



International Conference on

STATISTICS AND DATA SCIENCE:

**THEORY AND PRACTICE FOR PROGRESS AND PROSPERITY
(ICSIDS-2021)**

January 27-29, 2022

In conjunction with

41st Annual Convention of

Indian Society for Probability and Statistics (ISPS)

Jointly Organized by

Department of Statistics

University College of Science

Osmania University, Hyderabad

Telangana, India-500 007.

&

Indian Society for Probability and Statistics

(ISPS)

Pre convention workshop on

“Innovations on Data & Statistical Sciences” on 26th January, 2022

(for ISPS life members only)

CO-SPONSORS

RUSA 2.0 Osmania University

Telangana State Council of Higher Education

ABOUT THE UNIVERSITY

Osmania University was established in 1918, located in Deccan Plateau, the City of Pearls, Hyderabad. It is the seventh oldest University in India and third oldest in South India and celebrated its centenary in 2018. It is imparting quality education and high intensity research in scientific fields. It is a great privilege and a matter of pride that the university was awarded 'A+' grade by NAAC, category-I autonomy status by UGC, New Delhi and also recognized as University with Potential for Excellence (UPE) by UGC. The university is also recognized for RUSA 2.0 grant out of which efforts are being made to strengthen infrastructure and laboratory facilities.

ABOUT THE DEPARTMENT

In Osmania University Post Graduate course in Statistics was introduced in 1959 as part of the Department of Mathematics and established Department of Statistics on December 8, 1966 separately. The Department of Statistics celebrated its Golden Jubilee in 2016. It is offering M.Sc. Statistics and Applied Statistics courses and Ph.D. program in Statistics. The Department was identified by DST-FIST-I during 2005-2010; DRS-SAP-I during 2011-2016 and subsequently identified under DRS-SAP-II from 2018-2023. The Department is sanctioned 20 Lakhs under RUSA scheme in 2019-20. The Department has produced around 80 Ph.D.'s and 70 M.Phil.'s in Statistics. The Department Seminar library has around 5,000 reference books on statistics with a Reference hall which is open for Staff and students. The Department is procured with statistical packages SPSS, MATLAB, Neuro Solutions and STATISTICA. Department is equipped with two Computer Labs with 80 PC's. Alumni of the Department have introduced 3 Gold Medals for toppers of M.Sc. Statistics, M.Sc. Applied Statistics and B.A. /B.Sc. Statistics at U.G. level in the year 2010. World renowned Statistician Padmavibhushan Prof. C. Radha Krishna Rao instituted a Gold Medal for topper of M.Sc. Statistics and Applied Statistics in the name "C.R. Rao Gold Medal" in the year 2017. Alumni of the Department, Prof. P. Laxmi Manga also instituted a Cash Award for topper in first two semesters of M.Sc. Statistics and Applied Statistics students separately in memory of her parents in 2014.

The faculty of the Department has published many research papers in National and International reputed Journals. The major research areas are Statistical Inference, Multivariate Data Analysis, Time Series Analysis, Design and Analysis of Experiments, Probability Distributions, and Data Science. The Department organized many workshops, Faculty Development Programs and National and International Conferences since 1990. The Department took initiative to start a Society named 'Society for Development of Statistics' (SDS) in 1988 to promote the subject Statistics. An alumni association was established in 2018 with registered by the name "Alumni Association of Department of Statistics, Osmania University (AADOSOU)".

