



ISPI & RS

ISRS

Memoirs

GOLDEN JUBILEE CELEBRATIONS

FEBRUARY 24, 2023



INDIAN SOCIETY OF REMOTE SENSING

&

JOURNAL OF INDIAN SOCIETY OF REMOTE SENSING



**INDIAN SOCIETY OF REMOTE SENSING
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JOURNAL OF INDIAN SOCIETY OF REMOTE SENSING**



Golden Jubilee Celebration

FEBRUARY 24, 2023

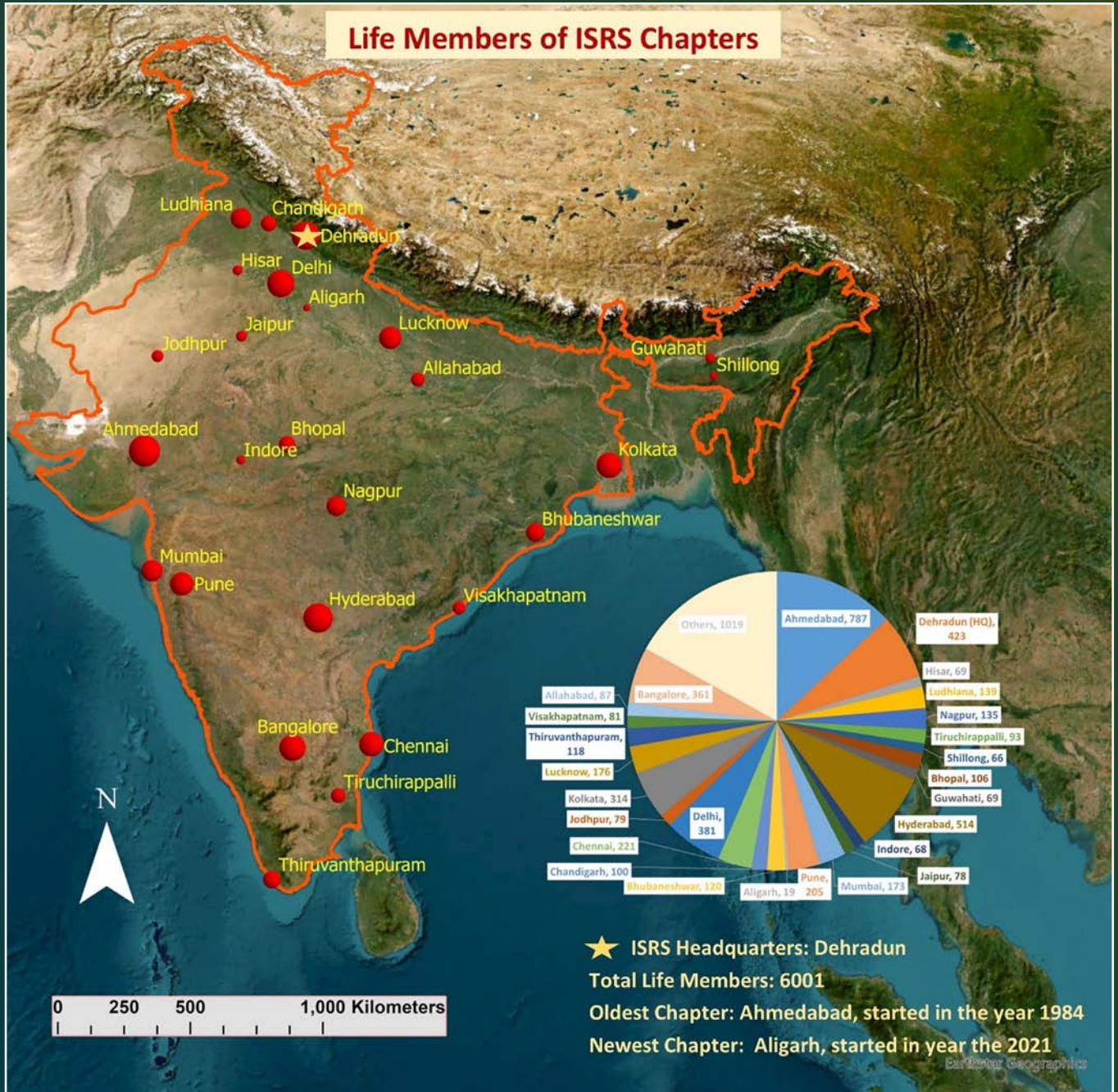
IIRS CAMPUS DEHRADUN



ISRS

INDIAN SOCIETY OF REMOTE SENSING

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ISRS CHAPTERS & THEIR LOCATIONS



WELCOME

Established in 1969 as the “Indian Society of Photo-interpretation” as a not-for-profit scientific society, the main objectives remained towards advancement and dissemination of remote sensing technology with conventional methods in the field of survey, planning, and management of natural resources and the environment through organizing seminars/symposia and by publishing journal, bulletins, proceedings, etc. From its modest beginning with 56 members, the society has grown into a premier professional body with a membership of more than 5900, including both individual and Institutional members. During the last 50 years, ISRS has established a very strong and professional relation with the International Society for Photogrammetry and Remote Sensing (ISPRS) and Asian Association on Remote Sensing (AARS).

The objectives of ISRS also aimed at:

- Promoting interaction among government departments, researchers, academic institutions (private and/or state-owned), and industries interested in achieving advancement, dissemination, and application of the technology.
- To encourage and undertake research in remote sensing and related technologies.
- To undertake and execute all acts which shall promote all or any of the aims and objectives of society.

Journal of the Indian Society of Remote Sensing (JISRS), the official journal of ISRS, continues to disseminate remote sensing technology and its applications to a widespread multidisciplinary audience. This monthly journal has one of the highest impact factor among various Indian scientific journals.

To celebrate this remarkable achievement, the Executive Council of ISRS along with the editorial board of JISRS has planned to organize the Golden Jubilee Celebration on 24 February 2023, at the IIRS Campus, Dehradun.



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BRIEF PROGRAM

Time	Program Details*
09:00 – 09:30	Registration at IIRS campus
09:30 – 11:15	Inaugural session Welcome address, small documentary movie about ISRS and JISRS, release of ISRS memoir, GJ logo, JISRS best papers compendium, messages from ISPRS and AARS presidents, felicitation of former ISRS presidents, JISRS EIC, address by invited chief guests and guest of honor and vote of thanks.
11:15 – 11:45	Tea break, opening of exhibition and ISRS hq. visit Opening of ISRS/JISRS/IIRS/ISRS-DC/NRSC exhibition and visit to renovated ISRS building by the ISRS members
11:45 – 13:15	Journey of ISRS and JISRS, past, present & future directions Panel discussion by former ISRS presidents and JISRS EIC/Chief Editors, Recognition of the ISRS chapters and JISRS associate editors
13:15 – 14:00	Lunch break
14:00 – 15:30	Young leaders, entrepreneurs, scholars and publisher's sessions Panel discussion for young leaders, entrepreneurs, scholars working and contributing to the remote sensing Springer and Taylor & Francis talks, working experience with ISRS and JISRS & future directions
15:30 – 16:00	Noon tea break
16:00 – 17:30	Session for JISRS editors & former EC members ISRS & ISRS chapters Panel Discussion on Journey from "Photonirvachak to JISRS" as narrated by JISRS editors and future directions Sharing of the experience by former ISRS EC members and ISRS chapter EC members Current status & future plans of ISRS – by Secretary ISRS Vote of Thanks - by Vice Chairman ISRS-DC
17:30 – 18:30	Evening tea break Audio-video arrangements for the evening program
18:30 – 21:30	ISRS international outreach, Felicitations, Cultural program and Dinner Fireside chat and discussion on Strengthening ISRS International Linkages – moderated session; Felicitations of past ISRS secretary and main JISRS editorial board members, cultural program and grand dinner – venue IIRS campus.



