International Conference on Statistics, Probability, Data Science and Related Areas

In conjunction with

42nd Annual Convention of Indian Society for Probability and Statistics (ISPS)

January 04-06 2023

ICSPDS2023

PROGRAMME SCHEDULE

04-01-2023 | DAY 1

Time	Main Hall	Room 1	Room 2	Room 3	Room 4
— 09.30 AM-10.00 AM: INAUGURAL CEREMONY					
10.00 AM-10.15 AM: TEA BREAK					
10.15 AM-11.00 AM	**Keynote address** Chair: P. G. Sankaran Speaker: **Debasis Kundu** (*IIT Kanpur, India*) Title: Bivariate Semi-Parametric Singular Family of Distributions and Its Applications	–	–	–	–
11.00 AM-11.30 AM	**4P1** Chair: **Roshan V. Joseph** Speaker: **Bovas Abraham** (*University of Waterloo, Canada*) Title: Data Science, Democracy, and Drawing the Line	–	–	–	–

DATE	SESSION TYPE	SESSION NUMBER	TALK TYPE	TALK NUMBER

For example,

5S10C1

First contributory talk of session 10 on 05-01-2023

DATE : 04-01-2023 **(4)** / 05-01-2023 **(5)** / 06-01-2023 **(6)**
SESSION TYPE : PLENARY **(P)** / ENDOWMENT **(E)** / SESSION **(S)**
SESSION NUMBER : 1 TO 17
TALK TYPE : INVITED **(I)** /CONTRIBUTORY **(C)**
TALK NUMBER : 1 TO 8

| 11.35 AM-12.05 PM | **4E1-ISPS Endowment talk A. M. Mathai Endowment Lecture**
Chair: **N. Balakrishna**

Speaker: **Hira L. Koul**
(*Michigan State University, USA*)

Title: A Class of Minimum Distance Estimators in Markovian Multiplicative Error Models | **4E3-ISPS Endowment talk M. P. Shastry Endowment Lecture**
Chair: Ashis SenGupta

Speaker: **P. G. Sankaran**
(*CUSAT, India*)

Title: Semi-Parametric Regression Analysis of Mixed Recurrent Event and Panel Count Data With Multiple Causes of Failure | **4S7 Design of Experiments**

Chair: **Arpan Bhowmik**

4S7I1: Arpan Bhowmik
(*ICAR-IARI, Assam, India*)
Time: 12.00 PM-12.25 PM
Title: On Some Trend Resistant PBIB Designs Useful for Agricultural Experiments

4S7I2: Prabhaker Mishra
(*Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow, India*)
Time: 12.25 PM-12.50 PM
Title: Advantage and Limitation of the Linear Mixed Model Over Repeated Measures ANOVA: An Application on Longitudinal Data.

4S7C1: Srishti Kumari
(*Christ (Deemed to be University), Bengaluru, India*)
Time: 12.50 PM-01.05 PM
Title: Neutrosophic Approach to Randomized Block Design | **4S10 Probabilistic Modeling**

Chair: **C. Satheesh Kumar**

4S10I1: Deepesh Bhati
(*Central University of Rajasthan, India*)
Time: 11.35 AM-12.00PM
Title: A New Bivariate Composite Models for Claim Severity Modelling Using Copula | **4S13 Statistical Inference**

Chair: **Irshad M. R.**

4S13C1: M. Ramakrishnan
(*Ramakrishna Mission Vivekananda College, Chennai, India*)
Time: 11.35 AM-11.50 AM
Title: Statistical Methods Compared With Bootstrapping for Survival Data |
| 12.05 PM-01.10 PM | **4S1 Recent Advances in Time Series**
Chair: **Leena Kalliovirta**

4S1I1: Balaji Raman
(*Cogitaas AVA*)
Time: 12.05 PM-12.30 PM
Title: Estimating Underlying Demand and Forecasting Future Sales of a Retailer Based on Multiple Time Series

4S1I2: Manik Awale
(*Savitribai Phule Pune University, India*)
Time: 12.30 PM-12.55 PM
Title: Zero Modified INAR(1) Process With Poisson - Lindley Innovations and Having Seasonal Structure

4S1C1: Mrinmoy Ray
(*ICAR-IASRI, New Delhi, India*)
Time: 12.55 PM-01.10 PM | **4S4 Lifetime Data Analysis and Bayesian Applications**
Chair: **Asha Gopalakrishnan**

4S4I1: Sebastian George
(*Kannur University, India*)
Time: 12.05 PM-12.30 PM
Title: Comparison of Various Methods in Using Historical Data to Establish Control Arm in Randomized Clinical Trials

4S4C1: Preethi M.
(*Kannur University, India*)
Time: 12.30 PM-12.45 PM
Title: Empirical Bayesian Estimation With Application to the COVID-19 Data Analysis

4S4C2: Akurathi Jaya Naga Sri
(*University of Hyderabad, India*)
Time: 12.45 PM-01.00 PM
Title: Semiparametric Analysis of Linear Transformation Model for | | **4S10I2: Abdul Sathar E. I.**
(*University of Kerala, India*)
Time: 12.00 PM-12.25 PM
Title: On Some Properties of Geometric Vitality Function of Record Values

4S10C1: Vipin Mohan
(*University of Kerala, India*)
Time: 12.25 PM-12.40 PM
Title: On Some Properties of Two-Piece Pareto Model

4S10C2: Greeshma Chandran
(*University of Calicut, India*)
Time: 12.40 PM-12.55 PM
Title: On Alpha Gamma Power Transformation for Life Distributions With Applications to Real Life Data

4S10C3: Laxmi B. Dharmannavar
(*Christ (Deemed to be University), Bengaluru, India*) | **4S13C2: Banoth Veeranna**
(*University of Hyderabad, India*)
Time: 11.50 PM-12.05 PM
Title: Some Remarks on Pseudo-Poisson and Its Goodness-of-Fit

4S13C3: Girish Aradhye
(*Central University of Rajasthan, India*)
Time: 12.05 PM-12.20 PM
Title: An EM Type Estimation for a Novel Mixed Composite Models

4S13C4: Jaaziah P John
(*University of Kerala, India*)
Time: 12.20 PM-12.35 PM
Title: Estimation Based on Sequential Order Statistics for Lindley Distribution

