



Prof. Jai Kishore Sharma  
President

**President’s Message**

It gives me an immense pleasure to present second issue of ORSI Newsletter. In this issue, technical events being organised by ORSI and its chapters with other related information are placed in a lucid manner. These includes indexing of OPSEARCH Journal in international arena, organising monthly Webinar series by our Bangalore chapter on a subject of everyone’s interest by eminent academicians’/industry icons, call for nomination of prestigious ORSI awards, invitation to researchers for submission of their research papers to present in the international conference, and tutorial on mathematical modelling, etc.

Since inception ORSI is well-known for its professional activities and dedication of its members towards teaching, applications and mathematical modelling in Operational Research, analytics, applied mathematics and statistics. There is an opportunity for our members and their students/colleagues to present their innovative ideas in the form of research papers during the Annual Convention at Indore during 17-19 December 2021 and their participation to make the event a success.

It is my humble appeal to all ORSI chapters to be vibrant and present their visibility in national platform in general and their geographical jurisdiction in particular by organising technical events, short-term courses, invited lectures, etc. This will help garner more members as well as serving the profession in a befitting manner. It is to remember that Society cannot sustain without active involvement of their members.

Last but not the least, I appreciate the initiative of my two council colleagues as editors of this newsletter with special mention of Dr A K Gupta, Executive Secretary, and his supportive staff for their everlasting interest in publication of the newsletter.

**CALL FOR NOMINATIONS FOR ORSI AWARDS - 2021**

**Prof. P.C. Mahalanobis Award**

In the honour of Prof. P. C. Mahalanobis, the founder President of ORSI, ORSI invites nominations from members for three distinguished educators and professionals in India in (a) Mathematics, Statistics & other Science Disciplines, (b) Engineering and (c) Management.

**Prof. M. C. Puri Memorial Award**

ORSI invites nominations for Prof. M. C. Puri Memorial Award from members of ORSI with most of their research work done in India with significant impact and promoting Operational Research in the country.

**Fellowship Award for 2019, 2020 and 2021**

Nominations for ORSI Fellowship Award for 2021 are invited from senior members of the Society having outstanding contributions towards the promotion and development of Operational Research. **Nominations already received for 2019 and 2020 shall be duly considered for the respective year. They need not to apply again.**

Last date for submission of nomination is 30 July 2021. For additional details, visit our website [www.orsihq.org](http://www.orsihq.org) or contact the Executive Secretary (Land Line: 033 24644213/ Mobile +919051881481).

**MONTHLY WEBINAR SERIES**

The ORSI, through its Bangalore Chapter, had organized following three Webinars on April 24, 2021, May 22, 2021 and June 12, 2021, respectively. Names of speakers and topic of the talk are given below:

Name	Topic
Dr. U. Dinesh Kumar Professor in Decision Sciences IIM, Bangalore	OR and Business Analytics
Dr. Arvind Kumar Vice-President (R&D) Optym, Bangalore	Emerging Analytics Opportunities in Electric Vehicle and Related Domain

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Name	Topic
Prof. Ram Ramanathan, Director and Dr. Lohithaksha M Maiyar Research Fellow of Business and Management Research Institute, University of Bedfordshire, U.K	Internet of Things and Big Data Analytics in Reducing Food Waste in Europe
<b>Fourth Webinar in the Series will be on 24 July 2021 at 6 p.m. Details are:</b>	
Mr. Chandrasekaran Vasudevan Director – 5G Core Network Applications and Cloud Infra Digital Services, Ericsson India	5G and Its Role in Accelerating Digital Transformation

**You Tube-Tutorial on Mathematical Modelling**

Beginners in Operations Research usually find it difficult to formulate a model on their own or to fully understand a model without the support of an Adviser. Students get better over time by studying more and more examples. In this way, they learn how to formulate a mathematical model. This online tutorial is to support the learning process. Typical tips and tricks are explained in a series of short videos. A playlist link can be retrieved from the following website:

<https://www.log.msm.uni-due.de/lehre/you-tube-tutorial-modellierung/>

For further information, contact: Prof. (Dr.) Alf Kimms, President, German OR Society, Chair of Logistics and Operations Research, Mercator School of Management, University of Duisburg-Essen, Campus Duisburg, 47048 Duisburg, Germany. Phone: +49(0)203 3793492; email: [alf.kimms@uni-due.de](mailto:alf.kimms@uni-due.de)

**INDEXING OF OPSEARCH JOURNAL IN EMERGING SCI and SCOPUS**

A dedicated and vibrant Editorial Team of ORSI takes a pleasure to inform the members that OPSEARCH Journal is now indexed in Emerging Sources Citation Index (Part of the Web of Science Core Collection) and SCOPUS. Emerging Sources Citation Index contains quality publications, selected by Web of Science's expert in-house editors for editorial rigor and best practice at a journal level.

In addition to this very important Core Collection of Web of Science, the Journal is also **abstracted and indexed in 27 indexing services** (<https://www.springer.com/journal/12597>).

In case the OPSEARCH Journal is not being subscribed in your university/college/institute library, it is high time to arrange for its subscription. It would be a valuable addition to your library.

*International Conference on*  
**Applications of Operational Research in Business and Industries**  
**(AORBI 2021)**  
with  
**54<sup>th</sup> Annual Convention**  
**Host: Indore Chapter of ORSI**  
**Venue & Date: Government Model Autonomous Holkar Science College Indore 452 001 (MP),**  
**17 - 19 December 2021**

### About ORSI

Operational Research Society of India (ORSI) was established in 1957 by Prof. P. C. Mahalanobis. He was the founder President of ORSI. It provides a common platform for the Operational Research Specialists – theoreticians and practitioners - to widen their horizon by exchange of knowledge and application techniques.

## 54<sup>th</sup> Annual Convention

Since 1968 ORSI organized 53 Annual Conventions at different locations in India. This Convention is 54<sup>th</sup> in series and will be held concurrently with an International Conference. Following Awards will be presented on 19 December 2021:

- Fellowship Award
- Prof. P.C. Mahalanobis Award
- Prof. M.C. Puri Memorial Award

## About the International Conference

It is a tradition that ORSI organises a conference of International level on a topical subject to invite research and industry-oriented papers for presentation in the conference. Therefore, it has been decided to organize an **International Conference on Applications of Operational Research in Business and Industries (AORBI 2021)**.

## Objectives and Scopes of AORBI 2021

AORBI 2021 brings together leading international experts on production systems and business from academia, industry, and government to discuss the issues in intelligent manufacturing, operations management, financial management, supply chain management, and Industry 4.0 in the Artificial Intelligence era. The conference proceedings will be published in the Springer book series and indexed on SCOPUS and Web of Science. Industry leaders and renowned academicians will share their viewpoints and insights through industry and business essences. The conference is supported by one leading international journal: OPSEARCH.

Topics of interest include, but are not limited to:

<ul style="list-style-type: none"><li>• AI &amp; Data-driven Production Management</li><li>• Marketing and Retail Management</li><li>• Financial Management</li><li>• Human Resource Management</li><li>• Operations Management</li><li>• Smart Manufacturing &amp; Industry 4.0</li><li>• Supply Chain and Logistics Management</li><li>• Digital Supply Network</li><li>• Healthcare Administration</li></ul>	<ul style="list-style-type: none"><li>• Optimization and Control</li><li>• Combinatorial Optimization</li><li>• Queuing Theory</li><li>• Resource Allocation Models</li><li>• Linear and Nonlinear Programming Models</li><li>• Inventory Management</li><li>• Multi-objective Decision Models</li><li>• Statistical Quality Control</li><li>• Bayesian Data Analysis</li></ul>
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## Guidelines for Submission of Abstract

- Abstract of about 1000 words should be submitted through email: [drcsharma3@gmail.com](mailto:drcsharma3@gmail.com)
- The last date for submission of abstract is 30 August 2021.
- Abstracts must include the purpose of research, sources of data, research methodology, major results, implications and key references.
- All abstracts received will be reviewed and only applicants, whose abstracts of the papers will be accepted, should submit the full paper latest by 30 November, 2021.