MILESTONES OF ISRS

Year	Achievements
1969	Formation of the Indian Society of Photo Interpretation (ISPI)
1973	First Executive Committee of ISPI and launch of its official Journal "Photonirvachak"
1979	Change in the name of the Society from 'Indian Society of Photo Interpretation' to 'Indian Society of Photointerpretation and Remote Sensing, ISPI & RS', Change in the Logo of the Society
1980	First National Symposium at Dehradun
1982	Amendment in the Constitution
1984	Creation of the first local chapter of the society- Ahmedabad Chapter
1985	Organization of the 6 th Asian Remote Sensing Conference (ACRS) at Hyderabad on November 21- 26
1986	Change in the name of the Society from 'Indian Society of Photointerpretation and Remote Sensing' to 'Indian Society of Remote Sensing, ISRS'
1991	Institution of various ISRS annual awards viz., Indian National Remote Sensing Awards, Best Paper Published in the Journal, & Vikram Sarabhai Memorial Lecture
1994	Organization of the 15 th Asian Remote Sensing Conference (ACRS) at Bangalore on November 17-23
1995	Organization of the Silver Jubilee Celebration (February 22 – 24) of the ISRS at Dehradun
1996	Association with the International Society for Photogrammetry and Remote Sensing (ISPRS)
1997	Institution of the Prestigious Bhaskara Award
1998	Inauguration of the ISRS Building by Dr. D.P. Rao (the then Director, NRSA) First ISPRS TC-I Symposium held at Bangalore (February 28 – March 01)
2002	Organization of ISPRS TC-VII Symposium at Hyderabad during December 03-06
2005	Institution of additional awards viz., National Geo-Spatial Award for Excellence, Indian National Geo-Spatial Award for Excellence, SDI Award for Best Paper Published in Journal, and the Young Achievers Award. Amendment in the Constitution
2006	Organization of ISPRS TC-IV Symposium at Goa (September 27 – 30)
2008	Partnership with Springer India Pvt. Ltd. for the Publication of Journal of the Indian Society of Remote Sensing (JISRS)
2011	Institution of the 'President's Appreciation Award' & 'ISRS Best Chapter Award'
2011-12	ISRS and the Indian Society of Geomatics (ISG) came together for jointly organising their annual convention and national symposium
2015	Online access to the publications of the JISRS for ISRS members
2016	Launch of the new society's website with additional features including online membership and access to JISRS Publications
2017	Organization of the 38 th Asian remote sensing conference (ACRS) on October 23-27, at New Delhi
2018	Organization of ISPRS TC-V Symposium at Dehradun, November 20-23.
2021	Institution of the "ISRS Asian Geospatial Award" to be given in the ACRS every year by ISRS



GOLDEN JUBILEE CELEBRATION

MESSAGES







Lt. Gen. Gurmit Singh
PVSM, UYSM, AVSM, VSM (Retd)



Raj Bhawan
Uttarakhand

09.02.2023

Message



It is interesting to note that the Indian Society of Remote Sensing, has been in existence for 53 years as a premier institute, that is dedicated toward the expansion and dispersal of remote sensing technology in the fields of mapping, planning and management of natural resources and the environment.

Over the past five decades, the Indian Society of Remote Sensing has tirelessly worked towards the development of the nation, by promoting interactions and debates between researchers, academicians and students. The "Photonirvachak," the flagship journal of the institute, that was launched in 1973 also completes its golden jubilee this year and boasts of contributions from professionals across the globe. With the advancement of technology at an ascending pace, I am certain that the Indian Society of Remote Sensing will effectively provide a state-of-the art research and further guide India towards its "Amrit Kaal" goals.

My sincere appreciation to the Indian Society of Remote Sensing as well as to the team that publishes the Journal. I wish you a grand success for the celebrations and souvenir.

Gurmit
(Gurmit Singh)

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Sh. Pushkar Singh Dhama
Chief Minister Uttarakhand



CHIEF MINISTER
SECRETARIAT

Chief Minister Office
Vidhan Sabha, Dehradun
Uttarakhand

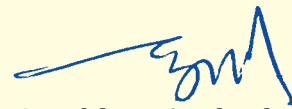
Message



I am glad to learn that the Indian Society of Remote Sensing has completed 53 years of service to the Nation in the field of spreading knowledge of remote sensing and allied technology for natural resources management. The Annual Symposiums and Conventions in the field of Remote Sensing and Aerial Photo Interpretation are also commendably being conducted by the society. With the advancement in Remote Sensing Technology, the society has also grown in disseminating its usages for societal applications. I also hope that the society along with government agencies would bring out ways and means of effective management of hill resources using these sophisticated technologies.

I am also cherished to learn that the society's journal "**Journal of the Indian Society of Remote Sensing**", is also completing 50 years, this year. It is one among the oldest and premier journal in the country. This was possible with the selfless services rendered by the society members.

I extend my best wishes on the occasion of the Golden Jubilee celebrations of Society and its journal.



(Pushkar Singh Dhama)

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Sh. Somanath. S
Chairman



Indian Space Research Organisation
Department of Space
Government of India

February 17, 2023

Message



I am happy to note that the Indian Society of Remote Sensing (ISRS), which was set up with the vision of imparting knowledge in Remote Sensing, Geospatial Applications, Photogrammetry and Photo Interpretation, is celebrating its Golden Jubilee. It gives me great satisfaction and pride to look back at the activities of ISRS in reaching out the achievements of Indian space programme in general and the remote sensing applications in particular to a large number professional.

ISRO had close association with the society since its inception in 1969, where a number of ISRO officials have provided their valuable contribution towards the growth of the society. ISRS has also contributed in several ways to develop the space ecosystem in the country by bringing together space scientists, academicians and industry under one umbrella. The society is becoming more relevant today as the country is in the midst of bringing vibrant reforms in the space sector, through the larger participation of non-governmental entities in end-to-end space activities.