4S13C5: Mannat Mand
(*Sant Longowal Institute of* |

	Title: Time-Delay Spatio Temporal Wavelet Neural Network for Time Series Forecasting	Competing Risks Data With Covariate Measurement Error and Missing Cause of Failure **4S4C3: Himanshi Sharma** (*Banasthali Vidyapith, Rajasthan, India*) Time: 01.00 PM-01.15 PM Title: Maximum Likelihood and Bayesian Estimation of Parameter of Single Server Markovian Queueing Model With Balking		Time: 12.55 PM-01.10 PM Title: Non-Stationary Modeling of Annual Peak Flood Heights of Mahanadi River Basin With the q-Generalized Extreme Value Distribution	*Engineering and Technology, Punjab, India*) Time: 12.35 PM-12.50 PM Title: Influence Function and Its Relevance in Robust Estimation: A Brief Study **4S13C6: Traison T.** (*Pondicherry University, India*) Time: 12.50 PM-01.05 PM Title: Tests for Comparing the Means of Two Independent Reparameterized Conway-Maxwell Poisson Distributions **4S13C7:Pavithra Hariharan** (*CUSAT, India*) Time: 01.05 PM-01.20 PM Title: Bayesian Semiparametric Regression Model for Current Status Competing Risks Data
01.05 PM-02.15 PM: LUNCH BREAK				
02.15 PM-02.45 PM	**4P2** Chair: **Sebastian George** Speaker: **A. M. Mathai** (*McGill University, Canada*) Title: Distribution of the Sample Correlation Matrix and Its Extensions	_	_	_	_

02.50 PM-03.20 PM	**4E2-ISPS Endowment talk P.V. Sukhatme Endowment Lecture** Chair: **Debasis Kundu** Speaker: **Ashis SenGupta** (*ISI Kolkata, India*) Title: Prof. P.V. Sukhatme, Nutritional Science and Predictive Inference With CoS	**4E4-ISPS Endowment talk D.D. Hanagal Endowment Lecture** Chair: **Raosaheb Latpate** Speaker: **Viswanathan N.** (*Presidency College, Chennai, India*) Title: Estimation of lower order quantiles in Survival distribution with high censoring rate	**4S8** **Probability Distributions** Chair: **M. Manoharan** 4S8I1: **C. Satheesh Kumar** (*University of Kerala, India*) Time: 02.50 PM-03.15 PM Title: On Bivariate Random Sum Distributions 4S8I2: **B G Manjunath** (*University of Hyderabad, India*) Time: 03.15 PM-03.40 PM Title: Equi-Dispersed Normal Conditional Models	**4S11** **Analysis of Censored Data** Chair: **Sudheesh Kumar Kattumannil** 4S11I1: **Manoj Chacko** (*University of Kerala, India*) Time: 02.50 PM-03.15 PM Title: Estimation based on adaptive type-II progressive censored schemes 4S11I2: **Anjana S.** (*University of Hyderabad, India*) Time: 03.15 PM-03.40 PM Title: U-Statistics for Right Censored and Left Truncated Data	**4S14** **Sampling Designs** Chair: **Ranjit Kumar Paul** 4S14C1: **Sahaya Jefrin M.** (*Christ (Deemed to be University), Bengaluru, India*) Time: 02.50 PM-03.05 PM Title: Construction of Skip-Lot Sampling Plans Including Resampling Under the Condition of Zero Inflated Poisson Distribution
03.20 PM-03.45 PM	**4S2** **System Reliability** Chair: **Abdul Sathar E. I.** 4S2I1: **S. C. Malik** (*Maharshi Dayanand University, Rohtak, India*) Time: 03.20 PM-03.45PM Title: Reliability Analysis of a Non-Series Parallel System of (m, n_c, l) Order With Weibull Failure Laws	**4S5** **Bayesian Regression Analysis** Chair: **Nalini Ravishanker** 4S5I1: **Pushpa Wijikoon** (*University of Peradeniya, Sri Lanka*) Time: 03.20 PM-03.45 PM Title: Improved Estimators in Misspecified Regression Model When Prior Information Present and Absent			4S14C2: **Jyoti** (*Banasthali University, Rajasthan, India*) Time: 03.05 PM-03.20 PM Title: Estimation in Population with Incomplete Frame Using PPS Sampling in Ratio Method 4S14C3: **Meby Joseph Manoj** (*Christ (Deemed to be University), Bengaluru, India*) Time: 03.20 PM-03.35 PM Title: Designing of Combined Lot-by-Lot Sampling Plan With Single Sampling Plan as Reference Plan Under the Condition of Zero Inflated Poisson Distribution 4S14C4: **Jagmohan Singh Dhakar** (*NSCB Medical College, Jabalpur, India*) Time: 03.35 PM-03.50 PM

				Title: Estimation Procedure of Mean Under Measurement Errors in Systematic Sampling
03.45 PM-04.00 PM: TEA BREAK				
04.00 PM-05.35 PM	**4S3** **Statistical Inference on Complex Data** Chair: **K. K. Jose** 4S3I1: **Naveen Narisetty** (*University of Illinois Urbana-Champaign, USA*) Time: 04.00 PM-04.25 PM Title: Statistical Inference via Conditional Bayesian Posteriors in High-Dimensional Linear Regression 4S3I2: **Vijay Kumar Kukreja** (*SLIET Longowal, India*) Time: 04.25 PM-04.50 PM Title: Influence Function and Its Relevance in Robust Estimation: A Brief Study 4S3I3: **Ranjit Kumar Paul** (**ICAR-IASRI, India**) Time: 04.50 PM-05.15 PM Title: Integration of Stochastic, Machine Learning and Wavelet based Models	**4S6** **Inventory and Stochastic Models** Chair: **G. Arivarignan** 4S6I1: **Raosaheb Latpate** (*Savitribai Phule Pune University, India*) Time: 04.00 PM-04.25 PM Title: Cold Supply Chain Inventory Models for Agricultural Products With Multi–Stage Stochastic Deterioration Rates 4S6I2: **Abhishek Singh** (*Banaras Hindu University, India*) Time: 04.25 PM-04.50 PM Title: Forecasting Prices of Soybean Oil Using Statistical Methods 4S6C1: **Bhabani Shankar Mohanty** (*Central University Tamil Nadu, India*) Time: 04.50 PM-05.05 PM Title: A Green Inventory Model With Price Sensitive Demand Rate With Finite Rate of Production and Shortages 4S6C2: **Manika Agarwal** (*Banasthali Vidyapith, Rajasthan, India*) Time: 05.05 PM-05.20 PM	**4S9** **Information Theory** Chair: **Rajesh G.** 4S9I1: **V. S. Vaidyanathan** (*Pondicherry University, India*) Time: 04.00 PM-04.25 PM Title: Divergence Measures for Mixtures of Von-Mises Distributions 4S9I2: **Sudheesh Kumar Kattumannil** (*ISI Chennai, India*) Time: 04.25 PM-04.50 PM Title: On Some Results Related to Various Measures of Extropy/Entropy and Their Interrelationship 4S9C1: **Archana K.** (*CUSAT, India*) Time: 04.50 PM-05.05 PM Title: On Past Extropy and Negative Cumulative Extropy Properties of Ranked Set Sampling and Maximum Ranked Set Sampling With Unequal Samples 4S9C2: **Philip T.** (*CUSAT, India*)	**4S12** **Reliability Analysis** Chair: **S. C. Malik** 4S12I1: **Joby K. Jose** (*Kannur University, India*) Time: 04.00 PM-04.25 PM Title: Estimation of Stress-Strength Reliability With Phase-Type Distribution Under Progressive Type-II Right Censoring Scheme 4S12I2: **S. K. Chauhan** (*Shaheed Rajguru College of Applied Sciences for Women, Delhi, India*) Time: 04.25 PM-04.50 PM Title: Reliability Analysis of a Non Series- Parallel System of Five Components Using Different Methods 4S12C1: **Babasaheb Kundlik Thorve** (*New Arts, Commerce and Science College, Maharashtra, India*) Time: 04.50 PM-05.05 PM Title: Replacement Policy for Two Identical Components Cold Standby Repairable System by Using Arithmetico-Geometric	**4S15** **Design of Experiments** Chair: **Manoj Chacko** 4S15I1: **Eldho Varghese** (*ICAR-CMFRI, Kochi, India*) Time: 04.00 PM-04.25 PM Title: On Some Aspects of Third Order Rotatable Response Surface Designs 4S15C1: **Nehatai W. Agashe** (*ICAR-IASRI, India*) Time: 04.25 PM-04.40 PM Title: On Construction of Doubly Nested Partially Balanced Incomplete Block Designs 4S15C2: **Kaushal Kumar Yadav** (*ICAR-IASRI, New Delhi, India*) Time: 04.40 PM-04.55 PM Title: Designs for Two Level Factorial Experiments for Estimation of Specific Factorial Effects 4S15C3: **Ankita Verma** (ICAR-*IASRI, India*) Time: 04.55 PM-05.10 PM Title: Construction of Second Order Rotatable Design Involving Qualitative Factors

