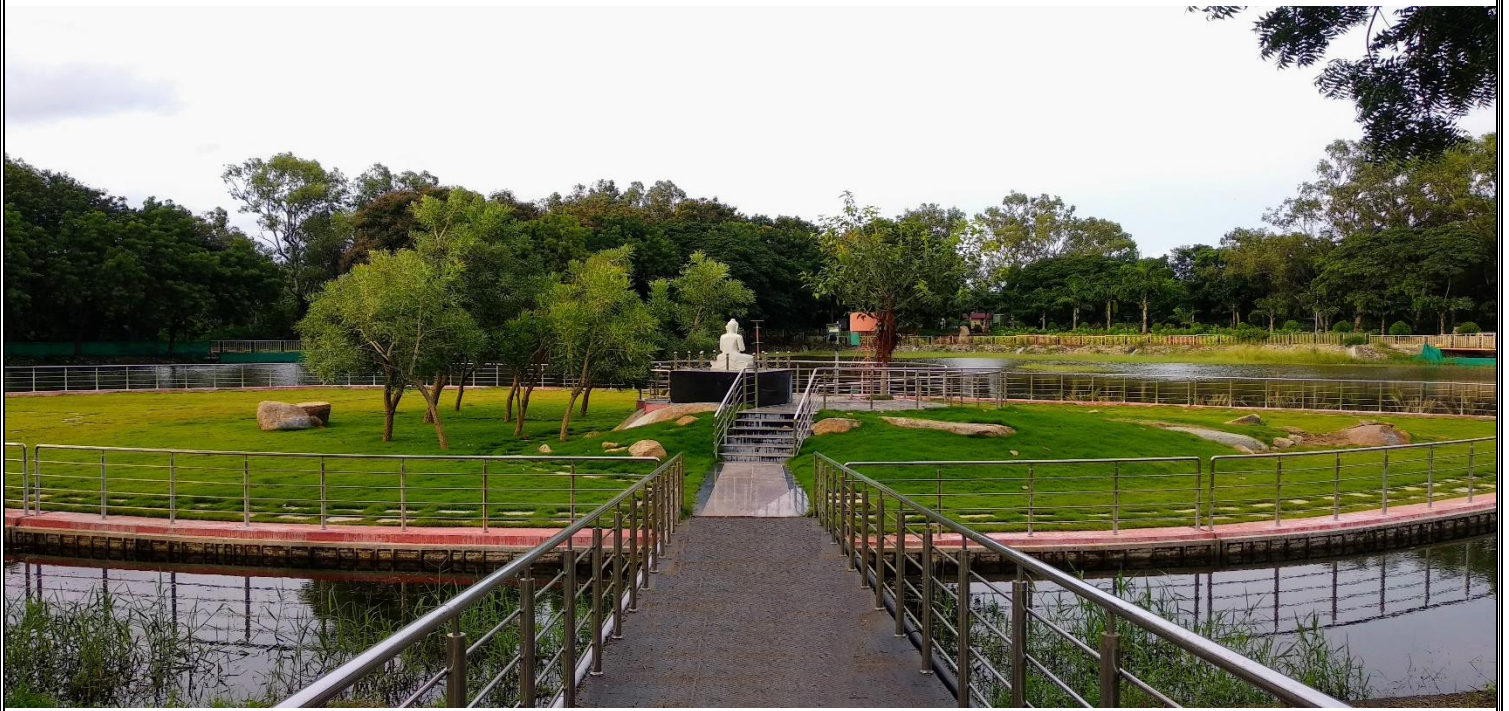| Invited Talks	
Speaker	**Title**
Vajala Ravi	Markov Chain Modelling of Persistency for Life Insurance in India
Session 11	
Anuradha	Limit Theorems of r-look-back runs of length k for m-th order Markov Chains
Sapam Sobita	Randomized Block Designs under Mixed Effects Model for with Both-sided Neighbor-Effects
P.K. Banerjee	An application of Agrawal-Panda type post stratified estimates in cluster sampling type situations with application in estimating average student enrolment in a class
N R Sahasranaman	Text Analytics in Hadoop with Pseudo-Distributed Mode
Santhosha Rathod	Artificial-Intelligence-Based Intervention modeling approach for forecasting time series data
Session 12	
K K Chaturvedi	Role of Big Data in Agriculture
S B Lal	Challenges of Data Management in Cloud Computing
M Balakrishnan	Homology Modeling of Capsid Protein from Mung Bean Yellow Mosaic India Virus using Modeller
Supriya P	Trends and Application of Bioinformatics and Data science in Agriculture
Soumya Pandey	Phenotyping reproductive traits in *Clarias magur*

Young Researchers Invited Talk/Contributory Paper	
Speaker	**Title**
Session 1	
Afshan Tabassum	Predictive Modelling of Height and Diameter Relationships of Himalayan Chir Pine
Khalid Ul Islam Rather	Approximate Optimum Strata Boundaries For Proportional Allocation Using Ranked Set Sampling
Kumarapandian G	Predicting the Top Performing Players during the T20 Cricket World Cup 2022 using Principal Component Analysis
Palash Kumar Malo	Network Meta-Analysis: A Tool for the New Generation Evidence Synthesis
S K B Sangeetha	A Systematic Study Of Data Pre-processing : Concepts, Tools And Resolvable Issues
Venkatesh Boya	Two methods of evaluating the Operating Characteristic of x-bar chart using triplet estimates
Yashavanth, B S	Forecasting number of animals insured under Livestock Insurance Scheme using Grey Model
Session 2	

Young Researchers Invited Talk/Contributory Paper	
Speaker	**Title**
Amitha Puranik	On the application of geographically weighted regression – a spatial regression method
R Amala	Ordered Three Class ROC Analysis Using Parametric Method
Sharon Varghese	A simple step-stress model for Chen distributed lifetimes under Type 1 censoring
Venkateswaran M	Stochastic Storage Models With Drift, Jump-Diffusion
Vinaykumar L N	A series of two replicate resolvable PBIB(3) designs in blocks of unequal sizes
Suresh Prasad Kannojia	Statistical Analysis of AEAD ciphers for Transport Layer Security: An Experimental Approach
Zakir Hussain Wani	Optimum estimation of population means in stratified random sampling using regression type estimator – Non-Response Situation