I am also happy to note the international collaborations of the society with the International Society of Photogrammetry and Remote Sensing (ISPRS) and with the Asian Association for Remote Sensing (AARS).

I convey my best wishes and greetings to all my fellow colleagues and the members of the Executive Council of ISRS and Editorial Board of Journal of the Indian Society of Remote Sensing (ISRS) both past and present, on completion of 50 Golden Years of service to the nation and wish success in all their future endeavours.


(Somanath. S)

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GOLDEN JUBILEE CELEBRATION

Sh. Shantanu Bhatawdekar

Outstanding Scientist &
Scientific Secretary



Indian Space Research Organisation
Department of Space
Government of India

February 17, 2023

Message



I am pleased to learn that the Indian Society of Remote Sensing (ISRS) has completed 50 years of service to the Nation in the field of Remote Sensing and Allied Technology.

A milestone in the history of Indian Photo-Interpretation Institute (IPI) was laid with the successful organization of the first symposium on the theme "Application of Photo-interpretation and Remote Sensing Techniques for Natural Resources Survey and Environmental Analysis" in Dehradun from October 08-10, 1980 under the presidentship of Wg. Cdr. K. R. Rao, then President of IPI. Since then, the society has been successfully conducting symposiums and annual conventions regularly in the field of remote sensing and aerial photo interpretation.

I am also happy to learn that the Journal of the Indian Society of Remote Sensing with its inception in 1973 as "Photonirvachak" has become one of the premier journals in the country, and has a wide distribution with a large audience and readership. This is made possible with the selfless services rendered by the society members and the office bearers of the Journal over these years.

I extend my best wishes for the success of the Golden Jubilee celebrations of Society and all its future endeavours towards benefiting remote sensing and geospatial community.

(Shantanu Bhatawdekar)

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Dr. M. Ravichandran
Secretary, MoES



Ministry of Earth Sciences
Govt. of India

Message



Space Technology has contributed immensely to the society. The demand for weather/climate information is increasing day-by-day in all spheres of human life. The availability of satellite datasets has played crucial role in the initialisation of the numerical weather prediction models. It has improved the quality of weather and climate services disseminated to the common a man and save many lives in the recent years. Further, the technology has unveiled many new findings of the north and south poles.

I appreciate the efforts made by the Indian Society of Remote Sensing in spreading and promoting the knowledge of geospatial technology among users and professionals through their annual symposium and conventions. The Journal of the Indian Society of Remote Sensing played crucial role in taking this technology to young researchers and professionals. Ministry of Earth Sciences has supported the activities of the ISRS in numerous occasions. I am confident that the society will continue their efforts in promoting this important science for the societal benefits.

I extend my warm greetings and best wishes on achieving very important milestone of 50 years of service to nation.


(M. Ravichandran)

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Ajay Tirkey

Secretary
Department of Land Resources



Department of Land Resources
Ministry of Rural Development
Government of India

Message



I am extremely happy to know that the Indian Society of Remote Sensing has completed 53 years of its establishment. Remote Sensing technology has important role to play in Planning, transformation, management and conservation of Land Resources. Mapping the natural resources for a country like India was a herculean task before the era of satellite remote sensing. With time, as the remote sensing satellite sensors improved, the society keeps on promoting and spreading the knowledge of assessing and mapping the land resources through advanced space technology. This advancement has extensively helped the organisation in proper land management especially the land records. I am glad to learn that the symposiums organised by ISRS society included aspects of land resources.

The Journal of the Indian Society of Remote Sensing further took this field of science to the professionals. I am really happy to note that the journal has also completed 50 years. The research papers of the Journal have immensely supported the professionals to implement the geospatial technology in an effective manner to understand land resources. Specifically, the recent compilation on drone technology will help the users to better maintain the land resources.

As mostly the schemes of the Department of Land Resources are aligned to this important technology, I am sure that the ISRS and its Journal will put all their effort to meet the requirement of the society and the government, in future as well. I wish to add that the Department of Land Resources has taken up big computerization and digitization initiatives in Land Records management in the country. As a result of which almost 93% of the Record of Rights are computerized and 70% of village maps are digitized. Further, a Digital Land Governance reform by way of Bhu-Aadhar or Unique Land Parcel Identification Number (ULPIN) has been launched and 26 States/UTs have on-boarded Bhu-Aadhar/ULPIN. This digital

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reform will usher in a sea change in governance in practically all sectors. Bhu-Aadhaar or ULPIN (a 14 digit Unique ID which is assigned to each land parcel) will fast track Gati Shakti, Land Acquisition, Hydel Projects, infrastructure Projects on the one hand and will ensure targeted delivery of services in Minimum Support Price Procurement, EWS based Schemes, Mortgages and Loans through financial institutions to name a few.

I congratulate the entire team of Indian Society of Remote Sensing and its Journal on achieving this important milestone.

I wish the Golden Jubilee Celebration a grand success!

(Ajay Tirkey)

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INDIAN SOCIETY OF REMOTE SENSING
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Dr. Prakash Chauhan

President, ISRS / Director, NRSC



Indian Society of Remote Sensing

15.02.2023

Message



It gives me an immense pleasure and satisfaction that the Indian Society of Remote Sensing (ISRS) with its establishment in 1969 as the "Indian Society of Photo-Interpretation" has successfully completed more than 53 years of its existence. During these 50+ years, ISRS has done remarkably well to achieve its main objective of advancement and dissemination of remote sensing technology and education by conjunctive use of remote sensing with conventional methods in the fields of survey, planning, and management of natural resources and the environment. It has successfully organized its annual seminars/symposia since 1980 and published its journal since 1973 along with many bulletins, proceedings, and books.

Indian Society of Remote Sensing (ISRS) has a research journal, known as the Journal of the Indian Society of Remote Sensing (JISRS), which is a flagship publication of ISRS and is a premier Indian journal in the field of remote sensing. With its initiation as "Photonirvachak" in 1973, today it has grown to a monthly publication with a wider distribution, readership, and recognition around the world. It is one of the oldest journals in the country to complete its 50 years, and has achieved a unique distinction of having one of the highest impact factors among Indian scientific journals and having a readership of more than one lakh on annual basis.

The strong and ever growing association of ISRS with International Society of Photogrammetry and Remote Sensing (ISPRS) and Asian Association on Remote Sensing (AARS) also helped its members and Indian remote sensing community to gain wider recognition at international level. Organisation of highly successful five ISPRS mid-term symposiums and three AARS symposiums are testimony of these international linkages.

A special thanks to Department of Space and its centres, units, along with other ministries of Government of India, who have

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provided all the support over the years for many events of ISRS, be it initial grants for the publication of 1st issue of "Photonirvachak" in 1973, annual symposiums of ISRS and international workshops and seminars. I would also like to thank the geospatial industry and academia, who has supported ISRS and our JISRS over the years.

