

PROGRAMME SCHEDULE

FOURTH INTERNATIONAL CONFERENCE ON STATISTICS FOR TWENTY-FIRST CENTURY-2018 [ICSTC-2018]

13-15 December 2018

13 December 2018

9.00 am - 10.00 am : Registration
10 am - 11.00 am : Inaugural Function
11.00 am - 11.30 am : Tea Break (High Tea)

Technical Session No. 1 (11.30 am - 12.15 pm)

Keynote Address 1

Late Prof. U S Nair Commemoration Session

Hall 1

	Chairman	Kartlos Kachiashvili
Talk No:	Name of Keynote Speaker	Title of the Presentation
1	Prof. Bovas Abraham	Transformation of Industrial Statistics over the years: A Historical Perspective

Technical Session No. 2 (12.15 pm - 1.00 pm)

Keynote Address 2

Hall 2

	Chairman	Bovas Abraham
Talk No:	Name of Keynote Speaker	Title of the Presentation
1	Prof. Ashis Sen Gupta	Statistical Learning for Big Data

Lunch Break : 1.00 pm - 2.00 pm

Technical Session No. 3A and 3B (2.00 pm - 3.30 pm)**Invited Sessions (Two Parallel Sessions)****Technical Session No. 3A (Hall 1)****Topic Invited Session****Session Organiser : Varghese George****Topic : Emerging Statistical Methods for Biomedical Research**

Session Chair		Varghese George
Talk No:	Name	Title of the Presentation
1	Ashis Sen Gupta	Statistical Learning for Big Bio Science Data
2	Daniel Linder	Synthetic Likelihood in Stochastic Kinetic Models
3	Jaya Satagopan	Data Sources for Statistics Research in Cancer Epidemiology Applications

Technical Session No. 3B (Hall 2)**Topic Invited Session****Session Organiser : B Rajeev****Topic : Stochastic Partial Differential Equations**

Session Chair		B Rajeev
Talk No:	Name	Title of the Presentation
1	Barun Sarkar	Stochastic PDES In S for SDES Driven by Levy Noise
2	Manil T. Mohan	Ergodicity for the 3D Stochastic Navier-Stokes Equations Perturbed by Levy Noise
3	Suprio Bhar	Mild Solutions for Stochastic PDEs in infinite dimensions

Tea Break : 3.30 pm - 3.45 pm

Technical Session No. 4A and 4B (3.45 pm - 5.15 pm)**Invited Sessions (Two Parallel Sessions)****Technical Session No. 4A (Hall 1)****Topic Invited Session****Session Organiser : Ashokan Variyath Mulayath****Topic : Industrial Statistics**

Session Chair		Ashis Sen Gupta
Talk No:	Name	Title of the Presentation
1	Ashok Sarkar	Measurement Error and its Effect on Quality Evaluation
2	Ashokan Mulayath Variyath	Robust Multivariate Control Charts
3	Joby K Jose	Bayesian Estimation of M/M/1 Queue Characteristics using Bivariate Gamma Prior

Technical Session No. 4B (Hall 2)**Topic Invited Session****Session Organiser : Jaya Satagopan****Topic : Cancer Biostatistics**

Session Chair		Jaya Satagopan
Talk No:	Name	Title of the Presentation
1	Aleyamma Mathew	Transition of Cancer in Populations in India
2	Mariza de Andrade	Different Approaches to Analyze Data in Cancer from Epidemics to Omics
3	Sujata Patil	Competing Risks in Cancer Research: Applications and Areas of Investigation

Technical Session No. 5A, 5B and 5C (5.15 pm - 6.15 pm)
Contributory Session (Three Parallel Sessions)

Technical Session No. 5A (Hall 1)

Contributory Session

Topic : Biostatistics

Session Chair		Daniel Linder
Talk No:	Name	Title of the Presentation
1	Arunima S Kannan	A Study on the Role of the Parameters of Rayleigh Distribution in Understanding the Properties of ROC Curve
2	Bindu Krishnan	A Generalization of Frchet Distribution: Properties and Applications
3	Dashina P	Estimation of AUC of MROC Curve with Time-Dependent Modelling
4	Jomy Jose	Statistical power to statistical assurance to support decision making in drug development
5	Nisha George	Use of Bayesian approach in Early stage of Drug Development

Technical Session No. 5B (Hall 2)