Title: A Bayes Analysis of Random Walk Model Under Different Error Assumptions 4S6C3: **Jamilu Abdullahi** (*Hassan Usman Katsina Polytechnic Katsina, Nigeria*) Time: 05.20 PM-05.35 PM Title: Efficiency of value at risk models in predicting value- at-risk estimate of selected crops in Nigeria	Time: 05.05 PM-05.20 PM Title: Jackknife Empirical Likelihood Ratio Test for Testing the Dilation Order by Using Cumulative Residual Tsallis Entropy 4S9C3: **Sneha Babu** (*CUSAT, India*) Time: 05.20 PM-05.35 PM Title: A Bivariate Exponential Distribution and Its Applications	Process. 4S12C2: **Sushil Malik** (*Maharshi Dayanand University, Rohtak, India*) Time: 05.05 PM-05.20 PM Title: Fuzzy Reliability Analysis of a Non-Series-Parallel System Using α-Cut and Path Tracing Methods	4S15C4: **Vinayaka** (*ICAR-IASRI, New Delhi, India*) Time: 05.10 PM-05.25 PM Title: Partially Balanced Nested Block Designs for Comparing Test Treatments With More Than One Control

05.50 PM-06.50 PM: SPECIAL SESSION TO HONOUR N. BALAKRISHNA

06.50 PM-07.50 PM: CULTURAL PROGRAMMES

08.00 PM: DINNER

Time	Main Hall	Room 1	Room 2	Room 3	Room 4
09.30 AM-10.00 AM	**Session to honour N. Balakrishna** **5P1** **Advances in Time Series** Chair: **Bovas Abraham** Speaker: **Nalini Ravishanker** (*University of Connecticut, USA*) Title: Modeling Multivariate Positive-Valued Time Series Using R-INLA	_	_	_	_
10.05 AM-10.55 AM	**Session to honour N. Balakrishna** **5S1** **Advances in Time Series** Chair: **David D. Hanagal** 5S1I1: **K. Jayakumar** (*University of Calicut, India*) Time: 10.05 AM-10.30 AM Title: On Some Autoregressive Models With Non-Gaussian Marginals 5S1I2: **Ramanathan Thekke Variyam** (*Savitribai Phule Pune University, India*) Time: 10.30 AM-10.55 AM	**5S4** **Applications of Bayesian Theory** Chair: **Naveen Narisetty** 5S4I1: **Sangita Kulathinal** (*University of Helsinki, Finland*) Time: 10.05 AM-10.30 AM Title: Bayesian Hidden Markov Model for Natural History of Colorectal Cancer: Handling Misclassified Observations, Varying Observation Schemes and Unobserved Data 5S4I2: **Antonietta Mira** (*Università della Svizzera italiana*) Time: 10.30 AM - 10.55 AM Title: Bayesian Identifications of Data Intrinsic Dimensions	**5S6** **Life Testing** Chair: **Joby K. Jose** 5S6I1: **Biswabrata Pradhan** (*ISI Kolkata, India*) Time: 10.05 AM-10.30 AM Title: On Optimum Life Testing Plans With Censoring 5S6I2: **Deepak Prajapati** (*IIM Lucknow, India*) Time: 10.30 AM-10.55 AM Title: Misspecification of Copula for One-Shot Devices Under Constant Stress Accelerated Life-Tests	**5S10** **Probability Models** Chair: **Shibu D. S.** 5S10C1: **Anuj Nain** (*Central University of Rajasthan, India*) Time: 10.05 AM-10.20 AM Title: Exploring New Mixtures of Distribution to Model Insurance Losses Data 5S10C2: **Akhila P.** (*Government Arts and Science College, Kozhikode, India*) Time: 10.20 AM-10.35 AM Title: A New Probabilistic Model in Yun-G Family and Its Applications	**5S14** **Statistical Methods in Waste Management** Chair: **Abhishek Singh** 5S14I1: **Ashish Kumar** (*Manipal University, Jaipur, India*) Time: 10.05 AM-10.30 AM Title: An Efficient Stochastic Framework for Performance Optimization of E-Waste Management Plant 5S14C1: **Najaf Ali Wani** (*Vellore Institute of Technology, India*) Time: 10.30 AM-10.45 AM Title: E Waste Reduction Through Green and Circular

	Title: Nonparametric Methods in Time Series: An Overview			5S10C3: **Ashlin Varkey** (*Farook College, Kozhikode, India*) Time: 10.35 AM-10.50 AM Title: Singh-Maddala Dagum Distribution	Ways 5S14C2: **Abin Thomas** (*Vellore Institute of Technology, India*) Time: 10.45 AM-11.00 AM Title: A Green Energy Circular System With Carbon Capturing and Waste Minimization in a Smart Grid Power Management