I am sure this golden jubilee celebration event will further motivate all ISRS members and remote sensing professional at large, to work hard and provide all their selfless support for achieving and maintaining the high standards set in these 50 years. I convey best wishes to all ISRS members on this joyous occasion and may ISRS and JISRS achieve bigger heights in next 25 years.

(Prakash Chauhan)

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Dr. Shailesh Nayak

Editor-in-Chief, JISRS / Director NIAS



National Institute of Advanced Studies

Message

ISRS - Marching On



It is real pleasure to write about reminiscences about my association with ISRS. It started when I attended a symposium in IIRS in 1981 along with some colleagues from SAC and learned about the society. Thereafter, many of us in SAC became life members of the society. Subsequently, Dr. Baldev Sahai took a lead and organised a symposium on water resources at SAC in 1983 very successfully. It was for the first time that the proceedings with full papers was published at the time of the symposium. This practice continued for few years. At the same time, a need was felt to set up local chapters to spread the utility of remote sensing throughout the country. The constitution was modified, so that local chapters can be set up.

The first chapter came up in Ahmedabad in 1983 and led the way to propagate remote sensing and its applications in specifically in Ahmedabad and Gujarat. The successive leadership of the Ahmedabad chapter has ensured its stellar position in conducting scientific as well as outreach activities among all chapters in the country. Subsequently, many Chapters were set up in the country and society became pan-India. The idea of conducting annual convention in the different parts of the country has helped substantially to spread remote sensing activities from north to south and east to west.

During the early nineties, the activities of the society increased and decided to become member, representing India, of the International Society of Remote Sensing and Photogrammetry (ISPRS). SRS became Category 8 member (highest) and pursued its activities through this international forum. The ISRS provided a leadership to many ISPRS commissions and working groups. Many mid-term symposia and workshops were organised as part of ISRS-ISPRS activities. One of the major activities include the analysis of CARTOSA T - 1 data by international researchers under the aegis of TC IV of ISPRS. The results of the scientific analysis of CARTOSAT



data were published which brought laurels to the country. ISRS also organised ISPRS Council meetings in India and earned lot of goodwill of ISPRS leadership. ISRS members are providing their services to other ISPRS platforms such as ISPRS Foundation and International Science Advisory Committee (ISAC) of ISPRS. At the same time, ISRS also started taking active interest in affairs of the Asian Association of Remote Sensing (MRS) and organised Asian Conference of Remote Sensing (ACRS) in India. ISRS members are serving MRS as well. All these activities received acclaim from national and international remote sensing communities.

The success of the ISRS is essentially due to its democratic set up, dedication of ISRS members, adhering to the constitution and following strict financial discipline. The elections are held regularly and helped participation of members in managing society affairs.

Over the years, the Journal of ISRS has become prime vehicle for publishing scientific results not only from India but global south. The monthly journal attracts publications from more than 50 countries. The income from the journal substantially supports the ISRS activities. But there is still long way to go to become one of the leading journals in remote sensing.

ISRS today has been one of the leading societies of the world. I wish in coming years, we organise ISPRS Congress in India. My greetings to all members of ISRS on its Golden Jubilee.

(Shailesh Nayak)

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Dr. Raj Kumar
President, ISG



Indian Society of Geomatics

Message



Fifty years is a significant milestone, and it is a testament to the hard work and dedication of all those who have been associated with the ISRS over the years. The ISRS has played a vital role in promoting and advancing the study and application of remote sensing and related technologies in India, and has helped to shape the field as we know it today.

Over the past 50 years, the society has grown and evolved, becoming a leading organization in the field of remote sensing and geospatial sciences in India. The Golden Jubilee of the Indian Society of Remote Sensing is a testament to the important role the society has played in the development and dissemination of knowledge related to remote sensing and geospatial sciences in India and achievements made in the field over the past 50 years. It is also a symbol of hope for continued progress and innovation in the years to come in the development and dissemination of knowledge related to remote sensing and geospatial sciences at the global scale.

The JISRS, earlier known as Photonirvachak, a peer-reviewed journal, covering various aspects of remote sensing and related technologies such as geographic information systems and photogrammetry has also grown in last 50 years and is presently one of the leading remote sensing journals in India, with greater penetration in the community and higher Impact Factor in recent times.

On this occasion of the Golden Jubilee, I would like to take this opportunity to acknowledge the tremendous contributions made by the ISRS and JISRS to the field of remote sensing and geospatial sciences in India. Your commitment to the advancement of knowledge and your tireless efforts to promote the exchange of ideas and experience among members have been truly inspiring. During last several years, both ISRS and ISG together have also made great impact in the community through joint events especially organising National Symposia and Annual Convention.

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As ISRS celebrate this historic milestone, entire ISG community, with great pleasure offer a special keepsake to commemorate this momentous occasion of the Golden Jubilee of the Indian Society of Remote Sensing and JISRS.

I wish the ISRS all the best on this important milestone of Golden Jubilee, and look forward to continued collaboration between the ISG and the ISRS in the years to come.

राज कुमार
(Raj Kumar)

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Lena Halounová
President, ISPRS



Message

Congratulations! The Golden Jubilee Celebration of ISRS & JISRS



India is a country which plays an important global role in many areas, Space research and its closely connected activities being one of them. Since 1975, when the first satellite was launched, a total of 114 Indian satellites have followed.

We have to realise that the Indian National Committee for Space Research was established by the Indian Government already in 1962, and the Indian Space Research Organization (ISRO) in 1969. ISRO is known as one of the largest space agencies in the whole world. In 1969, the Indian Society of Remote Sensing was also established.

This is a very brief historical background showing us why India celebrates the 53rd anniversary of one of the oldest scientific organisations in India.

ISRS has been a long-term member of the International Society for Photogrammetry and Remote Sensing (ISPRS). ISPRS has 91 members of which India is one of the strongest. This does not only relate to the fact that India has more than 5000 members but more so to the strong ongoing input the Indian Ordinary Member gives to ISPRS. I would like to stress that India hosted Technical Commissions of Sensors, Platforms and Imagery (TC I) with President G. Joseph in 1996 – 2000, Resource and Environmental Monitoring (TC VII) with President R. R. Navalgund in 2000-2004, Geo-Databases and Digital Mapping with President S. Nayak in 2004-2008, Remote Sensing Applications and Policies with President V. K. Dadhwal 2012-2016, Education and Outreach with President A. S. Kumar and Vice-President P.L.N. Raju in 2016-2022. Altogether, India has hosted thousands of participants from all over the world over the years at symposia organised by various Technical Commission Presidents. The first one took place in Bangalore in 1998 (TC I), the second one was organised in Hyderabad in 2002 (TC VII), the third (TC IV) took place in Goa in 2006, the fourth one was held in Hyderabad in 2014 (TC VIII) and the last was hosted by TC V in Dehradun in 2018. Scientists from India are active also in the present period. Five WG



Chairs and four Secretaries in the ISPRS 2022-26 Technical Commissions are from India. Your support can also be found in the ISPRS Financial Commission, now chaired by A. Senthil Kumar who serves in TIF ExCom (The ISPRS Foundation).