Contributory Session

Topic : Reliability

Session Chair		Ashokan Variyath Mulayath
Talk No:	Name	Title of the Presentation
1	Anne Philip	Estimating a Scale Parameter of the extended Farlie-Gumbel-Morgenstern Bivariate Log-Logistic Distribution by Ranked Set Sampling
2	Bindu Punnathuparambathu	A new family of skew Reflected Transmuted Weibull Distribution and its Applications
3	Irshad M R	Estimation of Parameters of Morgenstern Family of Distributions with Some Prior Information
4	Sajeevkumar N K	Estimating the mean of the Rayleigh distribution with known coefficient of variation using order statistics
5	Sameen Naqvi	Ordering Results for Individual Risk Model with Dependent Location-Scale Claim Severities

Technical Session No. 5C (Hall 3)**Contributory Session****Topic : Reliability**

Session Chair		Aleyamma Mathew
Talk No:	Name	Title of the Presentation
1	Baby A.K	Non-parametric estimation of copula based mutual information
2	Chacko V M	Continuous Universal Generating Function and its applications to Stress Strength Reliability Analysis
3	Prasad S.	Additive Hazards Regression Model for Middle Censored Exponentiated-Exponential Lifetime Data
4	Preetha Kumari P V	Proportional Reversed Hazards rates model with Quantile Regression
5	Rejani P P	Modeling and analysis of Proportional Hazards Competing risk Cure rate Model

6.45 pm - 7.30 pm : Cultural Programme
7.30pm - 8.30pm : Dinner

14 December 2018 (Friday)

Technical Session No. 6 (9.30 am - 10.15 am)

Keynote Address 3

Late Prof. R N Pillai Commemoration Session

Chairman	P Yageen Thomas	
Talk No:	Name of Keynote Speaker	Title of the Presentation
1	Kartlos Kachiashvili	Constrained Bayesian Method Guarantying Restrictions of Directional False Discovery Rates on the Desired Level at Testing Directional Hypothesis

Technical Session No. 7A, 7B and 7C (10.15 am - 11.15 am)

Invited Sessions (Three Parallel Sessions)

Technical Session No. 7A (Hall 1)

Invited Session

Session Chair	E V Gijo	
Talk No:	Name	Title of the Presentation
1	N Balakrishna	Time series with Birnbaum-Saunders Marginal Distributions
2	K K Jose	Recent Developments in Autoregressive Time Series Modeling and Applications

Technical Session No. 7B (Hall 2)

Invited Session

Session Chair	Ramji Tiwari	
Talk No:	Name	Title of the Presentation
1	Satheesh S	On the Marginal Distribution of an AR(1) Model
2	B Re. Victorbabu	Slope Rotatability for Second Order Response Surface Designs- An Overview

Technical Session No. 7C (Hall 3)**Invited Session****Late Prof. Aleyamma George Commemoration Session****Organizer : V M Sreedevi Menon****Topic : Applications of Statistics - Industrial Perspective**

Session Chair		K Kalyanaraman
Talk No:	Name	Title of the Presentation
1	Crystel Babu	Vehicle Damage Detection using Advanced Statistical and Machine Learning Techniques
2	Krishnakumar K P	Principle Coordinate Analysis: A graphical comparison using, R and Python for a Microbiome case study

Tea Break : 11.15 am - 11.30 am**Technical Session No. 8A, 8B and 8C (11.30 am - 1.30 pm)****Invited Sessions (Three Parallel Sessions)****Technical Session No. 8A (Hall 1)****Invited Session****Organizer : E V Gijo****Topic : Statistical Applications in Business**

Session Chair		N Balakrishna
Talk No:	Name	Title of the Presentation
1	E V Gijo	Application of Six Sigma Methodology in Insulator Manufacturing Industry
2	P K Perumallu	Reliability Estimation From Design to Service
3	Shreeranga Bhat	Productivity enhancement in a Plastic Industry: Application of Statistical Techniques
4	Vinayambika S. Bhat	Application of Statistical Technique for Robust Control Engineering

Technical Session No. 8B (Hall 2)**Invited Session**

Session Chair		B Re. Victor Babu
Talk No:	Name	Title of the Presentation
1	Kaviyarasu V	Testing Statistical Procedures in Reliability Sampling Plan using Weibull Poisson Distribution
2	Manoj Tiwari	An Alternative Derivation and Instrumental Variable Interpretation of k - Matrix Class Estimators
3	S M Sunoj	Reliability Modelling with Residual and Past Lifetime Entropy Measures
4	P Yageen Thomas	On Some New Classes of Muted Bivariate Distributions

Technical Session No. 8C (Hall 3)**Invited Session**

Session Chair		K K Jose
Talk No:	Name	Title of the Presentation
1	K Jayakumar	Discrete Weibull Distribution: Generalizations and Applications
2	K Kalyanaraman	On the Use of Probability Models in Deep Learning
3	Ramji Tiwari	Should the Momentless Estimators in Simultaneous Equations Models be Discarded?
4	K K Suresh	Application of Statistical Models in Industrial Product Control