ABOUT HYDERABAD

Hyderabad is the capital city of newly formed Telangana state and is the centre for many medieval, modern and postmodern worth seeing tourist spots rests in Hyderabad, a city of historic significance. Charminar, Golkonda Fort, Macca Masjid, Salarjung Museum, Osmania University Arts College building, Falaknuma Palace, Tankbund, Birla Temple, Sanghi Temple, Ramoji Film city, Necklace road etc which are attracting national and international tourists. The Department of Tourism, Government of Telangana is organizing city round trips. The city is well connected with Bus, Train and Air transportation facilities from various parts of the country and world. Nearby places are, world historic Ramappa temple, 1000 pillar temple, Anantha giri hills, Yadagirigutta Narasimha Swamy temple, etc. In Hyderabad, three Central Universities: University of Hyderabad (HCU), Moulana Azad National University (MANU), Central Institute of English and Foreign Languages (CIEFL); IIT Hyderabad; five state Universities: Osmania University (OU), Jawaharlal Nehru Technical University (JNTU), Potti Sriramulu Telugu University (PSTU), Professor Acharya Jayasankar Agricultural University (PAJAU); and some Deemed Universities: Gitam University, ICAI University, Anurag University, Mallareddy University etc. and some national research institutions like, IICT, NGRI, CCMB, NIN, DRDO, RCI, NRSC, ICRISAT, CRIDA, C.R.Rao AIMSCS etc. are present.

Note: The conference secretariat will make the arrangements for Local Tourist Spots visits / the accommodation to the delegates / participants in the Guest Houses & Hotels on their request with at least three weeks prior information for which the tariffs have to be borne by them only. For the details contact Organizing Secretary.



THEME OF THE CONFERENCE

The conference aims to bring researchers, academicians, and corporate people in statistical theory to a common platform. Exchange of innovations and ideas through novel ways, inspiring the young minds to galvanize the research arena and expanding the scientific horizons of statistical thinking are the important objectives of the conference. The organizers are also planning to have invited sessions with reputed Statisticians. The target of hosting the conference is to make the meet a rendezvous of statistical researchers to explore their remarkable contributions and journey through new vistas of the "Statistics and Data Science: Theory and Practice for Progress and Prosperity". This is expected to excel in the creativity of the delegates and spur them to contribute remarkable and productive research outputs. There have been significant developments in the field of Statistics; these developments are now being applied to various fields.

CONVENTION EVENTS

- | | |
|---|---|
| <ul style="list-style-type: none"> - Keynote Address - Invited Lectures - Endowment Lectures - Best Research Paper awards - Young Researcher Award - Distinguished Statistician award | <ul style="list-style-type: none"> - Plenary Sessions - Memorial Lecture - Contributory Sessions - Best Ph.D. Thesis Award - Student Project Competition - Fellow of ISPS Award |
|---|---|

CALL FOR PAPERS

The organizers are inviting original and unpublished research papers from students / research scholars, academicians and industry experts to present their work in the specialized areas of Statistics and Data Science. Major areas of Conference topics be related to: Probability Theory, Distribution Theory, Statistical Inference, Stochastic Process, Time Series Analysis, Operations Research, Multivariate Analysis, Applied Regression Models, Design of Experiments, Sampling Theory, Statistical Quality Control, Reliability Theory, Demography, Actuarial Statistics, Data Science, Mathematical Modelling, Econometrics, Agricultural Statistics, Biostatistics. The abstract of contributed papers should be focused on the items such as objective of the study, methodology, research findings, significance and scope of the study in the prescribed format. **The interested delegates are requested to submit / upload the soft copy of abstract on or before the last date 15.12.2021 through registration link.** There will be a review on the abstracts by experts and the selection of the paper is based on the recommendations of the experts committee. Acceptance of abstract will be communicated on or before 20.12.2021. Payment of Registration fee is on or before 30.12.2021 (without late fee).

Online Registration Form Link:

<https://forms.gle/Rz84dWdvbkJG3xZx8>

Text format	MS word Format, Times New Roman, Font size 12
Title	Only initial letter cap, length max. 200 characters
Author(s)	Type all authors names with initial letter caps, include affiliations, mail ids for all authors' and mention the presenting authors name at bottom
Keywords	Maximum 5 keywords or phrases
Abstract body	Limited to 200 words
Equipment needs	Indicate Audio-visual equipment needs for presenting paper
Paper subject classification	Closest proximity from the list of "Conference topics"

The selected participants are advised to complete the pre-registration, to ensure their participation by submitting registration form after paying the **required registration fee** either in online transfer or sending DD / Cheque to ISPS.