This really is a tremendous input and ISPRS is extremely grateful for your support.

Although I am not able to personally identify and express my and ISPRS gratitude to all of those individuals who have put in so much effort over the years, there are exceptional scientists from your country who have received ISPRS awards for their exceptional work. It is my pleasure to highlight their names so they will also be recorded in the memoirs resulting from this celebration.

The first Indian awardee was U.R. Rao in 2000 who received the Eduard Doležal Award. At the following congress in 2004, the Brock Gold Medal was awarded to K. Kasturirangan, which is the most prestigious ISPRS award, sponsored by the American Society for Photogrammetry and Remote Sensing. The ISPRS Congress in Prague in 2016 was really successful for India. There were two awardees: V. Radhadevi who received the Eduard Doležal Award, and Ajana Vyas whose work was honoured with the President's Citation Award. Also, in Tokyo in 2006, Parvatham Venkatachalam was the winner of CATCON 4.

I would like to congratulate Shailesh Nayak, who has become an ISPRS Fellow in 2012.

Just four years after the foundation of the Society, ISRS also became active in publishing, launching the Journal of the Indian Society of Remote Sensing in 1973.

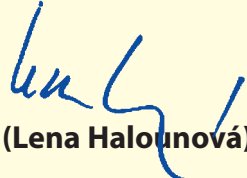
If we look at the development of the Journal, we find that the journal started with one edition per year. However, the scientific development in remote sensing and geospatial sciences in India has brought such a high number of scientific papers that the Journal has been published monthly since 2018.

The papers cover topics of many aspects of remote sensing and geospatial information sciences. I especially appreciate the economic surveys and cost/benefit analysis; they are not very typical for such types of Journals. However, this topic provides evidence in our defence, especially for remote sensing; remote sensing is not a luxury but a very efficient tool.

It is my honour to congratulate all editors, reviewers, and authors on the growth of the research and its publishing. Each paper, each volume is the result of an enormous amount of work from many people. Although only some of them are known, everyone involved in the publishing process is important. All of them deserve our, and my thanks.

I would like to express my deep admiration to the great development of the Indian Society of Remote Sensing and thank the Society for establishing the Journal. The Golden Jubilee Celebration of ISRS & JISRS is an important event, which honours what has been done and which opens the door to the future. Both the Indian Society of Remote Sensing and the Journal of the Indian Society of Remote Sensing can be proud of their achievements.

I am raising a virtual glass to toast with you and wish you much success for the future.


(Lena Halounová)



INDIAN SOCIETY OF REMOTE SENSING
&
JOURNAL OF INDIAN SOCIETY OF REMOTE SENSING
GOLDEN JUBILEE CELEBRATION

KOHEI CHO
General Secretary, AARS



Asian Association on
Remote Sensing (AARS)

February 10, 2023

Message



I still cherish the memories of 38th Asian Conference on Remote Sensing with theme “Space Applications: Touching Human Lives” jointly organised by Asian Association on Remote Sensing (AARS), the Indian Society of Remote Sensing (ISRS) and the Indian Society of Geomatics (ISG) during October 23-27, 2017 at New Delhi, India, which I personally attended. ISRS also supported AARS in organising the 6th ACRS and 15th ACRS those were held at Hyderabad and Bangalore, respectively. I am happy to note that the ISRS, as one of the key Ordinary members of the AARS, has completed long successful journey of 53 years. I also would like to mention the support rendered by Dr. Sameer Saran as Deputy General Secretary of the AARS.

I congratulate the authorities of ISRS on this commendable achievement – golden jubilee celebration. I also extended my wishes to the Journal of the Indian Society of Remote Sensing, which is also completing 50 years, this year.

I am sorry to say that due to an official event at my university, I could not join your celebration. However, my heart is with you. I wish ISRS good luck for all their future endeavours.

Kohei Cho
(KOHEI CHO)



Sh. Sunil Kumar
Surveyor General of India



Survey of India
Department of Science & Technology
Government of India

Message



I am extremely delighted to learn that Indian Society of Remote Sensing is celebrating its Golden Jubilee. In its long journey, society has been extremely successful in its endeavours to spread knowledge about remote sensing and allied technologies for natural resource management.

Survey of India (SOI) has closely associated with society since its inception starting with aerial photo interpretation to satellite imaging. It is one of the patron Institute of the society and has been a partner in the journey of society through its many milestones and achievements. The society has been conducting annual symposiums and conventions frequently in its endeavour to spread awareness and for advancement of the technology covering diverse themes from cartography, topographical mapping, large scale mapping, high resolution satellite images etc. for development of society and country at large.

I congratulate all the members for the significant growth achieved by society's journal "Journal of the Indian Society of Remote Sensing" in its journey of 50 years. The journal is one among the premier journals in the field of Remote Sensing in India. It is due to incessant efforts of society members and partner institutes.

I would like to extend my best wishes to all members of society and journal for Golden Jubilee celebrations and for gaining new heights in future. I am sure that the society along with partner, institutes/agencies would incessantly work to bring new dimensions to spread the knowledge and advancement of the technology.

(Sunil Kumar)

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Dr. Raghavendra Pratap Singh
Director, IIRS & Chairman, LOC



Indian Institute of Remote Sensing
Indian Space Research Organisation
DoS, Govt. of India
February 10, 2023

Message



It is heartening to know that 'Indian Society of Remote Sensing (ISRS)' has successfully completed 53 years of its existence as one of the premier professional scientific societies in the country along with its flagship research journal, known as 'Journal of ISRS (JISRS)' in the field of Remote Sensing, with its initiation as 'Photonirvachak' in 1973.

It is indeed a matter of pleasure to know that both ISRS & JISRS has been a pioneer in supporting advancement of technology and education by conjunctive use of remote sensing with conventional methods in fields of survey, planning, and management of natural resources. The society has been fostering innovation in the field of remote sensing by organising seminars/ symposia and publishing journal, bulletins, proceedings, etc. for harnessing space technology for the societal needs. From its commencement of journey in 1969 as the 'Indian society of Photo-interpretation' with a not-for-profit scientific society, and just 56 members, the society has witnessed an enormous growth with around 5900 membership including both individual and institutional members. The JISRS has also laudably achieved its objective of promoting interaction amongst government departments, researchers, academic institutions, industries as one of the pivotal back-end Institutes of ISRO.

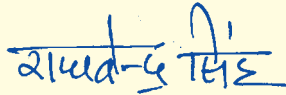
I appreciate the endeavours of ISRS & JISRS in dissemination of remote sensing technology and its applications to a widespread multidisciplinary audience and bringing out continuous improvements through developmental activities for enhanced services, resource optimization and indigenization in promotions of society. ISRS is trusted globally for a very strong and professional relation with the International Society for Photogrammetry & Remote Sensing (ISPRS) and Asian Association of Remote Sensing (AARS).

