



National Conference on
Recent Trends and Developments in Statistics (NCR TDS)

(Feb. 21-23, 2015)

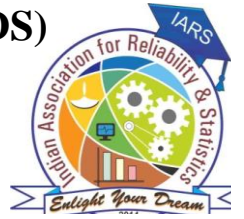
Organized by

Department of Statistics, M.D. University, Rohtak

In Conjunction with 1st Convention of

Indian Association for Reliability and Statistics (IARS)

Venue: Institute of Hotel and Tourism Management (IHTM)



PROGRAMME SCHEDULE

Date: 21-02-2015		
Time	Programme	Venue
08:30-10:15	Breakfast & Registration	IHTM
10:15-11:30	Inauguration	IHTM Conference Hall
11:30-12:00	High Tea	IHTM
12:00-12:45	Keynote Address Chair: Prof. Bhu Dev Sharma Speaker: Prof. Bikas Kumar Sinha, Visiting Research Professor, University of California – Los Angeles (UCLA), USA Title: Statistical Approach to Assessment of Agreement	Conference Hall
12:45-1:30	Plenary Talk (PT 04) Chair: Prof. David Hanagal Speaker: Prof. Ashis Sen Gupta, ISI, Kolkata Title: Directional Statistics for Meeting Challenges in Multidisciplinary Research	Conference Hall
1:30-2:30	Lunch	
2:30-3:15	Plenary Talk (PT 03) Chair: Prof. B.K. Sinha Speaker: Prof. P.K. Kapur, Amity University, Noida, UP, India Title: Quantitative Assessment of Software Reliability and Security Vulnerability (An Interface)	Conference Hall

3:15-4:15	Invited Speakers	IHTM
Session 1	Chair: Prof. A.K. Sinha Speakers: Prof. B.K. Hooda, CCSHAU, Hisar (IT 16) Title: Selection of Variables in Multivariate Analysis Prof. Sunil K Khatri, Amity University, Noida (IT39) Title: Software Reliability Growth Modeling using ANN Approach	Conference Hall
Session 2	Chair: Prof. S.K. Singh Speakers: Prof. Debasis Kundu, IIT Kanpur, India (IT 04) Title: Geometric Skew Normal Distribution Prof. Rahul Gupta, University of Jammu (IT23) Title: A Class of Sequential Procedures for Estimation and Selection Problems and its Applications in Reliability	Board Room
Session 3	Chair: Prof. S.K. Upadhyay Speakers: Prof. Rajendra Prasad, IASRI, New Delhi (IT 06) Title: Web Resources for Research and Dissemination in Statistical Sciences Prof. Kanchan Jain, PU, Chandigarh (IT 26) Title: A Weighted Version of Gamma Distribution	Smart Room
Invited Session	Invited Session – 3: Reliability Models Chair: Dr. Mukender Singh Organizer – Dr. Mangey Ram Speakers: <ul style="list-style-type: none"> • P. N. Bajeel and M. Kumar • K. C. Siju and M. Kumar • Nupur Goyal and Mangey Ram • Amit Kumar and Mangey Ram • Anju Dhall • Dharmvir Singh Vashisth and A.S.Gousia Banu 	LT
4:15-4:30	Tea	IHTM
4:30-6:00	Invited Speakers	IHTM
Session 4	Chair: Prof. C. Umashankar Speakers: Prof. S.K. Upadhyay, BHU, Varanasi (IT 09) Title: Choosing an Appropriate Model: A Bayesian Viewpoint Prof. Ashis Kumar Chakraborty, ISI, Kolkata (IT 01) Title: Normalization of Marks – A Statistical Problem? Prof. V K Tiwari, NIHF Welfare, New Delhi (IT 17) Title: Techniques and Applications of Operations Research in Health	Conference Hall
Session 5	Chair: Prof. B.K. Dass Speakers: Prof. Sangeeta Arora, PU, Chandigarh (IT 15) Title: Lorenz Curve and Related Orderings in Case of	Board Room