Participants	For ISPS life members		For other Participants	
	Workshop fee, before 30.12.2021	Conference fee, before 30.12.2021*	Conference fee before 30.12.21	Conference fee after 30.12.21
Faculty / Scientists	Rs. 500/-	Rs. 3,000/-	Rs. 4,000/-	Rs. 5,000/-
Research Scholars / Students	Rs. 500/-	Rs. 2,000/-	Rs. 3,000/-	Rs. 3,500/-
Industry personal	Rs. 1,000/-	-	Rs. 5,000/-	Rs. 6,000/-
Accompanying person	Rs. 2,000/-	Rs. 2,000/-	-	-
Foreign delegates	US\$ 50	US\$ 150	US\$ 200	US\$ 250

* Late fee after 30.12.2021 is Rs. 500/- for Life Members.

Bank Details:

Name of Account (in favour of) : ICSDS 2020
Account Number : 39124352716
Name of the Bank : State Bank of India
IFS Code : SBIN 0001197
Branch : SVU Tirupathi, A.P.

Note 1: For more details visit ISPS website www.icsds2020.com and www.isps.org.in.

2: Organizing committee trying to print the conference volume containing full length of papers after review with Springer publisher.

CHIEF PATRON

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Prof. S. Jitender Kumar Naik, Principal, UCS, O.U.

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Prof. S.C. Malik, Secretary	Dr. Ramkrishna Lahu Shinde, EC Member
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Prof. V.V. Haragopal Retd. Retd. OU
Dr. K.Vani, Retd. OU
Prof. C. Jayalakshmi, Retd. OU
Dr. N. Balakrishna, Retd NIN

SOME PLENARY / INVITED SPEAKERS

Prof. B.L.S.Prakasa Rao, CR Rao AIMSCS.
Prof. Arup Bose, ISI Kolkota
Prof. Debasis Kundu, IIT Kanpur
Prof. Isha Dewan , ISI Delhi
Prof. Asishsen Gupta, ISI Kolkota
Prof. N. Balakrishna, CUSAT, Cochin
Prof. A.M. Mathai, McGill University Canada
Prof. K. Sreenivasa Rao, A.U. Visakhapatnam
Prof. P. Vellaisamy, IIT, Mumbai
Prof. P.G. Sankaran, CUSAT, Cochin
Prof. Rakesh Srivastava, MSU Rohtak
Prof. Kanchan Jain, Punjab University
Prof. T.V. Ramanathan, SPPU Pune
Prof. S.C. Malik, MDU Rohatak
Prof. K. K. Jose, MGU Kerala
Prof. Isha pathik Das, IIT Tirupathi
Dr. Ananya Lahari, IIT Tirupathi
Prof. C. Raghavender Rao, HCU, Hyderabad

Prof. C. Sathesh kumar, Kerala University
Prof. R.L. Shinde, NMU Jalgon
Prof. M. Krishna Reddy, OU, Hyderabad
Prof. V.V. Haragopal, BITS Pilani
Prof. Parameswar V Pandit, BU
Prof. V. Sharada Bhat, Karnataka University
Prof. G.V.S.R. Anjaneyulu, ANU, Guntur
Dr. P.R. Vittal, MU, Chennai
Prof. R. Ravanan, Presidency, IGNOU, Delhi
Dr. NehaGarg, IGNOU, Delhi
Prof. P.K. Swain, Utkal University
Dr. R.S. Latepate, SPPU Pune
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Prof. Someshkumar, IIT Karagpur
Dr. M. Vishnuvardhan Rao, Director, ICMR
Prof. B. Muni Swamy, AU Visakhapatnam

General Chair

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International Conference On
STATISTICS AND DATA SCIENCE :
THEORY AND PRACTICE FOR PROGRESS AND PROSPERITY
ICSDS-2021

27-29
JANUARY
2022



OSMANIA UNIVERSITY
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TELANGANA

in conjunction with
41th Annual Convention of
Indian Society for Probability and Statistics (ISPS)

