SECTION	MATHEMATICAL SCIENCES (including STATISTICS)
Sectional President	Prof. Ashis SenGupta, Indian Statistical Institute, Kolkata
Local Sectional Secretary	Dr. Binod Kumar Sahoo, NISER, Bhubaneswar
Sectional Recorder	Dr. S. Ahmad Ali, B B D NIT & M, Lucknow
	January 04, 2012
Venue : Campus-3, Hall	C11, KIIT University
14:00-17:30	,
Presidential Address	Ashis SenGupta, ISI, Kolkata Directional Statistics: Meeting Challenges from Multidisciplinary
Special Invited Lecture	Research S.P. Mukherjee, IAPQR, Kolkata Modelling - an Integral Input for Inferenceing
Platinum Jubilee Lecture	Rahul Mukerjee, IIM, Kolkata Probability Matching Priors for Empirical and Related Likelihoods
Young Scientist Award presentations	Dilip Kumar, Centre for Mathematical Sciences, Pala Pathway Model and Its Application in Reaction Rate Theory in Astrophysics and Applied Analysis
	S. Kayal ¹ and S. Kumar ² , ¹ IIT Bombay, ² IIT Kharagpur Estimating Entropy of Several Exponential Populations with Common Location and Unknown Scales
	Special Invited lectures IL-1
Venue: Campus-3, Hall	C11, KIIT University
	J.V. Deshpande, IIT Bombay Bounds for Reliability and Mean Life of Coherent Systems of Positively Ageing Components
	S.B. Nimse, SRTM University, Nanded History of Set Theory and Its Extensions in the Context of Soft Computing
Inv Venue : Campus-3, Hall	vited Sessions (IS-S1)-Financial Data Analysis I C10. KIIT University
	Samarjit Das ISI, Kolkata Is the Relative Risk Aversion Parameter Constant Over Time? A Multi-country Study
	K.K. Jose, Kanichukattu Mahatma Gandhi University, Pala On Autoregressive Processes and Financial Modelling: Recent

	Developments and challenges
	U.V. Naik, Nimbalkar University of Pune, Pune Copula-Based Autoregressive Conditional Duration Models
	T.V. Ramanathan, University of Pune, Pune Time Varying Conditional Heteroscedastic Models: Some Recent
	Developments
I	nvited Sessions (IS-S2) Management Science
Venue: Campus-3, I	Hall C12, KIIT University
	R. B. Barman, Ex-Reserve Bank of India, Mumbai Asset-Liability Management in Indian Banking: A Brief Overview
	Arnab K. Laha, IIM, Ahmadabad Quantitative Explorations of Indian Stock Markets
	Ganapati Panda, IIT, Bhubaneswar Application of Intelligent Techniques to Management Science
	Rudra P. Pradhan, IIT, Kharagpur
	Unit Roots and Structural Break Points in India's Finance-Growth Nexus
	SECTIONAL COMMITTEE ELECTION

January 05, 2012	
14:00-17:30	
Symposium: Directional Statistics in Interdisciplinary Research for Addressing National Challenges	
Special Invited lect	ures IL-2
Venue : Campus-3,	Hall C11, KIIT University
	Keh-Shin Lii, University of California, Riverside, USA
	Stochastic Process with Almost Periodic Structure
	A.M. Mathai, McGill University, Canada
	Optimization of Entropy in Matrix-variate Case and Pathway Idea
Invited Sessions (IS	5-S3) Directional and Economic Statistics
Venue: Campus-3,	Hall C10, KIIT University

Gopal Krishna Basak, Mrinal K. Ghosh and Diganta Mukherjee, ISI, Kolkata

Can the Big Traders InfluenceStock Market?