	<p>Power Function Distribution Prof. D.K. Khurana, IMI, New Delhi (IT 20) Title: Use of Optimization Techniques in Human Resource Planning with Special Reference to Markov Analysis Prof. Arun Kumar Sinha, CU, Patna (IT 07) Title: Ranked Set Sampling: Theory, Methods and Some Recent Applications</p>	
Session 6	<p>Chair: Prof. Debasis Kundu Speakers: Prof. Kalpana Mahajan, PU, Chandigarh (IT 12) Title: Bayesian Estimation of Inequality and Poverty indices in case of Pareto Distribution Prof. S.S. Handa, MRIU, Faridabad (IT 05) Title: Data Mining and Its Applications in Optimization Prof. S.S. Tyagi, MRIU, Faridabad (IT 38) Title: Cloud Computing: An Enterprise Perspective</p>	Smart Room
Session 7	<p>Chair: Prof. J.P. Singh Joorel Speakers: Prof. Amar Nath Gill, PU, Chandigarh (IT 18) Title: Simultaneous Inferences for Exponential Location Parameters under Unbalanced Data and Heteroscedasticity of Scale Parameters Dr. M.K. Soni, MRIU, Faridabad (IT 02) Title: Big Data Analytics Prof. Pulakesh Maiti, ISI, Kolkata (IT 21) Title: Interactive Linear Models in Survey Sampling</p>	LT
7:00-8:30	Cultural Programme	
8:30-9:30	Banquet Dinner	
	Date: 22-02-2015	
8:00-9:00	Breakfast & Registration	IHTM
9:00-10:30	Plenary Speakers	IHTM
	<p>Plenary Talk (PT 01) Chair: Prof. Bhudev Sharma Speaker: Prof. B.L.S. Prakasa Rao, Ex. Director, ISI, Kolkata Title: Big Data and High-Dimensional Data Analysis</p>	Conference Hall
	<p>Plenary Talk (PT 02) Chair: Prof. B.L.S. Prakasa Rao Speaker: Prof. Bhudev Sharma, Former Professor of Mathematics, Clark Atlanta University, Atlanta, GA, USA Title: Some Ideas on Mathematical Modeling, Random Number Generation & Computer Simulation</p>	Conference Hall
10:30-11:00	Tea	IHTM

11:00-12:30	Technical Sessions (Parallel)	IHTM
Technical Session	<p>T1: Sample Surveys and Design of Experiments (SSDE) Chair: Prof. H.S. Jhajj Speakers:</p> <ul style="list-style-type: none"> • Sarbjit Singh and S.C. Malik • Monika S. Barak & Ashish Kumar • Tanveer Ahmad Tarray and Housila P. Singh • Gurjeet Singh Walia and H.S. Jhajj • Sarita Rani and R.R. Laxmi • Davinder Kumar Garg and Syed Aadil Farooq • Shashi Bahl and Sangeeta • Ashu Chandel and P K Mahajan • Hilal A. Lone and Rajesh Tailor • Alpna Yadav • Anita and Shashi Bahl 	Conference Hall
Technical Session	<p>T2: Statistical Inference (SI) Chair: Prof. Kalpana Mahajan Speakers</p> <ul style="list-style-type: none"> • Bhupendra Singh • Shailendra kumar, S.K. Pandey and V.K. Sehgal • Shanubhogue, A. and Raykundaliya, D.P. • Hitendra P Dave • Rakesh Ranjan, Rahul Mishra & S.K. Upadhyay • Rijji Sen, Reema Sharma and S.K.Upadhyay • Akanksha Gupta and S.K. Upadhyay • Sumit Koul • Manoj Kumar, B.K. Hooda and Veena Manocha • Bilal Ahmad Bhat and Parmil Kumar • Vikas Joon, Veena Manocha and S.K. Goyal 	Board Room
Technical Session	<p>T9: Operations Research Chair: Prof. Rahul Gupta Speakers:</p> <ul style="list-style-type: none"> • K K Aggarwal and Sonal Aneja • Raosaheb V. Latpate • Adarsh Anand , Mohini Agarwal, Subhrata Das and P K Kapur • Adarsh Anand , Ompal Singh, Mohini Agarwal and Richie Aggarwal • Vijita Mishra and Shailendra Kumar • Meenu Singh, Sugandha Aggarwal, Arshia Kaul and P.C. Jha • Nomita Pachar, Jyoti Dhingra Darbari, Vernika Agarwal and PC Jha • Aditi Khanna, Mandeep Mittal, Perna Gautam and Chandra K. Jaggi • Chandra K. Jaggi, Amrina Kausar and Sunil Tiwari • Chandra K. Jaggi, Anuj Sharma and Sunil Tiwari 	Smart Room