Session 3	
Shantaram B. Dhum	Deciding optimal number of segments in Detrended Correspondence Analysis
Bhavik Jain	Analysis of the Content available on the OTT(Over the top) platforms
C. Sruti	Cognitive Psychology - Perspective Of Thinking Statistically Analysis On The Perspective Of Thinking Of Parents And Children Is Similar Or Not.
Soumya P	Market Integration of Major Garlic Markets in India Using ARDL Approach
Joshy C G	Development of Web and Demerit Score Based Fish Quality Index (FQI) for Fresh Fish and Shelf Life Prediction Using Statistical Models
Kaustav Aditya	Food and Nutrition in Indo Gangetic Plain Region -A Disaggregate Level Analysis
Session 4	
Md. Ashraful Haque	Recognition of disease severity levels of using deep learning techniques
Sandip Shil	Spatial distribution and hotspot risk prone area assessment of fruit rot disease in Areca catechu L. using suitable geostatistical approaches in Malnad and coastal tracts of Karnataka, India
Sanya Aggarwal	Estimating Disability Adjusted Life Years using Survival Models in HIV/ AIDS Risk Groups
Shishir Kumar Jha	Analysing Demographic Survey Data Using Bayesian Spatial Modelling Approach
Vilayat Ali Bhat	Intervened Exponential Model as a Lifetime Distribution
Faizan Danish	Optimum Stratification using Auxiliary Information with Mixture of Ratio and Product Estimators under Super-Population Model
Session 5	

Young Researchers Invited Talk/Contributory Paper	
Speaker	**Title**
Rizwan Yousuf	Outlier Detection in Cobb Douglas Production Function based on Robust Parameter Estimates
Sanchita Naha	Ontology Driven Context Aware Recommender System for Maize Cultivation
Soumen Pal	E-governance of Krishi Kalyan Abhiyan through Krishi Vigyan Kendra Knowledge Network
Uma Bhattacharya	A Comparative Study On The Use Of Covaxin And Covishield Vaccine In India
Vivek Patadiya	India - A Fertile Ground for Agricultural Statistics Research
Mukund Ramtirthkar	Maximum likelihood estimation in second order branching process with continuous state space
Session 6	
Nilesh Kumar	Orthogonal Latin Hypercubes Using Permutation Groups
Arunima S Kannan	Estimation of Area under the ROC curve in the framework of Exponential Mixtures
Dashina P	Confidence Interval Approach in Estimating the AUC of Bi-Generalised Half-Normal ROC Curve
B Vittal	Slack Based Measure of Super Efficiency in Data Envelopment Analysis: A Comparison using Indian Banking Data
Arshid Ahmad Bhat	Efficient Adaptive Cluster Sampling Model assisted through product type estimator
Vinayaka	Partially Balanced Nested Block Designs for Making Test Treatments-Control Treatment Comparisons
Session 7	
Sayantani Karmakar	2-part Incomplete Block Designs