Jointly Organized by

Department of Statistics, Osmania University, Hyderabad, Telangana State
Indian Society for Probability and Statistics (ISPS)

Pre convention Workshop “Innovations on Data & Statistical Science”
on 26th January 2022 (for life members only)
Last date to receive the abstracts : 15-12-2021

Prof. P. RAJASEKHARA REDDY

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www.icsds2020.com



icsds2020@gmail.com

THEME OF THE CONVENTION

The convention aims to bring researchers, academicians, and corporate people in statistical theory to a common platform. Exchange of innovations and ideas through novel ways, inspiring the young minds to galvanize the research arena and expanding the scientific horizons of statistical thinking are the important objectives of the convention. The target of hosting the convention is to make the meet a rendezvous of statistical researchers to explore their remarkable contributions and journey through new vistas of the “**STATISTICS AND DATA SCIENCE: THEORY AND PRACTICE FOR PROGRESS AND PROSPERITY**”. This is expected to excel in the creativity of the delegates and spur them to contribute remarkable and productive research outputs. There have been significant developments in the field of Statistics, these developments are now being applied to various fields.

CONVENTION EVENTS

- Keynote Address
- Plenary Sessions
- Invited Lectures
- Contributory Sessions
- Prof. P. V. Sukhatme Memorial Lecture
- Prof. Y. C. Narasimhulu Endowment Lecture
- Prof. A. M. Mathai Endowment Lecture
- Prof. M. P. Shastri Endowment Lecture (Donated by Prof. P. Rajasekhar Reddy and K. Nageswara Rao)
- Prof. David Hanagal Endowment Lecture
- Prof. R. Ramanan Endowment Lecture
- Prof G Sankaranarayanan(Founder President of ISPS) Endowment Symposium
- ISPS Young Statistician Award for Best Research Paper Presentation (Dr. J. Sethu Raman Gold Medal)
- Prof. A. M. Mathai Cash Prize for the Second Best Research Paper Presentation
- Prof. M. N. Gopalan Cash Prize for the Third Best Research Paper Presentation
- Prof. B. K. Kale Cash Prize for the Fourth Best Research Paper Presentation
- M.Sc. Student Project Competition*
- Prof. A. R. Kamath Award for the Best Ph.D. Thesis* (Donated by Prof. Jagannatha Wani, Canada)
- Prof. C. R. Rao Gold Medal for the Best Research Paper Presentation (Below 45 years)
- Prof. K. Srinivasa Rao ISPS Best Researcher Award* (45 to 60 years)
- Distinguished Statistician award of ISPS 2021
- Fellow of ISPS Award
- Prof. C. R. Rao Life Time Achievement Award (once in 3 years)

CALL FOR PAPERS

The organizers invite original and unpublished research papers from students/research scholars, academicians and industry experts to present their work in the specialized areas of Statistics and Data Science. The abstract of contributed papers should be focused on the items such as objective of the study, methodology, research findings, significance and scope of the study. There will be a review on the abstracts by experts and the selection of the paper is based on the recommendations of the experts' committee. Those who are interested to contribute in the journal may contact Chief editor, JISPS.

The interested delegates are requested to submit the soft copy of abstract at icsds2020@gmail.com before the scheduled date in the following forms:

ABSTRACT FORMATS

Text Format	Microsoft Word format (Times New Roman, Font Size 12)
Title	Limited to 200 characters in length. Use initial caps in the title; do not use all caps
Author (s)	Type all authors names with initial caps. Include affiliations for all authors using tags if necessary
Address	Contact / Presenting authors names and mailing address and e-mail address
Keywords and Phrases	Maximum 5 key words or Phrases
Abstract Body	Limited to 200 words
Equipment Needs	Indicate your Audio-Visual equipment needs for presenting the paper at the conference at the end of the abstract
Paper Subject Classification	Closest proximity from the list of "Conference Topics"

REGISTRATION

The selected participants are advised to get pre-registration to ensure their participation at the conference. They are required to send Demand Draft / Cheque in favour of "ICSDS 2021" payable at SBI, S.V. University Campus Branch, Tirupati, Andhra Pradesh and send the Draft to the address of the Convener specifies at the first page. For ONLINE transfer, one can use the Bank Details as follows and send the fee receipt to the Convener.