Technical Session	T11: Applications of Statistics in Forensic Science Chair: Prof. Sangeeta Arora Speakers: <ul style="list-style-type: none"> • Amanpreet Kaur • Jatin Sharma • Ravinder Kaur and M.K. Thakar • Rajinder Singh and Jagmeet Kaur • Jagmeet Kaur and Rajinder Singh • Loveleen, Meesha Sharma and Nitika Singh 	LT
12:30-1:00	Invited Speakers (Parallel Sessions)	IHTM
Session 8	Chair: Prof. Amar Nath Gill Speaker: Prof. Rakesh Gupta, CCS University, Meerut (IT 22) Title: On Performance Measures of Discrete and Continuous Parametric Markov Chain	Conference Hall
Session 9	Chair: Prof. K. Muralidharan Speaker: Dr. Ajit Chaturvedi, University of Delhi (IT 30) Title: Shrinkage Estimators of the Reliability Characteristics of a Family of Lifetime Distributions	Board Room
Session 10	Chair: Prof. B.K. Dass Speaker: Prof. S.N. Dwivedi, AIIMS, New Delhi (IT 08) Title: Statistics in Assessment of Confounding and Effect Modification under Epidemiological Modelling	Smart Room
Session 11	Chair: Prof. S.L. Sananse Speaker: Dr. Davinder Kumar Garg, PU, Patiala (IT 34) Title: Construction of Partially Balanced Incomplete Block Designs using Factorial Treatment	LT
1:00-2:00	Lunch	
2:00-3:30	Technical Sessions (Parallel)	IHTM
Technical Session	T3: Multivariate Analysis and Econometrics (MAE) Chair: Prof. Pulakesh Maiti Speakers: <ul style="list-style-type: none"> • Madhulika Dube, Isha and Garima Malhotra • Rashmi Singh and M. Mathirajan • Bharti Juneja, Ashu Chandel and P K Mahajan • Ashish Kumar Shukla • Naresh Kumar and Ritu • Poonam Malik and S.C. Malik • Madhulika Dube and Rajni Vij 	Conference Hall
Technical Session	T6: Operations Research (OR) Chair: Prof. J.P. Singh Joorel Speakers: <ul style="list-style-type: none"> • H. P. Umap • Manmath Haridasrao Lohgaonkar • Jyoti Dhingra Darbari, Vernika Agarwal & PC Jha 	Board Room