## Submission of Full Paper

- Authors are invited to submit, after receipt of acceptance of their abstract, papers, describing original, previously unpublished work, not currently under review by another conference, workshop or a Journal. Full papers (up to 12 camera-ready pages, 10 point font in Springer Conference format) should present new perspectives within the general scope of the conference. Papers with maximum 16 pages may be allowed with extra page charge. Full papers, which are registered and presented, will be published in the Springer proceedings and Springer digital library. All papers must include title, complete contact information of all authors, abstract and keywords on the cover page. Full paper should be submitted in PDF format.
- Accepted research papers shall be considered for publication in the special issue of **OPSEARCH** and other SCOPUS indexed research journals as well as in **Conference Proceedings to be printed by Springer after peer review**.

## Registration Fee\* (Online and Offline Mode)

- Please visit conference website ([www.orsiiindore.in](http://www.orsiiindore.in)) for registration process for online and offline mode.
- Registration fee will include CD proceedings with ISBN number, conference material, lunch, dinner and snacks during the conference.

Participation Category	India	Overseas	Important Dates
Corporate Participant	INR 6000	USD 400	Last date for abstract submission <b>August 30, 2021</b>
Academic Participant	INR 4000	USD 250	Email notification for selected abstracts <b>September 30, 2021</b>
ORSI Participant	INR 3500	USD 250	Last date for submission of selected papers <b>November 30, 2021</b>
Research Scholars and PG Students	INR 3000	USD 200	Conference dates <b>December 17-19, 2021</b>


*\* Registration fee shall be excluding GST. GST will be as per host institution norms.*

## Host Centre & Co-organizers


Indore Chapter of Operational Research Society of India will host the event in collaboration with the following:

- Department of Mathematics, Govt. Holkar Science College, Indore
- Society for Mathematics Development, IIT, Indore
- GSITS, Indore

## About Venue

	Govt. Holkar Science College was established on 10 <sup>th</sup> June, 1891 by his Highness Maharajadhiraja Raj Rajeshwar Sawai Shri Sir Shivaji Rao Holkar Bahadur XII, the erstwhile ruler of Indore belonging to the Holkar dynasty of the Marathas. At present, the College has been ranked third amongst government autonomous colleges in the country by Education World Rankings 2020-21.
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## Indore City

	Indore is a city in West-Central Asia. It is known for nineteenth century Holkar dynasty. The Holkar rulers are honoured by a cluster of tombs and cenotaphs at Chhatri Baag. East is the Indo-Gothic Gandhi Hall and Clock Tower. The Jain Temple Kanch Mandir has a mirrored mosaic interior. There are many other picturesque places to visit in and around Indore. Indore is well connected with air and surface routes.
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## Tentative Programme

### 17 December 2021

9.00 – 10.30 AM	Registration
10.30 – 12.00 Noon	Inaugural Session and Keynote Address
12.00 – 1.00 PM	Session 1: Presentation of Papers
1.00 – 2.00 PM	Lunch Break
2.00 – 4.00 PM	Session 2: Presentation of Papers
	Meeting of Counselors
4.00 – 5.00 PM	Tea
8.00 – 9.00 PM	Dinner

### 18 December 2021

9.30 – 10.00 AM	Breakfast
10.00 – 12.00 Noon	Session 3: Presentation of Papers
12.00 – 1.00 PM	Invited Lecture

*Continued ....*

1.00 – 2.00 PM	Lunch Break
2.00 – 4.30 PM	Session 4: Presentation of Papers
4.30 – 5.00 PM	High Tea
5.00 – 6.00 PM	Central Council Meeting
8.00 – 9.00 PM	Dinner

**19 December 2021**

9.30 – 10.00 AM	Breakfast
10.00 – 11.00 AM	Prof P Rajasekhara Reddy Endowment Lecture
11.00 – 12.00 Noon	Annual General Meeting
12.00 – 1.00 PM	Panel Discussion between Academia and Industry Leaders
1.00 – 2.00 PM	Lunch Break
2.00 – 3.00 PM	Presentation of Awards / Prize Distribution
3.00 – 4.00 PM	Valedictory Session