<table>
<tr><td colspan="5" align="center">10.55 AM-11.10 AM: TEA BREAK</td></tr>
<tr>
<td rowspan="2">11.10 AM-01.10 PM</td>
<td align="center">A. R. Kamath Award for Best Ph. D. Thesis</td>
<td align="center">ISPS Young Statistician Award</td>
<td align="center">5S7
Distributions and Quantiles</td>
<td align="center">5S11
Analysis of Complex Data</td>
</tr>
</table>

5S7 Distributions and Quantiles

Chair: **Dileepkumar M.**

A. R. Kamath Award for Best Ph. D. Thesis

1. **Ayan Pal** (*The University of Burdwan, India*)

2. **Sagar Pandhare** (*Savitribai Phule Pune University, India*)

3. **Kiran Patil** (*Anandibai Raorane Arts, Commerce and Science CollegeVaibhavwadi*)

4. **Rashmi Bundel** (*University of Rajasthan, India*)

ISPS Young Statistician Award

1. **Anand R.** (*University of Calicut, India*)

2. **Richu Rajesh** (*Christ (Deemed to be University), Bengaluru, India*)

3. **S. M. Patil** (*Shivaji University, Kolhapur, India*)

4. **Suresha Kharvi** (*St. Joseph's University, Bangalore, India*)

5S7 Distributions and Quantiles

Chair: **Dileepkumar M.**

5S7C1: **A. S. Praveena** (*University of Mysore, India*) Time: 11.10 AM-11.25 AM Title: On Characterizations of Max-Domains of Attraction of Standard Log-Fréchet and Loglog- Fréchet Laws Under Exponential Normalization.

5S7C2: **Namitha Suresh** (*CUSAT, India*) Time: 11.25 AM-11.40 AM Title: Additive Hazard Quantile Model

5S7C3: **Saranya P.** (*CUSAT, India*) Time: 11.40 AM-11.55 AM Title: Quantile-Based Cumulative Kullback-Leibler Divergence in

5S11 Analysis of Complex Data

Chair: **K. C. James**

5S11I1: **Rajeev Ranjan Kumar** (*ICAR-IASRI, New Delhi, India*) Time: 11.10 AM-11.35 AM Title: Genetic Algorithm Optimized Ensemble Deep Learning Technique for Drought Index Forecasting

5S11C1: **Chaitanya Sunil Alshi** (*SVKM's Mithibai College of Arts, Chauhan Institute of Science & Amrutben Jivanlal College of Commerce and Economics (Autonomous), Vileparle, India*) Time: 11.35 AM-11.50 AM Title: Machine Learning Approach for Red Indicator

5S11C2: **Venmani A.** (*SRM Institute of Science and*

5S15 Time Series Analysis

Chair: **Krishnarani S. D.**

5S15C1: **Nimitha John** (*Christ (Deemed to be University), Bengaluru, India*) Time: 11.10 AM-11:25 AM Title: Bivariate Autoregressive Model With Copula Errors

5S15C2: **Anuresha Krishna** (*CUSAT, India*) Time: 11.25 AM-11.40 AM Title: An Integer-Valued Autoregressive Model of Order p (INAR(p)) Based on PEE Innovations

5S15C3: **Arun S. P.** (*University of Kerala, India*) Time: 11.40 AM-11.55 AM Title: Estimation of Scale Parameter of Power Lindley

Past Lifetime: Some Properties and Applications 5S7C4: **Aswin I. C.** (*Christ (Deemed to be University), Bengaluru, India*) Time: 11.55 AM-12.10 PM Title: Reliability Aspects of Quantile-Based Residual Coefficient of Variation 5S7C5: **Rasin R. S.** (*St. Thomas' College, Thrissur, India*) Time: 12.10 PM-12.25 PM Title: Non Parametric Inference on Quantile Based Ageing Intensity Function 5S7C6: **Chinu Joseph** (*Maharaja's College, Enakulam, India*) Time: 12.25 PM-12.40 PM Title: Quantile-Based Dynamic Overlap Measure 5S7C7: **Akash Sharma** (*Rajiv Gandhi Institute of Petroleum Technology, Uttar Pradesh, India*) Time: 12.40 PM-12.55 PM Title: Varentropy of Doubly Truncated Random Variable 5S7C8: **Shabana Basheer** (*Mahatma Gandhi University, Kottayam, India*)	*Technology, Tamil Nadu, India*) Time: 11.50 AM-12.05 PM Title: A Comparative Study of Classification Models for Prediction of Diabetes Disease Using Data Mining Techniques 5S11C3: **Meera Ravindran** (*IQVIA, Cochin, India*) Time: 12.05 PM-12.20 PM Title: Monetary Policy Sentiment Analysis Using Twitter Data: Evidence From India 5S11C4: **Sanjana Rajamani** (*Christ (Deemed to be University), Bengaluru, India*) Time: 12.20 PM-12.35 PM Title: Comparing Imputation and Machine Learning Techniques for Longitudinal Data 5S11C5: **Gadha T.** (*Christ (Deemed to be University), Bengaluru, India*) Time: 12.35 PM-12.50 PM Title: The Gerber-Shiu Analysis of a Random Income Risk Process With Delayed By-Claims and a Horizontal Dividend Barrier 5S11C6: **Hashmy Hassan** (*CUSAT, India*) Time: 12.50 PM-01.05 PM Title: Semantic Searching in Knowledge Graphs	Distribution by U- Statistics 5S15C4: **Ronit Jaiswal** (*ICAR-IASRI, New Delhi, India*) Time: 11.55 AM-12.10 PM Title: Agricultural price forecasting using CNN-LSTM model With Genetic Algorithm for Hyperparameter Optimization 5S15C5: **Anna Thomas** (*Christ (Deemed to be University), Bengaluru, India*) Time: 12.10 PM-12.25 PM Title: Analysis and Forecasting of Crude Oil Price Based on Univariate and Multivariate Time Series Approaches 5S15C6: **Jevitha Lobo** (*Manipal Academy of Higher Education, India*) Time: 12.25 PM-12.40 PM Title: Forecasting Antimicrobial Resistance Rate With Zeros or Ones - A Contemporary Time Series Analysis Approach Using the R Shiny App 5S15C7: **G. Avinash** (*ICAR-IASRI, New Delhi, India*) Time: 12.40 PM-12.55 PM Title: Hidden Markov Model Hybridized With Deep Neural Networks for Agricultural Commodity Price Forecasting