	<ul style="list-style-type: none"> • Nandini Seth, Garima Madan, Vernika Agarwal and P. C. Jha • Nidhi Bhayana, Simranjeet Kaur and P.C. Jha • Mishtu Sharma, Jasika Singh, Reena Nupur and Kanika Gandhi • Riju Chaudhary, Pankaj Garg and P.C. Jha • Vernika Agarwal, Jyoti Dhingra Darbari & PC Jha • Anshu Gupta, Sugandha Aggarwal, Arshia Kaul and P.C. Jha • Arshia Kaul, Sugandha Aggarwal, Anshu Gupta and P.C. Jha 	
Technical Session	<p>T5: Information and Coding Theory (ICT) Chair: Dr. D.D. Pawar Speakers:</p> <ul style="list-style-type: none"> • Vikas Kumar and H. C. Taneja • R. H. Waliv and H. P. Umap • Vikas Kumar and Surendra Kumar • Priti Gupta and Abhishek Sheoran • Sheetal Chawla and Jagbir Singh • Priti Gupta, Santosh Kumari and R P Singh • Priti Gupta, Prince and Vijay Kumar • Omprakash Jadhav and V.H. Bajaj • C.B. Gupta and Sachin Kumar 	Smart Room
Invited Session	<p>Invited Talk Speaker: Dr. K.K. Aggarwal, University of Delhi, Delhi (IT 37) Title: Coordinating Inventory and Credit Granting Decisions</p> <p>Invited Session – 5: Reliability Models Chair: Dr. Ashish Kumar Organizer – Dr. Pawan Kumar, University of Jammu Speakers:</p> <ul style="list-style-type: none"> • Pawan Kumar • V.K. Shivgotra • Shivani Chowdhary and Pawan Kumar • Rahul Sharma and JP Singh Joorel • Sakshi Vaid and Pawan Kumar • Ram Niwas and M.S. Kadyan • Vipin Sharma 	LT
3:30-3:45	Tea	
3:45-4:15	Invited Speakers (Parallel Sessions)	IHTM
Session 12	<p>Chair: Prof. B.K. Dass Speaker: Dr. Ashok K. Singh, DST, Govt. of India Title: Research Opportunities in Mathematical Sciences</p>	Conference Hall

Session 13	Chair: Dr. Ajit Chaturvedi Speaker: Prof. C.K. Jaggi, University of Delhi, Delhi (IT 28) Title: Effect of Controllable Lead Time on Stochastic Inventory System	Board Room
Session 14	Chair: Prof. Ashok Shanubhogue Speaker: Prof. V.H. Bajaj, Aurangabad (IT 24) Title: Measuring Efficiency of Indian Banks Using DEA-AHP Approach	Smart Room
Session 15	Chair: Prof. S.K. Singh Speaker: Prof. C.B. Gupta, BITS, Pilani (IT 25) Title: Sterilization and Family Planning Program: A Case Study	LT
4:15-5:45	Invited Speakers	IHTM
Session 16	Chair: Prof. Ashok Shanubhogue Speakers: Prof. David D. Hanagal, University of Pune (IT 03) Title: Correlated Gamma Frailty Models for Bivariate Survival Data Prof. C. Uma Shankar, Tirupati, (IT 10) Title: Design, Modeling and Optimization of K-out-of-N Integrated Redundant Reliability System Prof. R.K. Gupta, YSPUHF, Solan (IT 31) Title: Stability Analysis of Resin Yield from Naturally Regenerated Pinus Roxburghii Sargent in Himachal Pradesh	Conference Hall
	Invited Sessions (Parallel)	IHTM
Invited Session	Invited Session – 2: Information Theory Chair: Dr. Vikas Kumar Organizer – Dr. Parmil Kumar, University of Jammu Speakers: <ul style="list-style-type: none"> • Parmil kumar and Devya Mahajan • Ankita Sharma and Parmil Kumar • Bhagwati Devi and Parmil Kumar • Devya Mahajan and Parmil Kumar • Kirandeep Kour and Parmil Kumar 	Board Room
Invited Session	Invited Session – 4: Applications of Statistics in Forensic Science Chair: Dr. Dheeraj Pawar Organizer – Dr. Jaswinder Singh, PU, Patiala Speakers: <ul style="list-style-type: none"> • Jaswinder Singh • Lovepreet Kaur • Praveen Kumar Yadav and Amanpreet Kaur • Renu kamal, Spriha Sharma and Praveen Kumar Yadav • Rohit Samhotra 	Smart Room