**Excursion Tour**

**Excursion Tour will be arranged by the Host Centre on demand by the participants.**

<p><b>COMMITTEES</b></p> <p><b>Chief Patron</b></p> <p>Dr. Suresh T. Silawat, Additional Director Higher Education and Principal of Holkar Science College, Indore.</p> <p><b>Advisory Committee</b></p> <ul style="list-style-type: none"> <li>• Dr.Renu Jain, Vice-Chancellor , DAVV, Indore</li> <li>• Dr. Sunil K. Somani, Vice-Chancellor, Medicaps University, Indore</li> <li>• Dr. Vijay Kumar Gupta</li> <li>• Dr. Sanjay Vyas</li> <li>• Dr. Jai Kishore Sharma, President, ORSI</li> </ul>	<p><b>Organising Committee</b></p> <ul style="list-style-type: none"> <li>• Dr. Aquil Khan, IIT, Indore</li> <li>• Dr. Sudha Silawat</li> <li>• Dr.Deepmala, IITDM, Jabalpur</li> <li>• Dr.Smita Verma, GSITS, Indore</li> <li>• Dr. Rachna Navlakhe</li> <li>• Dr. S B Thorad, Nanded, Maharashtra</li> <li>• Dr. Vijay Kumar Sohani, IIT, Indore</li> <li>• Prof. B.N. Namdeo</li> <li>• Dr. R.C. Dixit</li> <li>• Dr. R.K. Sharma</li> <li>• Dr. Vivek Raich</li> <li>• Dr. Naresh Patel</li> <li>• Dr. Digvijay Singh Solanki</li> <li>• Dr Pradeep K Joshi</li> <li>• Dr. Ravindra Garg</li> <li>• Dr. Anupam Sharma</li> <li>• Prof. Vikash Koshik</li> </ul>
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<p><b>Council Members of ORSI</b></p> <ul style="list-style-type: none"> <li>• Prof. Jai Kishore Sharma, President</li> <li>• Prof. Avanish Kumar, Vice-President</li> <li>• Prof. M. Mathirajan, Vice-President</li> <li>• Prof. Bijan Sarkar, Honorary Secretary</li> <li>• Prof. R. N. Mukherjee, Honorary Treasurer</li> <li>• Prof. Swapan K. Bose Chowdhury, Member</li> <li>• Prof. Samarjit Kar, Member</li> <li>• Prof. PL. K. Palaniappan, Member</li> </ul>	<ul style="list-style-type: none"> <li>• Prof. Ashis Kumar Chakraborty, Member</li> <li>• Prof. S. Dharmaraja, Member</li> <li>• Prof. Arnab Kumar Laha, Member</li> <li>• Prof. Pankaj Dutta, Member</li> <li>• Prof. C. K. Jaggi, Member</li> <li>• Dr. Adarsh Mangal, Member</li> <li>• Prof. Bibhas Chandra Giri, Member</li> <li>• Dr. Arvind Kumar Gupta, Executive Secretary (Ex-officio Member)</li> </ul>
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**CALL FOR PAPERS**

The Annual Conference of the Operational Research Society of India is the premier conference on the leading edge of theoretical and practical aspects of Operational Research. It is a highly interactive conference that enables an effective interchange of results and ideas among researchers, practitioners and data analysts. During the last 10 years there are major developments from different fields of Operational Research to the global mathematics to specialise computing – enabled mathematical/statistical modelling with data analysis.

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ORSI members are requested to send the information to ORSI headquarters at email id: [orsihq39@yahoo.in](mailto:orsihq39@yahoo.in) to be shared in a forthcoming issue of ORSI Newsletter.

Edited by S Dharmaraja and Arnab Kumar Laha on behalf of ORSI, and published by the Executive Secretary, Operational Research Society of India, 39 Mahanirvan Road, Kolkata 700029, India  
(Land Line: 033 24644213/Mobile +919051881481)