H.V. Kulkarni¹ and D.N. Kalange^{2, 1}Shivaji University, Kolhapur, ²A.C.S College, Sangli

Skewed Bivariate von Mises Distribution

A.V. Dattatreya Rao¹, S.V.S.Girija² and Y. Phani^{3, 1}Acharya Nagarjuna University, Guntur, ²Hindu College, Guntur, ³Swarnandhra College of Engineering and Technology, Narasapur

A Note on Stereographic Weibull Model

Xiangdong Long¹ Liangjun Su² and Aman Ullah^{3, 1} Singapore Management University, Singapore, ²University of Cambridge, U.K., ³University of California, Riverside, USA *Estimation and Forecasting of Dynamic Conditional Covariance: A Semi-parametric Multivariate Model*

Invited Sessions (IS-S4) Distributions: Characterizations and Inference

Venue : Campus-3, Hall C12, KIIT University

Chandranath Pal¹ and Ashis SenGupta^{2, 1}Kalyani University, ²ISI, Kolkata On Optimal Tests for Multi-parameter Hypotheses in Possibly Multi-component Mixtures

PG Sankaran, CUSAT, Cochin

Total Time on Test Transforms

S. M. Sunoj, CUSAT, Cochin

Quantile Based Entropy Function

Baris Surucu, Middle East Technical University, Ankara

Turkey Goodness-of-Fit Tests for Univariate and Multivariate Distributions

Neeraj Tiwari and Girish Chandra, Kumaon University, Almora A Systematic Approach for Unequal Allocations under Ranked Set Sampling with Skew Distributions

Symposium: Mathematical Innovations with Real-life Applications for National Excellence

Invited Sessions (IS-M1) Space Dynamics

Venue : Campus-3, Hall C11, KIIT University

B. Ishwar, Bihar University, Muzaffarpur Nonlinear Stability in Generalized Photo-gravitational Restricted Three Body Problem

Badam Singh Kushvah, Indian School of Mines, Dhanbad *Periodic Orbits* in the Photogravitaional Chermnykh-Like Problem

Bijay K. Sharma, IIT, Patna

A Fractal / Primary-centric View of the Universe - A Post Copernican Conjecture

	J. Viswakrama, D.D.U. Gorakhpur University, Gorakhpur Piston-Driven Cylindrical Shock Wave in Self-Gravitating and Rotating Atmospheres with Heat Transfer Effects
Fulbright Presentation	S. Das, US-India Educational Foundation, New Delhi Fulbright Nehru Fellowship Opportunity to the U.S.
Oral Presentations (OM-A1)
	Hall C10, KIIT University
•	P. N. Agrawal and Karunesh Kumar Singh, IIT, Roorkee Degree of Approximation by Iterates of Post-Widder Operators
	Bhawani Rani Das , M.D.D.M College (B.R.A. Bihar University), Muzaffarpur
	Linear Oscillation of the Inter-Connected Satellite under the Perturbative Forces About the Position of Equilibrium for Small Eccentricity Near the
	Parametric Parametric
	Sumanta Kumar Das, DRDO, New Delhi Satellite Data Classification Using Fuzzy C means Clustering Combined
	Satellite Data Classification Using Fuzzy C means Clustering Combined with Fuzzy Supervised Classification
	Susil Kumar Jena, KIIT University, Bhubaneswar
	Method of Infinite Ascent Applied on $A^4 \pm nB^3 = C^2$
O 1D 44' (/	OM D1)
Oral Presentations (·
Venue : Campus-3, I	Hall C12, KIIT University
	¹ Rajeev Kishore Pandey and ² Arif Nadeem ¹ Dronacharya College of Engg., Gr. Noida, ² Bareilly College, Bareilly
	Re-Formulation of Logic Based Generalized Disjunctive Programming Problem
	Pushap Lata, Govt. College, Arki, Solan Thermal Instability of Walters'
	(Model B') Fluid Permeated with Suspended Particles in Porous Medium with Variable Gravity
	Bijay Kumar Mandal and Kumar Saurabh, Vidya Vihar Institute of Technology, Purnea Study of Gravitational Lensing Constraints on the Cardassian Model Based on the Friedmann Equation
	B. Mishra Birla Institute of Technology and Science-Pilani, Hyderabad Bianchi Type V False Vacuum Cosmological Model in Scale Invariant Theory
	Bani Mukherjee ¹ , Bijay Kumar Mandal ² and Kumar Saurabh ³ ¹ Indian School of Mines, Dhanbad, ² Indian School of Mines, Dhanbad, ³ V. V. I. T., Purnea Numerical Study of Gravitational Lansing Focusing on the Differential
	Probability, Total Optical Depth and Distribution of Image Angular