	<ul style="list-style-type: none"> • Yogesh Kumar and Navdeep Singh 	
Technical Session	<p>T13: Operations Research (OR) Chair: Dr. Rohtash Kumar Bhardwaj Speakers:</p> <ul style="list-style-type: none"> • Seema Gupta, K. N. Rajeshwari, P.C. Jha • Guneet Kaur, Sugandha Aggarwal and P.C. Jha • Kanika Gandhi and P. C. Jha • Kiran Garg and PC Jha • Kuldeep Chaudhary, Arshia Kaul and P.C. Jha • Ramandeep Kaur, Stuti Arora, Sushila Madan, P.C.Jha • Simranjeet Kaur, Nidhi Bhayana and P.C. Jha • Stuti Arora, Ramandeep Kaur, Sushila Madan,P.C.Jha • Sugandha Aggarwal Anshu Gupta , Arshia Kaul, P.C. Jha • Yogender Singh, Sugandha Aggarwal, Anshu Gupta and P.C. Jha • Aditi Sharma, Neha Agarwal, Kanika Gandhi and P.C. Jha 	LT
7:30-8:30	Dinner	
	Date: 23-02-2015	IHTM
8:00-9:00	Breakfast	
9:00-10:30	Invited Speakers (Parallel Sessions)	IHTM
Session 17	<p>Chair: Prof. Arun Kumar Sinha Speakers: Prof. K. Muralidharan, MSUB, Gujrat (IT 14) Title: Theory of inliers: Modeling and Applications Prof. H.S. Jhajj, PU, Patiala (IT 40) Title: Estimation of Population Parameters under Some Constraints in Survey Sampling Prof. J.P. Singh Joorel, University of Jammu (IT 27) Title: Stochastic Modeling of Repairable Systems with Possible Maintenance of Standby</p>	Conference Hall
Session 18	<p>Chair: Prof. K. Muralidharan Speakers: Prof. Sheela Mishra, University of Lucknow (IT 13) Title: Statistics from Gender perspective for Inclusive Development Dr. P.C. Jha, University of Delhi, Delhi (IT 29) Title: Fault-Tolerant Software System: An Overview and Future Directions Dr. R.J. Yadav, ICMR, Govt. of India, New Delhi</p>	Board Room
Session 19	<p>Chair: Prof. V.H. Bajaj Speakers: Prof. S.K. Singh, Pt. RSS University (IT 11) Title: On The Stochastic Modelling and Analysis of A Blooming and Billet Mill System of Blooming and Billet</p>	Smart Room

	<p>Mill Area of an Integrated Steel Plant Prof. Ashok Shanubhogue' Sardar P University (IT 19) Title: Reliability Estimation in a Generalized Life Model with Application to the Burr-XII under Progressive Type II censored data</p> <p>Prof. S. L. Sananse, Dr. BAMU, Aurangabad (IT 32) Title: Probability Distribution Model for Fitting and Estimation of Return Period of Annual and Monthly Rainfall</p>	
10:30-11:00	Tea	IHTM
11:00-12:00	Technical Sessions (Parallel)	IHTM
Technical Session	<p>T15: Stochastic Models Chair: Dr. R.K. Bhardwaj Speakers:</p> <ul style="list-style-type: none"> • R.K. Bhardwaj and R. Singh • Jyoti Anand • Joginder Kumar • Savita Deswal and S.C. Malik • V.J. Munday and Anju Dhall • Poonam and S.C. Malik • Permila and S.C. Malik • Gitanjali and S.C. Malik 	Conference Hall
Technical Session	<p>T4: Applied Statistics (AS) Chair: Prof. H.S. Jhaji Speakers:</p> <ul style="list-style-type: none"> • D. D. Pawar and B. L. Bable • V.K. Chaudhary and Ajit Sharma • Preety Rattan, Sangeeta Arora and Kalpana K. Mahajan • Gopal Singh and Deepak Saini • Manzoor Ahmad Khanday and J. R. Singh • Sanjeet Singh • Rupinder Kaur and Darshan Kumar 	Board Room
Technical Session	<p>T8: Bio Statistics (BS) Chair: Dr. Parmil Kumar Speakers:</p> <ul style="list-style-type: none"> • Jyoti Dhiman, Tara Gupta and RK Gupta • Geeta Verma, R.K. Gupta and P.K. Mahajan • Meena Ruhel • P.R. Gangwal and N. A. Razvi • Nisha, Chetan and Ratna Raj Laxmi 	Smart Room
12:00-1:30	Invite Speakers	IHTM
Session 20	<p>Chair: Dr. P.C. Jha Speakers: Prof. V.K. Sehgal, Jhansi Title: Bayesian Inference Frailty Model in Survival Analysis</p>	Conference Hall