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It is a proud moment for me to say being Director, IIRS that the significant occasion of Golden Jubilee Celebrations of ISRS & JISRS will be happening on February 24, 2023 at the IIRS Campus to commemorate growth and achievements of this society in its journey since 1969, under motto of 'Serving humanity through Space technology'.

It is sure to be a landmark event and the thoughts and impressions assimilated, will motivate in paving the path for integrated and sustainable planning in future. I wish for a grand success to GJ-celebrations and wish ISRS & JISRS to continue playing a leading role of holding the torch of illumination, giving shape to ideas and fostering innovation for the development of our nation.


(Raghavendra Pratap Singh)

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Shri. Pramod Kaushik
Hexagon India



Message



ISRS is one of the premier professional scientific societies in the country. The way the society has grown into a premier professional body with a membership of more than 5900 in the last 53 years is truly extraordinary. I would like to congratulate all the members on this significant milestone. The role played by ISRS in the advancement and dissemination of remote sensing technology in the fields of mapping, planning and management of natural resources and environment is truly remarkable.

Over the past five decades ISRS has demonstrated a remarkable commitment to innovation and excellence. Remote sensing technology has come a long way from satellite images of coarser resolution to as fine as sub-meter resolution, radar satellite imaging has also come equally a long way. The technology advancement is now addressing almost all problems beyond planning and management to response, saving both time and money.

ISRS has made significant contribution to encourage and undertake research in remote sensing and related technologies. Data-driven knowledge and predictive analysis have never been as handy as they are right now. Technology now provides reliable and actionable information, based on continuous satellite monitoring, to support us in our decisions and operational activities. An eye from space with a down-to-earth and industry-focused design, which provides with insightful knowledge of our assets and businesses, significantly decreasing field labour costs and thus saving a lot of time. Hexagon's industry-leading remote sensing software products are used across the world to collect, process, manage and deliver location intelligence to a variety of users. Our ERDAS IMAGINE is an industry-leading remote sensing software that provides complete tools for imagery and geospatial analysis. It provides true value, consolidating remote sensing, photogrammetry, LiDAR analysis, basic vector analysis, and radar processing into a single product.

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Technology is the “space” assistant for public administration departments and agencies that takes good care of a variety of pressing daily tasks and activities, ranging from urban and territorial planning, environmental reporting, wildfire detection, marine water quality assessment, up to land cover changes. I hope this prestigious society continues to emerge as a great centre of learning and continues to promote interaction among government departments, researchers, academic institutions, and industries so as to enable them to compete with the emerging challenges in remote sensing.

I am sure, the souvenir would aptly reflect the 50+ years of accomplishment of ISRS. I am delighted to send my warm greetings as everyone gathers to celebrate the Golden Jubilee and hope that the collective efforts of all associated would enable it to scale greater heights in the future. Congratulations on this incredible milestone.

(Pramod Kaushik)



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GOLDEN JUBILEE CELEBRATION

Suvira Srivastav

Publishing Director, Journals
Mathematics, Physical and Applied Sciences Journals



Message



53 years of the glorious existence of the Indian Society of Remote Sensing is a success story written by an incredible number of people. Springer Nature is delighted and humbled to be part of this spectacular journey by publishing society's flagship publication—the Journal of the Indian Society of Remote Sensing.

In this half a century of promoting the spirit of research and collaboration, these celebrations are also a solemn occasion to pause and look back at the milestones that we have achieved together. From a quarterly journal that Springer started co-publishing with Volume 36 in 2008, the journal has become a monthly publication, receiving submissions, and enjoying dedicated readership from across the globe. Last year we touched another height when Impact Factor inched closer to 2 mark with 1.894.

In all these years, the journal has consistently dedicated to producing articles that push the edges of scholarship, thanks to the exemplary efforts of editorial board and society management. We would want to take a moment to pay our tribute to their vision and hard work that gave us the foundation for today.

My team is very excited to get an opportunity to support all of you in making our presence felt on global research landscape. We are committed to being a reliable partner in ensuring that the journal continues to attain new heights.

(Suvira Srivastav)



Fostering human progress through knowledge

Celebrating 25 years in India

Dr. Gagandeep Singh

Taylor & Francis Books India Pvt Ltd.

Message



“We would like to take a moment to acknowledge our long-term association with your esteemed organization, Indian Society of Remote Sensing (ISRS). Our partnership has truly taken Indian research to the next level, and we are honoured that together, ISRS and Taylor & Francis have produced content that puts local scholarship out for global consumption.

We are very thankful for the part that ISRS has played in this, and we are forever grateful for the strength of the high-quality content that this partnership has added to our portfolio. We are committed to boosting knowledge availability and making your research reach a wider audience of academicians, institutions, and researchers.

We hope to continue to grow with you – here’s to an enduring partnership”.

(Gangandeep Singh)



GOLDEN JUBILEE CELEBRATION

HISTORY





Dr. Kasturirangan laid the foundation stone of ISRS Building



ISRS Silver Jubilee Celebrations Report – February 1995

INDIAN SOCIETY OF REMOTE SENSING- HISTORY REVIEW

Prof. B. M. Singh
Former Secretary, ISRS

The Indian Society of Remote Sensing owes its origin to the Indian Photo-interpretation Institute (IPI). The Institute was established in the year 1966 on a bilateral Indo-Dutch collaboration for conducting courses in the interpretation of aerial photographs for Geology, Soils, and Forestry. The first phase of the project came to a close in June 1972. By this time 286 officers of various Government departments, universities, and public undertakings were trained at the Institute. This community of trained personnel required not only close interaction among themselves but also with their alma mater, the IPI, and necessitated the formation of a scientific society.

According to Col. J.N. Sinha (1973), the idea of establishing the Society of Photo-interpretation and publishing a Journal devoted exclusively to the research and development activities in the fields of photogrammetry, photo-interpretation, and remote sensing was engaging the attention of scientists at IPI. The first step in this direction was taken in 1969 when 56 founder members met and were formally enrolled. It was only in 1973 that the Society could get itself registered and the first council was formed with Dr. M.K. Roy Chowdhary as President, Col. J.N. Sinha as Vice President, Prof. T.R. Srinivasan as Hon. Secretary and Professor A.K. Roy as Treasurer. The first volume of the Society's Journal named "Photonirvachak" was a cyclostyled volume priced at Rs.2/- and its Editor was Prof. B.N. Raina. Thereafter the Journal is being issued free to its members.