	Separations
Oral Presentation (C	OS-1)
	Hall C11, KIIT University
	S. Bagh ¹ , S. Kerketta ² and R. Gartia ^{3 1,2} Ministry of Environment and Forests, ERO, Bhubaneswar, ³ Sambalpur University, Orissa <i>Effects of Meteorological Parameters on Ambient Air Quality Noise in and Around A Chromites Mining Complex – A Statistical Approach</i>
	Moinak Bhaduri, and Ashis SenGupta ISI, Kolkata On the Characterization of Maxent Density Functions under Non Shannon Entropies and Some Related Problems
	Monika Bhattacharjee and Ashis SenGupta ISI, Kolkata Entropy Measurement of Some Circular Probability Distributions and Study of the Inference Problems for These Measurements
	Samayita Bhattacharjee and Shreyan Ganguly St. Xavier's College, Kolkata Snakes and Ladders: The Markov Way
	Subarna Bhattacharjee and Satya K. Misra KIIT University, Bhubaneswar On Posbist Reliability Theory
	P.R. Dash and G. Mishra Utkal University, Bhubaneswar On Modified Exponential Estimators for Finite Population Mean in Double Sampling
	Ratul Datta, University of Calcutta, Kolkata A Statistical Analysis of Women Awareness
Poster Presentation (PS-1)	
Poster Presentation (PM1)	

January 06, 2012
Symposium: Mathematical Innovations with Real-life Applications for National Excellence
Special Invited lectures IL-3
14:00-17:30

Venue : Cami	ous-3, Hall C11, KIIT University
v chac v cam	Hira L. Koul, Michigan State University, USA
	Model Diagnostics in the Presence of Incomplete Observations
	G.P. Patil, Penn State University, USA
	Digital Governance and Surveillance Hotspot Geo-Informatics for Monitoring,
	Etiology, Early Warning and Sustainable Development with Applications to Natural and Environmental Resources
T '4 10 '	
	ons (IS-S5) Case Studies
Venue : Cam	pus-3, Hall C11, KIIT University
	L.V. Krishnan TAM Media Research Pvt. Ltd, Mumbai
	Transcending the Multicultural Indian Landscape with Technology &
	Measurement Science
	Pulakesh Maiti ISI, Kolkata
	Statistical Information System Developed for Local Level Planning with an
	Application to Two Blocks in the District of Howrah, West Bengal
	Barun Mukhopadhyay ISI, Kolkata
	Anthropometric Study of a Population in Kalimpong
	Manju Pandey BHU, Varanasi
	Ganga Water Quality in Varanasi Water Quality Index and ARIMA Model
	Premananda Bharati and Manoranjan Pal ISI, Kolkata
	Gender Inequality in the Average Consumption of Calories in India
	ons (IS-S6) Decision Theory
venue : Cam	pus-3, Hall C10, KIIT University
	Somesh Kumar IIT, Kharagpur
	Estimation of Restricted Parameters in Normal and Exponential Distributions
	A.K. Mahapatra ¹ , Somesh Kumar ² and P. Vellaisamy ³
	¹ ITER, Siksha O Anusandhan University, Bhubaneswar, ² IIT Kharagpur
	³ IIT Bombay
	Estimation of the Hazard Rates from Exponential Populations
2	Manas Ranjan Tripathy¹ and Somesh Kumar ¹NIT Rourkela, ² IIT Kharagpur
	Estimating the Common Mean and Quantiles of Two Normal Populations
	Yogesh Mani Tripathi ¹ , Somesh Kumar ² and C. Petropoulos ³¹ IIT, Patna
	² IIT, Kharagpur, ³ University of Patras, Rio, Greece
	Estimation of a Restricted Location Parameter of an Exponential Distribution
Invited Sessio	ons (IM-M2) Topics in Mathematics I
Venue : Camp	us-3, Hall C10, KIIT University
	U. C. De, Calcutta University, Kolkata
	c. c. be, calcula on versity, normala
	On Three Dimensional Trans-Sasakian Manifolds