	<p>Dr. R.K. Agnihotri, St. John's college, Agra (IT 35) Title: Reliability Analysis of a Power Supply System in a Production Unit</p> <p>Prof. D.K. Ghosh, Saurashtra University, Rajkot (IT41) Title: Optimal Pair wise Balanced Designs from Triangular PBIB Designs with $v = 10$</p> <p>Dr. Chitranjan Sharma, Govt. Holkar Sc. PG College, Indore (IT 36) Title: A Parallel System with Arrival and Maximum Repair Time of the Server</p>	
	Technical Sessions (Parallel)	
Technical Session	<p>T10: Miscellaneous (MIS) Chair: Dr. Poonam Malik Speakers:</p> <ul style="list-style-type: none"> • Indeewar Kumar • Puneet and Seema Mehra • Sheela Kumari • Vijita Mishra and Shailendra Kumar • Sangeeta Rathee • Manju • Gopal Singh and Vedang Ratan Vatsa • Gopal Singh and Vedang Ratan Vatsa • Shruti Vatsa 	Board Room
Technical Session	<p>T7: Reliability Engineering Chair: Dr. Pardeep Goel Speakers:</p> <ul style="list-style-type: none"> • Raeesa Bashir and J P Singh Joorel • Vijay Goyal and Pardeep Goel • Sudesh Kumari and Rajeev Kumar • Sonali Baweja and Ashish Kumar • Ravinder Singh • Sandeep Sharma and Pardeep Goel • Sandeep Sharma and Pardeep Goel • Gulab Singh Bura 	Smart Room
1:30-2:30	Lunch	IHTM
2:30-3:30	Invited Session	
Invited Session	<p>Invited Session – 1: Reliability Engineering Chair: Dr. Pawan Kumar Organizer – Dr. M.S. Kadyan, Kurukshetra University Speakers</p> <ul style="list-style-type: none"> • M.S. Kadyan and Ram Niwas • S. K. Chhillar • Ravinder Singh and R.K. Bhardwaj • Upma and S.C. Malik • Sudesh K. Barak and S.C. Malik • Komaldeep Kaur and R.K. Bhardwaj • R. Rathee and S.C. Malik 	Conference Hall

	<ul style="list-style-type: none"> • Jitender Kumar and M.S. Kadyan • Kuldeep Nagiya and Mangey Ram 	
	Technical Sessions (Parallel)	
Technical Session	T14: Data Mining (DM) Chair: Prof. C. Umashankar Speakers: <ul style="list-style-type: none"> • Pooja Mittal, Mahak and Bhavya • RavneetJyot Singh and Williamjeet Singh • Ab Latif Dar and J. R. Singh • Anshu and Kamlesh Gakher • Gourav Gupta, Manish Gupta, Inder Singh Gupta • Suman Mann, Bhumika Gavery and Nikita Malik • Shubpreet Kaur and R.K.Bawa • Meena Kumari • Pooja Mittal, Mahak and Bhavya 	Board Room
Technical Session	T12: Reliability Engineering Chair: Dr. Mangey Ram Speakers: <ul style="list-style-type: none"> • Dheeraj Pawar • M.S. Barak • Ashish Kumar and Monika S. Barak • A.K. Dhankhar • Ramesh Kumar, M. S. Kadyan & Jitender Kumar • Jyoti Nandal and S.C. Malik • Vikas Garg and M.S. Kadyan • Meenu Goel, Jitender Kumar & M. S. Kadyan 	Smart Room
4:00	Valedictory Function	IHTM Conference Hall
5:00	High Tea	