Lunch Break : 1.30 pm - 2.30 pm

Technical Session No. 9 (2.30 pm - 3.45 pm)**Special Session to Honor of Professor A M Mathai****Session Organiser : C Satheesh Kumar****Ph.D Thesis Presentation Competition****(Prof. T S K Moothathu Young statistician Award)**

Chairman	Varghese George	
Talk No:	Name	Title of the Presentation
1	Anne Philip	On Concomitants of Ordered Random Variables Arising from Farlie-Gumbel-Morgenstern Distribution and its Generalized Forms
2	Sameen Naqvi	A Study on Stochastic Properties of Mixture Models
3	Santhosh Shashikant Sutar	Modelling and Analysis of Load Sharing Phenomenon

Tea Break : 3.45 pm - 4.00 pm**Technical Session No. 10A, 10B, and 10C (4.00 pm - 6.00 pm)****Contributory Sessions (Three Parallel Sessions)****Technical Session No. 10A (Hall 1)****Late Prof. T K S Unnithan Commemoration Session****Topic : Distribution Theory**

Session Chair	Satheesh S	
Talk No:	Name	Title of the Presentation
1	Albin Paul	Harris Generalized Rayleigh Distribution and its Application in the Reliability Test Plan
2	S H S Dharmaja	A New Generalization to the Kies Distribution
3	Jiju Gillarirose	On A Generalization Of Rayleigh Distribution And Its Properties
4	Jisha Varghese	Kumaraswamy Harris Extended Kumaraswamy distribution and its Application in Financial Modeling
5	Meenu Jose	A Review Study on T-X Family of Distributions
6	K V Reshmi	Bivariate Extension of Past Entropy
7	Santhosh Sutar	Lindley-Weibull Distribution: Properties and Application

Technical Session No. 10B (Hall 2)**Contributory Session****Topic : Statistical Quality Control and Design**

Session Chair		K Jayakumar
Talk No:	Name	Title of the Presentation
1	Azarudheen S	Combined Continuous Lot-by-Lot Sampling Plan with Single Sampling Plan as Reference Plan under the Conditions of Zero-Inflated Poisson Distribution
2	Chiranjeevi P	On Measure of Slope Rotatability for Second Order Response Surface Designs using Balanced Incomplete Block Designs
3	Devika V	Evaluation of Repetitive Group Sampling Plan through Generalized Poisson Based Minimum Angle Method
4	Girish Babu	A new generalization of discrete Weibull distribution
5	Jayasree Pandey	Supply Chain Inventory Model for Deteriorating Items with Exponential Demand for Single Vender Two Buyers
6	Joshy C G	Blocked D-Optimal Second Order Response Surface Designs under Auto-Correlated Errors
7	Neena Krishna P K	Construction and Selection of Modified Two Level Skip-Lot Sampling Plan Indexed through Quality Decision Regions
8	Sivakumar P	Designing of Bayesian Repetitive Group sampling plan involving minimum sum of risk using Gamma-Zero Inflated Poisson distribution
9	Raghavendra Swamy K	An Empirical Study on Second Order Rotatable Designs under Tri-Diagonal Correlated Structure of Errors using a Pair of Symmetrical Unequal Block Arrangements with two Unequal Block Sizes

Technical Session No. 10C (Hall 3)**Contributory Session****Topic: Applied Statistics and Reliability Theory**

Session Chair		K K Suresh / Kaviyarasu
Talk No:	Name	Title of the Presentation
1	Dhanya Nair R	On Failure Extropy
2	Dileep Kumar M	Proportional Odds Model - A Quantile Approach
3	Navas Jalaludeen	What drives the CRAR of Indian banks? Evidence from a cross section of banks.
4	Nayana B M	Statistical Data Modeling of Environmental Pollutants with Special Reference to Different Places of Punjab State
5	Pratiksha Shinde	Modelling rainfall in different rainy Nakshatras: A Markov chain approach
6	Rohini S Nair	Weighted Cumulating Residual Entropy for Conditionally Specified Models
7	Selvakumar	A Distributed Development model in open source software for software reliability growth
8	Sophia P Thomas	A Generalization of Kumaraswamy Distribution and its Applications in Industrial Reliability
9	Soorya C S	A New Class of Defective Distribution to Model Long-term Survivors
10	Vipin N	Role of Copula Based Upper Partial Moments in the Context of Stochastic Modelling