BANK DETAILS

Name : **ICSDS2020**
Account Number : **39124352716**
Name of the Bank : State Bank of India
Branch Name : S.V. University Campus Branch, Tirupati
IFSC Code : SBIN0001197, MICR: 517002005

IMPORTANT DATES

Submission of abstracts	:	On or Before 15/12/2021
Acceptance communication of abstract	:	20/12/2021
Payment Registration fees	:	30/12/2021 (Without late fee) After 01/01/2022 (With late fee)
Pre-Convention Workshop	:	26/01/2022
Date of Convention	:	27-29 January, 2022

REGISTRATION FEE (for Three Days)

Participants	For Life Members of ISPS Before 30/12/21	Others Before 30/12/21	After 01/01/22
Faculty/ Scientists	Rs.3000/-	Rs.4000/-	Rs.5000/-
Research Scholars/Students	Rs.2000/-	Rs.3000/-	Rs.3500/-
Industry Personnel	-	Rs.5000/-	Rs.6000/-
Accompanying Person	Rs.2000/-	Rs.2000/-	-
Foreign delegates	US\$ 150	US\$ 200	US\$ 250

* Accompanying persons will not be provided the conference kit

The registration fee includes the Conference Kit, Breakfast (2), Lunch(3), Dinner (2) and Coffee / Tea breaks during the conference days.

Accommodation

The convention secretariat will make the arrangements for limited accommodation to the delegates / participants in the Guest Houses and Hotels on requests for which the tariffs have to be borne by them.

Programme Co-Ordinator

Prof. C. Satheesh Kumar

Executive Member of ISPS

Kerala University

Trivendrum

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Programme Co-Co-ordinator

Dr. M. Venkateswaran

Treasurer of ISPS

Madhura PG College, Madhurai

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Mobile: 9573360040

For More Details

Visit ISPS Website : isps.org.in

(or)

Conference Website : www.icstds2020.com



ISPS COMPETITION EVENTS



Regd. 1980

(a) The ISPS invites Best Research Papers for the Annual Research Awards for the year 2021 from Research Scholars and Doctorates working in Statistics / Applied Statistics for the Competition events are:

1. ISPS Young Statistician for Best Research Paper (Dr. J. Sethuraman Gold Medal)
2. Dr. A.M. Mathai Cash Prize (Rs.10,000/-)
3. Dr. M.N. Gopalan Prize (Rs.2,500/-)
4. Dr. B.K. Kale Prize (Rs.1,500/-)

- Should be under 35 years of age
- Soft copy of 3 hard copies of the research papers may be sent to the following address on or before 30.11.2021. Only soft copy of the blinded version of Research Paper along with biodata.
- Paper should not be published and communicated to any journal.
- Paper should be a single authored

Prof. Parameswara V Pandit

Joint Secretary of ISPS
Dept. of Statistics
Bangalore University, Bangalore
e-mail: panditpv12@gmail.com
Mobile : 9448845485

(b) Prof. A.R. Kamat Award for Best Ph.D. Thesis in Statistics, 2021

Sponsored by **Prof. Jagannatha Wani**

The ISPS invites Professor A.R. Kamat Award for Best Ph.D. Thesis 2021 in Statistics / Applied Statistics in India / Abroad

- Should be under 32 years of age. Thesis should be submitted to the University during the period from 15-06-2020 to 30-06-2021 (one year period). Old thesis will not be considered.
- Only soft copy of the blinded version of Ph.D. thesis along with biodata should be sent to email address of the Ph.D. thesis committee on or before 30-11-2021

Prof. Rakesh Srivastava

Vice-President of ISPS,
Dept. of Statistics,
MS University, Baroda
E-mail: rakeshshrivastava30@yahoo.co.in
Mobile: 9824313066

(c) ISPS M.Sc. Student Project Competition

- Title : **Statistical Analysis for Data Streams**
- Eligibility : A team of 3 students studying M.Sc., Statistics / Applied Statistics in Each University Only one team is eligible from each University
- Note : ISPS will provide T.A. Registration fee will be waived and accommodation will be provided by the organizers.
- Entries : (Soft copy and 3 hard copies of the Student Project in MS word) may be sent to the following address on or before 30.11.2021.