	Pabitra Pal Choudhury, Souvik Naskar and Avishek Ghosh ISI, Kolkata Application of Integral Value Transformation in a Specialized Computer Network Design
	P.D. Srivastava and B.L. Panigrahi IIT, Kharagpur Spectrum and Fine Spectrum of Generalized Second Order Difference
	Operator $\Delta_{uvw}^2 \Delta_{uvw}^2 l_1 l_1$
Symposium: D National Chall	irectional Statistics in Interdisciplinary Research for Addressing enges
	ns (IS-S7) Measuring and Combining Indicators for Monitoring I Sustainability
	s-3, Hall C12, KIIT University
	Nilkanth Ghosh Ministry of Environment and Forests, Govt. of India, New Delhi
	Some Important Environmental Issues and Recent Governmental Initiatives in India
	SD Gore and Rajendra Gurao University of Pune, Pune Hotspot Detection Using Different Sampling Designs: A Comparative Study
	of Efficiency
	Arun K Sinha ¹ and Ashbindu Singh ² ¹ Patna University, Patna ² UNEP Division of Early Warning & Assessment, Washington, USA Human Environment Index
	Pankaj Srivastava ¹ and Arun K Sinha ²¹ Govt. of India, New Delhi ² Patna University, Patna
	Spatial Statistical Methods in Environmental Epidemiology
Invited Session	as (IS-S8) Sample Survey
	us-3, Hall C11, KIIT University
	Hukum Chandra IGSRI, New Delhi Semi-parametric Block Bootstrap Approach for Multilevel Data
	Arijit Chaudhuri ISI, Kolkata Analyzing Optional Randomized Response on Qualitative & Quantitative
	Variables Bearing Social Stigma
	Sanjay Chaudhuri National University of Singapore, Singapore Empirical Likelihood for Small Area Estimation
	Bikas Sinha ISI, Kolkata Estimation of the Size of a Finite Population
Invited Session	as (IS-S9) Official Statistics

Venue: Campus-3, Hall C10, KIIT University

Kuttykrishnan A. P. ,Kannur University, Kerala
Autoregressive Process Using Laplace Variables
Manoranjan Pal and Premananda Bharati ISI, Kolkata
Estimating Calorie-Poverty Rates Through Regression
R N Pandey, Ministry of Tourism, Government of India, New Delhi
Extent of Invisibility of Women in India in the Official Work-Force Estimates
Arni S.R. Srinivasa Rao ISI, Kolkata
Mathematical Models in National Policy Formulations
Ashok Sarkar ,ISI, Mumbai
Brand Trust Index-A Measure of Trust of Brands
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Oral Presentation (OM-A2)

Venue: Campus-3, Hall C11, KIIT University

Nilam ¹ and Manoj Kumar ²¹ Delhi Technological University, Delhi ² DRDO, New Delhi
Analytical and Numerical Analysis of Countercurrent Exchange Mechanism
in Renal Vasa Recta System
A.L. Pathak ¹ , K.K. Dixit ² and Aradhana Singh ³¹ Brahmanand College, Kanpu ² GIIT, Gwalior, ³ U.I.E.T., C.S.J.M.U. Kanpur
A New Class of K-Uniformly Convex Functions with Negative Coefficients
Associated with Fractional Operator
Swadheenanda Patnaik ¹ and Manasa Dash ²¹ Institute of Mathematics and Applications, Andharua, Bhubaneswar, ² Silicon Institute of Technology, Bhubaneswar
Reconstruction of the Functions on the Cylinder from Scattered Data with Noise
Dhaneshwar Prasad ¹ , S.S. Panda ² and S.V. Subrahmanyam ³ ¹ Dr. S.R.K. Govt. Arts College, Yanam, ² Regency Institute of Technology, Yanam
³ MVR College of Engineering & Technology, Vijayawada
Non-Newtonian Squeeze Film Lubrication of Journal Bearing with
Temperature Effect
A. Pushpalatha ¹ and R. Nithyakala ^{2, 1} Government Arts College Udumalpet Tirupur, ² Vidyasagar College of Arts and Science Udumalpet
Scg-Closed, Sc*G-Closed, Sc(S)G-Closed Sets in Topological Spaces
G. Rabbani and H. Ara Bariatu Sattar Colony, Ranchi
Mathematical Models in Medicines for Diabetes Patients in Terms of
Differential Equations