15 December 2018

Technical Session No. 11A, 11B and 11C (9.30 am - 10.30 am)

Invited Sessions (Three Parallel Sessions)

Technical Session No. 11A (Hall 1)

Invited Session

Late Prof. R Krishna Pillai Commemoration Session

Session Chair		G Raveendran
Talk No:	Name	Title of the Presentation
1	A Rajarathinam	Construction of Un-Equally Replicated Pairwise Balanced Design with Repeated Blocks
2	C Satheesh Kumar	On Generalized Logistic Models and Their Applications

Technical Session No. 11B (Hall 2)

Invited Session

Late Prof. Jacob Sundara Raja Commemoration Session

Session Chair		C Lesitha
Talk No:	Name	Title of the Presentation
1	E I Abdul Sathar	Survival and Failure Entropy in the Context of Weighted Models
2	Manoj Chacko	Inference on $P(X < Y)$ Based on Bivariate Ranked Set Sample

Technical Session No. 11C (Hall 3)

Invited Session

Late Prof. J Rajasekharan Nair Commemoration Session

Session Chair		Vrinda Devi Thampuran
Talk No:	Name	Title of the Presentation
1	Jagathnath Krishna K.M	Estimation of Cancer Burden among Women: Kullback- Leibler Divergence Approach
2	Preethi Sara George	Time Trend Analysis of Lung Cancer Worldwide: Using Age Period Cohort Model

Tea Break : 10.30 am - 10.45 am

Technical Session No. 12A, 12B, and 12C (10.45 am - 1.00 pm)
Contributory Sessions (Three Parallel Sessions)

Technical Session No. 12A (Hall 1)

Contributory Session
Topic : Distribution Theory

Session Chair		C Satheesh Kumar/ M Somasekharan Pillai
Talk No:	Name	Title of the Presentation
1	G V Anila	On Some Properties of Asymmetric Curved Normal Distribution
2	Arathy S	On a General Class of Laplace Distribution
3	Jino Nainan	Some Results in Two-Piece Normal and Two-Piece Logistic Distributions
4	Rosmi Jose	On a Two-Tailed Lindley Distribution
5	Sankaran K K	On a Generalization of Inverse Weibull Distribution
6	Subha R Nair	On the Estimation of an Exponentiated Version of the Log-Inverse Weibull Distribution
7	Sreeja Kumari	On intervened generalized Negative Binomial Distribution

Technical Session No. 12B (Hall 2)

Contributory Session
Topic : Estimation

Session Chair		A Rajarathinam
Talk No:	Name	Title of the Presentation
1	Anjana V	Estimation of Scale Parameter of Logistic Distribution Based on Selective Statistics
2	Jitto Jose	Residual Extropy of K-Records
3	M. Laji	Estimation and Prediction based on K-Record Values from Generalized Lindley Distribution
4	Rakhi Mohan	Bayesian Inference for Weibull Distribution based on Progressive Type II Censored Competing Risks Data with Binomial Removals
5	G S Sathyareji	Estimation of Dynamic Cumulating Past Entropy for Power Function Distribution under Progressive type II Right Censored

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Talk No:	Name	Title of the Presentation
6	Shiny Mathew	Inference on $P(Y < X)$ based on Ranked Set Sample for the Class of Kumaraswamy Generalized Distribution
7	Sreelakshmi S	Parameter Estimation of Modified Weibull Geometric Distribution Using Progressively Type II Censored Sample
8	Viswakala K V	Estimation of Weighed Inaccuracy Measure for Censored Dependent Data

Technical Session No. 12C (Hall 3)

**Contributory Session
Topic: Distribution Theory**

Session Chair		P Mohanachandran Nair
Talk No:	Name	Title of the Presentation
1	Anusree M R	On the Likelihood Ordering and Tale Behaviour of Certain Classes of Skew Normal Distributions
2	Emil Ninan	An Intervened Version of Extended Alternative Hyper- Poisson Distribution and its Properties
3	Harishankar S	An Alternative to Generalized Yule Distribution
4	Manju L	Gamma Generalized Logistic Distribution; Properties and Applications
5	Nayana S	On Some Aspects of A Conway Maxwell Poisson Distribution
6	Rakhi Ramachandran	Some Properties of the Zero-Inflated Hermite Distributions and its Generalization
7	A Riyaz	On Modified Alpha-Logarithmic Series Distribution
8	Satheenthara A S	A Generalization of Exponential Hyper-Poisson Distribution

Valedictory Function : 1.00 pm - 1.15 pm
Lunch : 1.15 pm - 2.15 pm