The period 1974-78 was a period of transition for society in many respects. Indian Photointerpretation Institute was shifted to its new building. Col. J. N. Sinha retired and Professor B.N. Raina left the organization. Prof T. R. Srinivasan took voluntary retirement and Prof. R.P. Sharma became the Hon. Secretary but the sad demise of Prof Sharma left a void which was filled later by Prof H. S. Iyer who was the Treasurer. Meanwhile, major changes were taking place in the field of remote sensing with the emergence of the new tool i.e. satellite image. Experiments carried on at IARI and NRSA proved that satellite images could contribute reliable, accurate, and timely information to scientists, engineers, and planners. Apollo pictures received by IPI were very exciting and the first printed volume of the society included an article on image analysis followed by a very systematic effort made by Prof. Srinivasan for making use of satellite images for soil surveys, years ahead of the American scientists who presented the idea-of low-intensity soil surveys (1981). During this period of transition, the entire responsibility of running the society was borne by Prof. H.S. Iyer, acting as Hon. Secretary. Prof. D.P. Rao and later



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Prof. A. Bhattacharya served as Editors of the Journal during this crucial period. Here it may be noted that the management of the society was in the hands of the Soils Division and publication in the Geology Division of IPI. The period of transition was also a period of financial crisis for the society. Society never aimed to be grants-dependent, but rather made sustained efforts to build up its own resources. This led to increase in membership to 225 including 41 sustained members by the end of 1980. A breakthrough occurred when Col. P. Misra, Vice President suggested the idea of holding a seminar. The objectives were twofold, to energize society and to demonstrate the use of satellite remote sensing. The seminar proved to be a landmark as it resuscitated society both financially and technically. Wg. Cmdr. K. R. Rao who happened to be the President encouraged NRSA scientists to contribute papers for the Journal and the society attained a stage when it had to come out of the coterie IPI campus to a wider group of scientists engaged in remote sensing. The period that followed resulted into widespread changes that led to its present form. The changes started with renaming the society.

The name of the society which was hitherto Indian Society of Photo-interpretation was changed to Indian Society of Photo-interpretation and Remote Sensing which happened to be a short-term phenomenon as it was later on changed to Indian Society of Remote Sensing. Remote Sensing was also added to the name of the Journal although 'Photonirvachak' was retained in a subdued form even till today. But the major breakthrough came by forming a constitution amendment committee under the Chairmanship of Dr. Baldev Sahai. Dr. Sahai consulted the memorandum of a number of societies and almost single-handedly drafted a new constitution. The salient features of the Constitution were:

- Election of office bearers of the society through postal ballot paper. Under the old constitutional elections were held by show of hand in the general body meeting which was poorly attended. It was difficult to find out office bearers who could handle the affairs of society. Members who volunteered their services were generally elected. The process of ballot paper provided an opportunity for all the members to cast their votes.
- Changes in society's rules through postal ballot papers. Any constitution is not a static document. When changes are desired at a particular time, it is necessary to amend the constitution. Postal ballots paved the way to collect the opinion and consent of members.
- Opening of chapters- The new constitution provided the opening of chapters on a zonal basis. This has given a new dimension to the society truly of national character.

A number of reforms could be made possible only as a result of constitutional change.

The exercise of the reforms was further carried forward by Dr. Baldev Sahai who took over as the first President elected through ballot papers. His close association with society has continued in one form or other even till day. Dr. Sahai had a vision and he not only succeeded in putting society on a firm footing but also in providing conventions and traditions that any institution needs to develop its image. At one stage it was felt that the society's headquarters would be shifted to Hyderabad but only on account of his farsightedness that the society continued to function from Dehradun from the campus



of a leading training institution in Remote Sensing. He has supervised almost everything and the keen interest taken by him has helped in shaping a powerful organization.

A great step forward was taken by Dr. L.R.A. Narayan during his tenure as President. It was the organization of the seminar at Visakhapatnam. The seminar was organized on a grand scale. But the tragedy struck again immediately after this great event. Prof H. S. Iyer expired leaving society again rudderless. But Society moved forward in the new direction that was already set.

It has been to the credit of Prof. B.L. Deekshatulu who became President in 1989, to bring Society to its present dimension. Prof Deekshatulu made a sustained effort by introducing Indian National Award on Remote Sensing, the Vikram Sarabhai Memorial lectures, and the celebration of remote sensing day throughout the country on the birthday of Vikram Sarabhai. During his tenure as President, society came in very close contact with the Department of Space. The interest shown by the department resulted in all-around development.

At Lucknow, Prof P.P. Kale planned and designed the whole event immaculately reflected the style of the function of the Department of Space. The Chief Minister of U.P. Shri Kalyan Singh has come out with the announcement that he would have full support to remote sensing activities and try to remove whatever bottlenecks come in the way of its application.

Prof. P.P. Kale as the President ISRS has left a lasting impression on society through his professional approach and his dynamic and immaculate style of functioning, which was reflected in the two symposia held at Lucknow and Guwahati during his tenure. It was he who resisted the suggestion of moving the headquarters to Ahmedabad and made persistent efforts to anchor Society at Dehradun by insisting on acquiring its own land and building. His efforts bore fruits when the Chairman, ISRO, and Director, NRSA assured the addition of office space exclusively for the Society in the future building plans of IIRS. An intensive enrolment drive initiated by Prof. Kale has resulted in increasing the membership of the Society from 1140 to 1500 which is still fast moving up. It was his far-sighted approach that has led to the acquisition of a PC and a Postal Franker for the society office.

During the period of transition and growth, solid support provided by Prof. S.K. Bhan, Head IIRS, as the Honorary Secretary, has all along resulted in the smooth functioning of the Society, It was due to him that regular manpower was provided. Shri Hari Kumar, unparalleled in many respects joined the society, as its first employed manager and the efforts made by him towards the maintenance of the office, records of the society, and correspondence have greatly increased working efficiency especially when the workload has increased manifold.

Apart from the above, a large number of scientists have given support, direction, and guidance to society whose contribution cannot be ignored while accounting for the historical perspective. True strength come through interest and selfless service. It is hoped that the process of building up society as a strong and vibrant organization continues as it marches toward the Golden Jubilee.



GOLDEN JUBILEE CELEBRATION

JOURNEY OF ISRS
1995 ONWARDS ...





Dr. George Joseph being felicitated by ISRS during National Symposium - 2016



INDIAN SOCIETY OF REMOTE SENSING (ISRS) - JOURNEY SINCE 1995

**Compiled by: Secretaries,
ISRS (1995 – 2022)**

In the last almost three decades of its journey, since the celebration of its “Silver Jubilee” in the year 1995, ISRS has made remarkable growth in its programs and activities. An attempt has been made here to systematically highlight major milestones progressively achieved by the society in the recent past.

The headquarter of the society is located within the IIRS campus. The Department of Space Govt. of India has provided a separate building space for ISRS, and the new ISRS building was inaugurated on March 25, 1998. Since then the infrastructure of the society’s office was strengthened from time to time. The major renovation of ISRS HQ was undertaken during 2021-22, which included civil work by IIRS and augmentation of furniture & fixtures, IT infrastructure etc. by the society. The redecorated office of ISRS HQ was inaugurated on the 28th June 2022.