/ N	4-4' (OM D2)
	tation (OM-B2)
Venue : Cam	pus-3, Hall C10, KIIT University
	Anirban Roy Christ University, Bangalore
	Some Observations on Visibility of Lattice Point
	Rudraman, Gurukul Kangri University, Haridwar
	Analysis of Priority Queue Models of Discrete System in Queuing Theory
	S. B. Singh ¹ , Subodh Kumar ¹ and Vikram Kumar ²¹ A.M. College, Gaya
	² M.U. Bodh Gaya Ashok Nagar, Gaya
	Fixed Point Theorem for Compatible Mapping
	Ashwani K. Sinha, M. M. Mahila College, Ara
	Finite Difference Analysis of Dean's Stability Problem
	G.C. Tikkiwal ,JNVU, Jodhpur
	Classification of Random Doppler-Radar Targets During the Surveillance Operations
	Operations
Oral Presen	tation (OS-2)
Venue : Car	npus-3, Hall C12, KIIT University
	J.V. Sukanya Divvela and B.K. Sinha, ISI, Kolkata
	Price - Weighted Apportionment Index and Related Inference
	Rupak Gupta ¹ and Dulumoni Das ^{2,1} The ICFAI University, Agartala
	² Cotton College, Guwahati Status of Women in North Eastern States of India: A Comparative Statistical
	Analysis Analysis
	Anatysis
	Ranjana Kar, Statistics Rural Health and Training Center, Jagatsinhpur
	A Class of Statistical Models to Study Unmet Need for Family Planning
	Programme in Orissa, India
	P.S. Mahajan ,G. D. M Arts, K. R. N. Commerce and M.D. Science College,
	Jalgaon
	Mathematical Methods in Medical Image Processing
	V.K. Pathak, Govt. P. G. College, Dhamtari, Chhattisgarh
	Wind Mill System Having One Unit & Three Associative Units
	A.K. Paul , Samarendra Das and S.D. Wahi
	IASRI, New Delhi
	Comparative Performance of Oblique Axes, K Th Nearest Neighbour, Linear
	and Quadratic Discriminant Procedures Under Multivariate Skew-Normal
	Situations
	Bhim Singh and B.V.S., Sisodia College of Horticulture & Forestry, Jhalawar
	Application of Ratio-type Estimators for Small Area in Repeated Survey

Poster Presentation (PS-2)
Poster Presentation (PM-2)

	January 07, 2012
Symposium: Di National Challe	irectional Statistics in Interdisciplinary Research for Addressing enges
14:00-17:30	
Special Invited	Lectures IL-4
1	ıs-3, Hall C11, KIIT University
	T. Madhan Mohan
	Recent Perspectives in Bioinformatics
	Prem Narain, IASRI, New Delhi
	Linear Models in Genomic Studies
15:00-16:00	
Invited Session	s (IS-S10) Bioinformatics
	is-3, Hall C11, KIIT University
	G. Panda, IIT, Bhubaneswar
	Applications of Signal Processing Techniques to Bioinformatics
	R.C. Sobti, Punjab University, Chandigarh
	Systems Biology: A Multidisciplinary Approach
	H.J. Vaman, Central University of Rajasthan, Kishangarh
	On Testing the Transition Probability Matrix of a Multi-state Survival Model
	Invited Sessions (IS-S11) AstroStatistics
Venue · Camni	is-3, Hall C12, KIIT University
venue . Campe	Atanu Biswas ¹ , Asis K. Chattopadhyay ² and Tanuka Chattopadhyay ³¹ ISI,
	Kolkata, ^{2,3} Calcutta University, Kolkata
	Multivariate Mixed Linear-Circular Galaxy Data
	Munivariale Mixea Linear-Circular Galaxy Dala
	Asis K. Chattopadhyay, Calcutta University, Kolkata
	Independent Component Analysis and Clustering Related to Astronomical
	Data
	Tanuka Chattopadhyay, Calcutta University, Kolkata
	Study of Initial Function Through Markov Chain Carlo Simulation
	Ranjeev Misra, IUCAA, Pune
	The Need for Advanced Statistical Methods for Astronomical Time Series
	Analysis

M3) Topics in Mathematics-II Iall C10, KIIT University Tripti Chakrabarti Calcutta University, Kolkata
Tripti Chakrabarti Calcutta University, Kolkata
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Stochastic Inventory Models withMixture of Backorders Involving
Reducible Lead Time and Setup Cost with Budget Constraint
V.V. Haragopal, Osmania University, Hyderabad
mage Compression Using Fourier Coefficients
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