		Time: 12.55 PM-01.10 PM Title: A New Discrete Transmuted Gompertz-Makeham Distribution and Its Truncated Version With Its Application to Lifetime Data		5S15C8: **Kalvinithi D.** (*University of Madras, India*) Time: 12.55 PM-01.10 PM Title: A Novel Statistical Approach for Computing the Air Quality Index
01.10 PM-02.15 PM: LUNCH BREAK				
02.15 PM-02.45 PM	**5P2** Chair: **Antonietta Mira** Speaker: **Tapabrata Maiti** (*Michigan State University, USA*) Title: Big Data: A Perspective From Statistical Foundational of Data Science	–	–	–
02.45 PM-03.25 PM: ISPS AWARD CEREMONY				
03.25 PM-03.40 PM: TEA BREAK				
03.40 PM - 04.05 PM	**5S2** **Time to Event Analysis** Chair: **Jai Kishun** 5S2I1: **Jagathnath Krishna K. M.** (*Regional Cancer Centre, Trivandrum, India*) Time: 03.40 PM-04.05 PM Title: Intermittent State Wise Cancer Survival Risk Estimation Using Multi-State Frailty Model	**5S5** **Multivariate Analysis** Chair: **M. Manoharan** 5S5I1: **Syamala** (*University of Zululand, South Africa*) Time: 03.40 PM-04.05 PM Title: Process Fault Identification Based on Singular Spectrum Analysis and Similarity Factor Analysis	**5S8** **Cure Rate Models** Chair: **Ishapathik Das** 5S8I1: **Asha Gopalakrishnan** (*CUSAT, India*) Time: 03.40 PM-04.05 PM Title: Identifiability Issues of Cure Models Based on Non Homogeneous Poisson Processes	**5S12** **Time Series Analysis** Chair: **N. Balakrishna** 5S12I1: **Leena Kalliovirta** (*University of Helsinki, Finland*) Time: 03.40 PM-04.05 PM Title: Diagnostic Tests Based on Residuals for Nonlinear Time Series Models	**5S16** **Applications of Statistics in Demography** Chair: **V. Kaviyarasu** 5S16I1: **Krishnarani S. D.** (*University of Calicut, India*) Time: 03.40 PM-04.05 PM Title: Child Mortality vs. Gross Domestic Product: A Spatio-Temporal Expedition
04.05 PM-05.55 PM	**5S3** **Auto-Regressive Models** Chair: **M. Venkateswaran**		**5S9** **Time to Event Analysis** Chair: **Jagathnath Krishna K. M.**	**5S13** **Probability Models** Chair: **Deepesh Bhati**	**5S17** **Regression Models** Chair: **Viswanathan N.**

5S3I1: Santanu Dutta (*Tezpur University, India*) Time: 04.05 PM-04.30 PM Title: Modeling Long Term Return Distribution and Market Risk Estimation.	**ISPS M.Sc. Students' Project Competition**	**5S9I1: Ishapathik Das** (*IIT Tirupati, India*) Time: 04.05 PM-04.30 PM Title: Modified Bivariate Weibull Distribution Allowing Instantaneous and Early Failures	**5S13I1: Shibu D. S.** (*University College, Thiruvananthapuram, India*) Time: 04.05 PM-04.30 PM Title: Lagrangian Probability Distribution: Construction, Properties and Applications	**5S17C1: Alona Biswa** (*North Eastern Hill University, India*) Time: 04.05 PM-04.20 PM Title: Generalized Inverse Regression Revisited

5S3I2: Rahul T.
(*RBI, India*)
Time: 04.30 PM-04.55 PM
Title: On Normal-Laplace Stochastic Volatility Model
	Team 1: **Mangalore University**
	Members:
	  Aravind.Pai
	  Moushika C Shetty
	  Nagarjuna C M
		5S9I2: Santosh Shashikant Sutar
		(*Shivaji University, Kolhapur, India*)
		Time: 04.30 PM-04.55 PM
		Title: Reliability Modeling and Analysis of Load Sharing System With Ties
			5S13I2: Princy T.
			(*CUSAT, India*)
			Time: 04.30 PM-04.55 PM
			Title: Entropy Optimized Probability Models and Its Applications to System Reliability
				5S17C2: Prinsha P. P.
				(*Kannur University, India*)
				Time: 04.20 PM-04.35 PM
				Title: Discrete Weibull Geometric Regression Model

5S3C1: Aishwarya Sharad Ghodake
(*Savitribai Phule Pune University, India*)
Time: 04.55 PM-05.10 PM
Title: Seasonal Zero Modified Geometric INAR(1) Process
	Team 2: **Savitribai Phule Pune University**
	Members:
	  Ayshik Neogi
	  Saurav Jadhav
	  Supratim Pal
		5S9C1: Teega Venkateswararao
		(*IIT Hyderabad, India*)
		Time: 04.55 PM-05.10 PM
		Title: Preservation of Mean Inactivity Time Ordering for Coherent Systems
			5S13C1: Alicia Mathew
			(*Bharathiar University, Coimbatore, India*)
			Time: 04.55 PM-05.10 PM
			Title: Wrapped Generalized Akash Distribution
				5S17C3: Anna Elizabeth Sebastian
				(*Christ (Deemed to be University), Bengaluru, India*)
				Time: 04.35 PM-04.50 PM
				Title: On the Performance of New Ridge Estimators on Zero Inflated Poisson Regression Model

5S3C2: Sri Ranganath C. G.
(*Caterpillar Inc.*)
Time: 05.10 PM-05.25 PM
Title: Lindley Autoregressive Conditional Duration Model
	Team 3: **University of Calicut**
	Members:
	  Ashna A P,
	  Athira K
	  Anusree K
		5S9C2: Amit Dev
		(*Maharshi Dayanand University, Rohtak, India*)
		Time: 05.10 PM-05.25 PM
		Title: On Use of Markov Approach for Cost-Benefit Analysis of a Three Non-Identical Unit Repairable System
			5S13C2: Nitin S. L.
			(*University College, Thiruvananthapuram, India*)
			Time: 05.25 PM-05.40 PM
			Title: A New Transformed Version of Log-Normal Distribution: Properties and Applications
				5S17C4: Keerthana A.
				(*Christ (Deemed to be University), Bengaluru, India*)
				Time: 04.50 PM-05.05 PM
				Title: New Type of Liu Estimator for Beta Regression Model