Prof. C. Satheesh Kumar

Executive Member of ISPS
Kerala University
Trivandrum
E-mail: profcskumar@gmail.com
Mobile: 9895980078

ISPS RESEARCH AWARDS

1. Dr. C.R. Rao Gold Medal

Call for applications/nominations for C R Rao Gold medal in Statistics

Nominations/applications are invited for “C R Rao Gold medal in Statistics for 2021”. This medal was donated by Professor C. R. Rao to recognize the young researchers in Statistics who made significant contributions.

Eligibility Criteria: The nominee/applicant should

- (a) be an active researcher in theoretical or applied areas of Statistics,
- (b) be below 45 years of age as on 31st December of the financial year in which medal is given,
- (c) have made significant contributions in applied/theoretical statistics,
- (d) have acquired a degree of Ph.D and published at least 5 research papers in SCI journals of Statistics.

The main objective of this award is to recognize and encourage a young researcher in the field of Applied/ Theoretical Statistics.

Professor C.R. Rao award carries a gold medal along with a citation.

The Awardee will be invited to present his/her research work at the venue of the annual convention of that particular year.

2. Prof. K. Srinivasa Rao ISPS Best Researcher Award

Call for applications/nominations for Prof. K. Srinivasa Rao Best Researcher Award in Statistics

In recognition of the outstanding contribution of Prof. K. Srinivasa Rao, a renowned statistician and distinguished researcher, to the subject of Statistics and its allied fields, the ISPS has instituted “Prof. K. Srinivasa Rao Best Researcher Award in Statistics” to honour researchers for their significant contribution in the field of Statistics.

Nominations/applications are invited for “Prof. K. Srinivasa Rao. Rao Best Researcher Award in Statistics for 2021”. Details about the award and eligibility criteria are as under:

- (i) The Award:
 - (a) Prof. K. Srinivasa Rao Best Researcher Award in Statistics carries a cash prize only along with a citation, shawl and Memento.
 - (b) Boarding and lodging is also to be provided to the awardee for participating in the award presentation ceremony.
- (ii) Eligibility Criteria: The nominee/applicant should:
 - (a) be a Statistician in the age group of 45 years to 60 years as on 31st December of the financial year in which award is given,
 - (b) have made significant and outstanding contributions in applied/theoretical statistics, significantly benefiting advancement of knowledge in Statistics.
- (iii) have acquired a degree of Ph.D/D.Sc and published at least 15 research papers in SCI journals of Statistics.
- (d) have successfully guided at least 4 students for their Ph.D. degrees in Statistics (or) successfully completed 4 research Projects / consultancy projects of not less than Rs 5 Lakhs each funded by reputed funding agencies.

3) Distinguished Statistician Award (Below Age: 65 years)

The ISPS invites for D.S. Award 2021 among eminent Statisticians from Indian Universities / Institutions or Abroad. He must be a Senior Life Member of ISPS and Should be 65 years of age. Those Who are interested their Bio-Data should be Nominate to the following address on or before 15.11.2021.

Soft copy of an Applications/Nominations of the eligible candidates in the prescribed proform a (given below) along with their resume/synopsis highlighting the salient features of the statistical work done by them may be sent.

To

Prof. S.C. Malik

Secretary of ISPS, MD University,
Rohtak, Haryana, India.

Email: sc_malik@rediffmail.com

Mobile : 9813104668

so as to reach on or before : 15.11.2021.

Prof. P. Rajasekhara Reddy

Hon. President of ISPS

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