M Iqbal Jeelani	Data Maneuvering, Visualization and Modelling of Plant Breeding Trails in R Studio
Jahnavi Merupula	Prediction interval for a two-parameter Poisson regression model
Md Yeasin	Deep Learning Models with Exogeneous Variables for Forecasting Price of Potato in Markets of Odisha, India
Shikha Verma	Multiclass Classification for Text documents in Biomedical domain
Neha Midha	Mixture Designs Generated Using Orthogonal Arrays From Mutually Orthogonal Latin Squares
Session 8	
Pradip Basak	Forecasting of Urban Unemployment Rate in India by combining Periodic Labour Force Survey Estimates and Grey Prediction Model
Jyoti	Varying Probability Sampling for Estimation in Incomplete Frame

Young Researchers Invited Talk/Contributory Paper	
Speaker	**Title**
Rameez Roshan	Alternate approaches to estimate the precision of variance components and heritability estimated by REML method under disputable large sample approximation
Siva G	Estimating the AUC of MROC curve using Confidence Intervals of Mean Vectors
Baibhav Kumar	Identification of Drought Responsive Long Non-Coding RNAs in Pearl millet
Sharanbasappa	A Deep Clustering Based Binning Approach for Metagenomics Data
Session 9	
Sukanta Dash	Row-Column Designs for Two Level Factorial Experiments
Lakshmi Sonkusale	Topic modelling for covid-19 literature using Latent Dirichlet Allocation
V Sai Sarada	Missing value replacement using triplet method for mean
Bodhoditya Barma	A Comparative Simulation Study of Statistical Parametric and Nonparametric Classification Techniques Based on Variables and their Corresponding Principal Components
Divya Kappara	Modelling COVID-19-II: Spatio-temporal models with application to Kerala data
G Avinash	Unravelling Hidden Markov Models for data applications
Neela Gulanikar	Death process approach for modelling changes in marriage rates
V Nandini	Extreme Value Theory and its Related Models for real life applications
Session 10	
Priyanka Majumder	Detecting trend change in failure rate functions
Vasili B V Nagarjuna	Marshall-Olkin Exponential Lomax Distribution and its Applications to Change Point Detection
Manish Goyal	Testing the Equality of Scale Parameters with Real Life Applications
Shreyashi Basak	Inference on the common mean direction of several Langevin populations
Anjana Mondal	Testing Against Ordered Alternatives in a Two-Way ANOVA Without Interaction
Rashmi Sharma	Use of Projective Geometry to construct Diallel Crossing System
Rohan D. Koshti	Application of ranked set sampling in estimation of average Reid Vapor Pressure of Gasoline
Kapil Choudhary	Variational mode decomposition based neural network for agricultural price forecasting