5S3C3: Hari Prasad E. (*CUSAT, India*) Time: 05.25 PM-05.40 PM Title: Estimating Function Method for Non-Negative Autoregressive Models		**5S9C3: Puran Rathi** (*Maharshi Dayanand University, Rohtak, India*) Time: 05.25 PM-05.40 PM Title: Reliability Measures of Four Units Parallel-Cold Standby System With Repair Priority	**5S13C3: Arathi S.** (*University of Kerala, India*) Time: 05.40 PM-05.55 PM Title: On Some Properties of Generalized Laplace Distribution	**5S17C5: Radhika Bhagwat** (*Christ (Deemed to be University), Bengaluru, India*) Time: 05.05 PM-05.20 PM Title: Modified Robust-Ridge Estimator for Dealing With Multicollinearity and Outliers in
5S3C4: Divya Kuttenchalil Andrews (*CUSAT, India*) Time: 05.40 PM-05.55 PM				

	Title: A Novel Geometric AR(1) Model and Its Estimation				Multiple Linear Regression Models
			5S9C4: Asif T. Thottathil (*Bharathiar University, Coimbatore, India*) Time: 05.40 PM-05.55 PM Title: Reliability Acceptance Sampling Plan With Increasing, Decreasing and Constant Failure Rates Distribution Under the Condition of Intervened Poisson Characteristics		**5S17C6: Bijjargi Shrinath Mahadev** (*Karnatak University, Dharwad, India*) Time: 05.20 PM-05.35 PM Title: Nonparametric Estimators for Simple Linear Regression Model **5S17C7: Ahmed Mohammed Aqlan Al-Hammadi** (*Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, India*) Time: 05.35 PM-05.50 PM Title: Application of Classification and Regression Tree (CART) and Principal Component Analysis (PCA) in Stock Marketing Data **5S17C8: Sagar C. Pandhare** (*New Arts, Commerce and Science College, Ahmednagar, India*) Time: 05.50 PM-06.05 PM Title: The Robust Desparsified Lasso and the Focused Information Criterion for High Dimensional Generalized Linear Models

06.05 PM: ISPS GENERAL BODY MEETING

06-01-2023   **DAY 3**

Time	Main Hall	Room 1	Room 2	Room 3	Room 4
09.30 AM-10.00 AM	**6P1** Chair: **TBA** Speaker: **N. Unnikrishnan Nair** (*CUSAT, India*) Title: Inferring Bayesian Bivariate Ageing From Univariate Ageing	_	_	_	_
10.00 AM-10.50 AM	**6S1** **Developments in Time Series Analysis** Chair: **Ramanathan Thekke Variyam** 6S1I1: **K. K. Jose** (*Mahatma Gandhi University, Kottayam, India*) Time: 10.00 AM-10.25 AM Title: Recent Developments in Non-Gaussian Autoregressive Time Series Modeling 6S1I2: **Rituparna Sen** (*ISI Bangalore, India*) Time: 10.25 AM-10.50 AM Title: Bayesian Testing of Granger Causality in Functional Time Series	**6S4** **Survival Analysis** Chair: **P. G. Sankaran** 6S4C1: **Janani Amirtharaj** (*SDNB Vaishnav College for Women, Chennai, India*) Time: 10.00 AM-10.15 AM Title: Application of COM-Poisson Cure Rate Model With Generalized Lifetimes to Some Interval Censored Data 6S4C2: **Soorya C. S.** (*CUSAT, India*) Time: 10.15 AM-10.30 AM Title: Transmuted Cure Models - A Competing Risk Perspective 6S4C3: **Ashlin Mathew P. M.** (*St. Thomas' College (Autonomous), Thrissur, India*)	**6S7** **Probability Models** Chair: **R. Vishnu Vardhan** 6S7C1: **Seema Chettri** (*North Eastern Hill University, Shillong, India*) Time: 10.00 AM-10.15 AM Title: Weighted Version of Alpha Power Modified Weibull Distribution With Application 6S7C2: **Shameera T.** (*MES Mampad College, Kerala, India*) Time: 10.15 AM-10.30 AM Title: Unit Inverse Weibull Distribution, Its Properties and Application 6S7C3: **Rakhi Ramachandran** (*University of Kerala, India*)	**6E2-ISPS Endowment talk** **Y.C. Narasimhulu Endowment Lecture** Chair: **Pushpa Wijikoon** Speaker: **M. Manoharan** (*University of Calicut, India*) Time: 10.00 AM-10.30 AM Title: Time-Varying Approximations in Generalised Queueing Networks **6S10** **Inventory Models** Chair: **Ayan Pal** 6S10C1: **Maruti Ramrao Bhosale** (*Savitribai Phule Pune University, India*) Time: 10.30 AM-10.45 AM Title: Inventory Models for Fresh Cow Milk Vendor With Age Dependent Demand Rate	**6S13** **Applied Statistics** Chair: **Anjana S.** 6S13C1: **Nishad N.** (*SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu, India*) Time: 10.00 AM-10.15 AM Title: The Performance of Chi-Square and F Distribution on Phase I and Phase II of Hotelling's T^2 Control Chart 6S13C2: **Amjish P. B.** (*University of Calicut, India*) Time: 10.15 AM-10.30 AM Title: On an Increasing Generalized Failure Rate Distribution and Its Applications 6S13C3: **Joshy C. G.**

		Time: 10.30 AM-10.45 AM Title: A Nonparametric Test for Independence of Time to Recurrence and Modes of Recurrence for Panel Count Data	Time: 10.30 AM-10.45 AM Title: A Zero-Inflated Poisson Distribution of Order k and Its Applications 6S7C4: **Varghese George** (*St.Stephen's College, Kollam, India*) Time: 10.45 AM-11.00 AM Title: Extropy Properties of Ranked Set Sample for Morgenstern Family of Distributions	6S10C2: **Narendra Kumar Sahoo** (*S. S. S. Mahavidyalaya, Dhenkanal, India*) Time: 10.45 AM-11.00 AM Title: A Green Deteriorating Inventory Model With Effect of Preservation Technology Investment and Carbon Taxation	(*ICAR - CIFT, Kochi, India*) Time: 10.30 AM-10.45 AM Title: Effect of Orthogonal Blocking on the Prediction Variance and D-Optimality of Second Order Response Surface Designs Under Correlated Errors 6S13C4: **Mohammed Shabeer A.** (University of Calicut, Kerala) Time: 10.45 AM-11.00 AM Title: Information Approach for Change-Point Detection of Gompertz Distribution

10.50 AM-11.05 AM: TEA BREAK

| 11.05 AM-01.05 PM | **6E1-ISPS Endowment talk**
R. Ravanan Endowment Lecture
Chair: **Biswabrata Pradhan**

Speaker: **David D. Hanagal**
(*Savitribai Phule Pune University, India*)
Time: 11.05 AM-11.35 AM

Title: Correlated Compound Poisson Frailty Models Based on Reversed Hazard Rate

6S2
Applications of Regression Techniques
Chair: **Sunoj S. M.**

6S2I1: **R. L. Shinde**
(*Kavayitri Bahinabai Chaudhari* | **6S5**
Applied Statistics

Chair: **Santanu Dutta**

6S5I1: **Jai Kishun**
(*Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow, India*)
Time: 11.05 AM-11.30 AM
Title: Prevalence and Risk Factors of the Composite Index Anthropometric Failure Among Children Under Five Years of Age in Uttar Pradesh, India.

6S5C1: **Hariom Pachori**
(*Central Institute of Psychiatry, Ranchi, India*)
Time: 11.30 AM-11.45 AM
Title: Disparities in Mental Health Services Utilisation Across Caste | **6S8**
Distribution Theory

Chair: **Girish Babu M.**

6S8I1: **Irshad M. R.**
(*CUSAT, India*)
Time: 11.05 AM-11.30 AM
Title: On Bivariate Moment Exponential Distribution and Its Inferences Based on Ranked Set Sampling

6S8C1: **Tanmay Sahoo**
(*IIT Jodhpur, India*)
Time: 11.30 AM-11.45 AM
Title: Multivariate Stochastic Comparisons of Ordered Random Vectors Governed by the Archimedean Copula

6S8C2: **Durga Vasudevan** | **6E3, 6E4, 6E5-ISPS Endowment talks**
G. Sankaranarayanan Endowment Lecture
Chair: **A. Krishnamoorthy**

Speaker: **P. R. Vittal**
(*Vivekananda College, Chennai, India*)
Time: 11.05 AM-11.35 AM
Title: Stochastic Dynamics and Passage Times for Diffusion Approximations

Speaker: **Viswanath C. Narayanan**
(*Govt. Engineering. College, Thrissur, India*)
Time: 11.35 AM-12.05 PM
Title: Transient Solution of Continuous Time Markov Chains | **6S14**
Stochastic Modeling

Chair: **Princy T.**

6S14I1: **M. Venkateswaran**
(*The Madura College (Autonomous), Madurai, India*)
Time: 11.05 AM-11.30 AM
Title: Stochastic Modeling Approach in DAM Models

6S14C1: **Ganga N.**
(*Bharathiar University, Coimbatore, India*)
Time: 11.30 AM-11.45 AM
Title: Lot Acceptance Sampling With Life Testing Procedures Using Exponential-Geometric Distribution |

North Maharashtra University, India) Time: 11.35 AM-12.00 PM Title: Women's Health Index for Indian Women Based on NFHS-4 and NFHS-5 **6S2C1: Siva G.** (*Christ (Deemed to be University), Bengaluru, India*) Time: 12.00 PM-12.15 PM Title: Partial Area Estimation of ROC Curves in the Presence of Measurement Errors **6S2C2: Jouhara P. N.** (*Farook College (Autonomous),Kozhikode, India*) Time: 12.15 PM-12.30 PM Title: Item Response Theory: A Tool for Ability Assessment **6S2C3: Jinse Jacob** (*SRM Institute of Science and Technology, Tamil Nadu, India*) Time: 12.30 PM-12.45 PM Title: Trimmed Variance Inflation Factor: An Alternative Collinearity Diagnostic Tool for Contaminated Data **6S2C4: Shirke Shrinivas Vijay** (*Savitribai Phule Pune University, India*) Time: 12.45 PM-01.00 PM Title: Spatial Probabilistic Frontier Regression Models for Panel Count Data	and Gender: A Statistical Study from Central Institute of Psychiatry, Ranchi **6S5C2: Archi Roy** (*IISER Pune, India*) Time: 11.45 AM-12.00 PM Title: Impact of COVID- 19 on Public Social Life and Mental Health: A Statistical Study of Google Trends Data From the USA **6S5C3: Krupa Jinsa Jigy** (*Christ (Deemed to be University), Bengaluru, India*) Time: 12.00 PM-12.15 PM Title: Factor Affecting Under-Five Child Mortality in Uttar Pradesh and Bihar – A Survival Analysis Approach **6S5C4: Thanseeha Nargees Punnakkal** (*Kannur University, India*) Time: 12.15 PM-12.30 PM Title: On Beta Regression and Its Applications in Biomedical Research **6S5C5: Kapil Choudhary** (*ICAR-IASRI, New Delhi, India*) Time: 12.30 PM-12.45 PM Title: An Improved Ensemble Empirical Mode Decomposition Based Hybrid Approach for Agricultural Commodities Price Forecasting	(*CUSAT, India*) Time: 11.45 AM-12.00 PM Title: Further Results on the Bivariate Semi-parametric Singular Family of Distributions **6S8C3: Sreelaya K** (*Kannur University, India*) Time: 12.00 PM-12.15 PM Title: A Study on Finite Mixture Models and Mixture of Experts Models **6S8C4: Muhammed Ahammed E S** (*CUSAT, India*) Time: 12.15 PM-12.30 PM Title: Marshall-Olkin Bilal Distribution with Associated Minification Process and Acceptance Sampling Plans **6S8C5: Fatehi Yahya Yahya Eissa** (*Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, India*) Time: 12.30 PM-12.45 PM Title: A Novel Three-Parameter Lindley Distribution: Properties and Applications **6S8C6: Imliyangba** (*North Eastern Hill University, Shillong, India*) Time: 12.45 PM-01.00 PM Title: Circular Generalized Lindley Distribution	Using Homotopy Perturbation Method Speaker: **G. Arivarignan** (*Madurai Kamaraj University, India*) Time: 12.05 PM-12.35 PM Title: An Inventory Queuing System With General Service Time and Random Demands **6S11** **Probability and Stochastic Modeling** Chair: **Eldho Varghese** **6S11C1: Vijay Kumar** (*IIT Bombay, India*) Time:12.35 PM-12.50 PM Title: Probabilistic Interpretations of Nonclassic Adomian Polynomials **6S11C2: Mostafizar Khandakar** (*IIT Bombay, India*) Time:12.50 PM-01.05 PM Title: Generalized Counting Process: Its Non-Homogeneous and Time-Changed Versions	**6S14C2: Rahul** (Maharshi Dayanand University, *Rohtak, India*) Time: 11.45 AM-12.00 PM Title: Two-Way Analysis of Covariance Under Fuzzy Environment **6S14C3: Shiji K.** (*Sree Keralavarma College, Thrissur, India*) Time: 12.00 PM-12.15 PM Title: New Parameterization of Stochastic Conditional Range Models **6S14C4: Bhupen Kumar Baruah** (*JB College (Autonomous), Jorhat, India*) Time: 12.15 PM-12.30 PM Title: Irrigation Water Quality Index (IWQI): A Statistical Tool for Suitability Evaluation of Irrigation Water **6S14C5: B. Manjunatha** (*ICAR-IASRI, New Delhi, India*) Time: 12.30 PM-12.45 PM Title: Structurally Incomplete Row-Column Designs and Structurally Incomplete Balanced Bipartite Row-Column Designs **6S14C6: Sitanshu Shekhar Mishra** (*Salipur (Autonomous) College, Odisha, India*)

		6S5C6: **Anjali Babu** (*University of Calicut, India*) Time: 12.45-01.00 PM Title: Public Debt of Kerala and Associated Risk Analysis: An Econometric Study 6S5C7: **Kishor N. Raut** (*MGM Medical College, Mumbai, India*) Time: 01.00 PM-01.15 PM Title: Evaluation of Machine Learning and Artificial Intelligence Model on Influenzas like Illness Surveillance of Covid-19 Patient Visited in Fever OPD at Tertiary Care Hospital			Time: 12.45 PM-01.00 PM Title: A Note on Minimum Mean Square Error Composite Estimator 6S14C7: **Ahmed Lawal** (*Hassan Usman Katsina Polytechnic, Nigeria*) Time: 01.00 PM - 01.15 PM Title: Modeling Life Time Data With Lomax-Lindley Distribution
01.05 PM-02.15 PM: LUNCH BREAK				
02.15 PM-02.45 PM	**6P2** Chair: **Sangita Kulathinal** Speaker: **Roshan V. Joseph** (*Georgia Institute of Technology, USA*) Title: Optimal Methods for Data Splitting	–	–	–	
02.50 PM-04.00 PM	**6S3 Competing Risks Data Analysis** Chair: **K. Jayakumar** 6S3I1: **Ayan Pal** (*The University of Burdwan, West Bengal, India*) Time: 02.50 PM-03.15 PM	**6S6 Reliability Analysis** Chair: **S. K. Chauhan** 6S6C1: **Dileepkumar M.** (*University of Calicut, India*) Time: 02.50 PM-03.05 PM Title: Some Results of Auto-Relevation Transform in Reliability	**6S9 Distribution Theory and Its Applications** Chair: **Hariom Pachori** 6S9I1: **Girish Babu M.** (*CHMKM Govt Arts and Science College, Kozhikode, India*) Time: 02.50 PM-03.15 PM	**6S12 Stochastic Models** Chair: **V. S. Vaidyanathan** 6S12C1: **Vasili B. V. Nagarjuna** (*Vellore Institute of Technology, Andhra Pradesh, India*) Time: 02.50 PM-03.05 PM Title: Modified Kies Power Lomax	**6S15 Statistical Quality Control** Chair: **R. L. Shinde** 6S15I1: **R. Vishnu Vardhan** (*Pondicherry University, India*) Time: 02.50 PM-03.15 PM Title: Partial Area Estimation Under Multi-Class ROC Curve

Title: Mixture Model for Dependent Competing Risks Data and Application for Diabetic Retinopathy Treatment **6S3C1: Ajaykumar Motichand Rangoli** (*Karnatak University Dharwad, India*) Time: 03.15 PM-03.30 PM Title: Comparative Analysis of Competing Risks Models Using Covariates **6S3C2: Hari S.** (*CUSAT, India*) Time: 03.30 PM-03.45 PM Title: Non-Parametric Inference of Window-Observation Recurrent Event Data With Multiple Causes of Failure	Analysis **6S6C2: Naveen Nandal** (*M.D. University, Rohtak, India*) Time: 03.05 PM-03.20 PM Title: Reliability Analysis of Series-Parallel System With Augmentation and Deletion of Subsystems **6S6C3: Deepa K. R.** (*Maharaja's College, Enakulam, India*) Time: 03.20 PM-03.35 PM Title: Doubly Truncated Stress-Strength Reliability **6S6C4: Jadhav Abhijeet Bharamu** (*Karnatak University, Dharwad, India*) Time: 03.35 PM-03.50 PM Title: Reliability Assessment of Two-Component Series System Shock Model **6S6C5: Fathima Jafna** (*Farook College (Autonomous), Kozhikode, India*) Time: 03.50 PM-04.05 PM Title: Induced Garima Stochastic Volatility Models	Title: On Some Classes of Complementary Distributions and Their Properties **6S9C1: Diksha Das** (*North Eastern Hill University, Shillong, India*) Time: 03.15 PM-03.30 PM Title: On Weighted Discretized Fréchet-Weibull Distribution With Application **6S9C2: Bhanita Das** (*North Eastern Hill University, Shillong, India*) Time: 03.30 PM-03.45 PM Title: Discretized Version of Generalized Gompertz Distribution With Application to Real Life Data **6S9C3: Satheenthar A. S.** (*University of Kerala, India*) Time: 03.45 PM-04.00 PM Title: Extended Exponential Poisson Distribution: Properties and Applications	Distribution: Properties and Applications **6S12C2: Sajily V. S.** (*CUSAT, India*) Time: 03.05 PM-03.20 PM Title: Inference on the CREX and DCREX of Equilibrium Distribution of Order r Based on Lomax Distribution Under Progressively Type-II Censored Data **6S12C3: Dheeraj Goyal** (*IIT Jhodhpur, India*) Time: 03.20 PM-03.35 PM Title: On Properties of the Phase-Type Mixed Poisson Process and Its Applications to Reliability Shock Modeling **6S12C4: Rajani Parameshwara Agadi** (*Karnatak University, Dharwad, India*) Time: 03.35 PM-03.50 PM Title: Actuarial Applications of Mortality Models **6S12C5: Ashhara T. V.** (*Kannur University, India*) Time: 03.50 PM-04.05 PM Title: Reliability Estimation of Time Dependent Stress-Strength Model Using Discrete Phase Type Distribution	**6S15I2: V. Kaviyarasu** (*Bharathiar University, Coimbatore, India*) Time: 03.15 PM-03.40 PM Title: Product Quality Evaluation and Its Strategies in Smart Manufacturing **6S15C1: Anila P.** (*CUSAT, India*) Time: 03.40 PM-03.55 PM Title: Design of a Quick Switching System-3 for Percentile Life Under Log-Logistic Distribution **6S15C2: Chetan Malagavi** (*REVA University, Bengaluru, India*) Time: 03.55 PM-04.10 PM Title: Bayesian Estimation Procedure to Process Capability in Manufacturing _

04.00 PM-04.15 PM: TEA BREAK

04.15 PM-05.30 PM: ISPS VALEDICTORY SESSION