During this period (1995-2022), the constitution of the society was amended few times to keep pace with the emerging scenarios. The role and responsibilities of the 1st and 2nd Vice presidents were well defined. Realising that President of the society needs secretarial support, the electoral rule was amended to allow selection of the joint secretary from the same city for better coordination of activities. The scope of the National executive council was enhanced by giving representation from academia and industry, by nomination of their representation. Considering the merits, e-voting found to be a transparent, convenient, timely, and cost-effective means of conducting election and increasing participation of more voters in elections, ISRS constitution was amended to adopt e-voting instead of ballot paper for the executive council elections. For this, the opinion of the members was taken through e-survey and based on the majority of votes, necessary amendments were made in the constitution of ISRS to adopt e-voting mechanism.

Journal of the Indian Society of Remote Sensing (JISRS) the flagship journal of the society has also achieved impressive increase in its impact factor in the recent years. Thanks to the untiring efforts of its editorial board for this. The editorial board of the JISRS has been restructured considering its monthly publication and increasing load of handling the editorial processes and bringing the issues on time. The current editorial board includes the Editor-in-Chief, Editor, Executive Editor, Managing Editor and Associate Managing Editor along with Associate Editors. The position of Associate Managing Editor is a full time paid position in the society. With increase in number of issues and its widespread circulation, a significant royalty is received from Springer on annual basis. This enriches significantly to the financial health of society. The members of ISRS have free online access to the journal via ISRS website.



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ISRS signed an MoU with Taylor and Francis (T&F) on 29th March 2018 for the next 5 years for the joint publication of books/monographs. The proposals for publication of books/monographs on remote sensing-related themes are invited from the life members of ISRS. An expert committee constituted by Editor-in-Chief undertakes the review of book proposals. This initiative has received overwhelming response and, so far, five books have been published, and another seven books are due for the publication shortly.

ISRS continued the tradition of organising national symposium annually. During 2001, it was decided to hold annual general body meeting of the society on the eve of the annual symposium. This tradition is being continued till date which gives an opportunity to the Symposium Organizing Committee and ISRS members to meet with the ISRS-EC. In 2011, ISRS and Indian Society of Geomatics (ISG) decided to organise national symposium jointly. This move offer an opportunity to hold their respective annual conventions together where ISRS and ISG takes alternate lead in every second year. ISRS has been organising symposia on themes addressing the contemporary advancement in space technology and pressing problems of the society. The following space technology and applications themes were covered in the past symposium viz., national resources management, green revolution, special themes on North East Region, North West Himalaya and mountain ecosystems, environment monitoring and management, water management, natural hazard management, high resolution imagery, national development, sustainable development, microwave remote sensing, food and environmental security, marine and coastal dynamics, digital India, and geospatial technology: journey from data to intelligence.

Over the years, ISRS has successfully able to popularized space technology and to hold awareness generation activities across the country. Every year, the National Remote Sensing Day (NRSD) on 12th August, is being celebrated combinedly where the national body takes the lead and the local chapters join with the celebrations. In addition, the local chapters also organize separate programs, as NRSD is one of the mandatory activities of ISRS, since 1999. Recognizing the contribution of ISRS in mass scale organization of the National Remote Sensing Day, in 2017, the Department of Science and Technology (DST) awarded ISRS with the National Award for spreading scientific awareness through electronic means.

During the last three decades, more and more awards have been institutionalized by ISRS. The amount of award money was also increased. These awards are meant to recognize researchers and motivate and enlarge remote sensing and geospatial community. It includes the Bhaskara Award, Satish Dhawan Award, National Geo-Spatial Award for Excellence, renaming of Indian National Remote Sensing Award to P. R. Pisharoty Memorial Award, Indian National Geo-Spatial Award, ISRS Best Chapter Award, President's Appreciation Award, along with the introduction of Young Achiever Award and induction of Fellows and Honorary Fellows.

A new initiative was taken in 2002, to create a dedicated website for ISRS. This website (www.isrsindia.org) was maintained by the Ahmedabad chapter. The major upgrade and creation of new ISRS website was done in 2016 (<https://www.isrs-india.org/Default.aspx>), with many new features. The new website contains, online ISRS member's database,



online membership form with digital payment option, list of ISRS events, YouTube link of important events including Vikram Sarabhai memorial lectures, ISRS awards, list of past and present ISRS- EC and JISRS-editorial board members, online form for submission of book proposals and invitation to be the reviewer for JISRS, and unique section for ISRS chapters as well as individual members. The full online access of all issues of JISRS is freely given to all life and patron members of ISRS via a user name and password, which can be generated via the new ISRS website.

The society membership increased steadily over the last 28 years. ISRS had 1356 Life members in February 1995, which has increased to around 6000 life members, 51 fellows, 15 honorary fellows, 61 patron members and 26 annual members to date. ISRS has now twenty-seven (27) local chapters within the country. ISRS also took a new initiative by organising the first ISRS Conclave with Secretaries of all Local Chapters on January 18, 2020 at IIRS, Dehradun.

ISRS has been active in supporting International Society of Photogrammetry and Remote Sensing (ISPRS) in its objectives of promoting international co-operation, co-ordination and advancement of Geospatial technology and related sciences to improve quality of mankind by sustainable natural resources development and environmental management. ISRS has a status of an ordinary member under category 8 from 1995-2002, category 6 during 2003-2011 and again to category 8 from 2012 to till now. During 1995 to 2022, ISRS have hosted five Technical Commissions (TC) and led many working groups. ISRS have successfully organized five ISPRS mid-term symposiums and workshops viz., Technical Commission I – Sensors, Platforms and Imagery (1996-2000); Technical Commission VII – Resource and Environmental Monitoring (2000-2004); Technical Commission IV – Geodatabases and Digital Mapping (2004-2008); Technical Commission VIII – Remote Sensing Applications and Policies (2012-16); and Technical Commission V – Education and Outreach (2016-2020).

ISRS has made a contribution of \$10000/- to ISPRS foundation in the year 2021-22 for supporting participation of young researchers from Asian countries in ISPRS events. ISPRS duly appreciated and acknowledged ISRS for this contribution in the ISPRS Congress at Nice, France. With this, ISPRS foundation sponsored 13 Indian students to attend the ISPRS Congress 2022 at Nice, France.

ISRS has a long association with Asian Association of Remote Sensing (AARS), Japan. ISRS is an ordinary member of AARS. ISRS has successfully conducted Asian Remote Sensing Conference (ACRS) in the 6th ACRS at Hyderabad in the year 1985, 15th ACRS in Bangalore in the year 1994 and 38th ACRS at New Delhi in the year 2017. ISRS is regularly participating in the ACRS organised in different Asian countries. ACRS elected a deputy secretary general position from ISRS in 2019. Recently, ISRS has sponsored the "ISRS Asian Geospatial Award" to be given in the ACRS every year by ISRS for outstanding contribution by any Asian in the field of geospatial technology.

ISRS also organized the SPIE (the international society for optics and photonics) conference in New Delhi during April 2016, in which the heads of seven leading space agencies of the world participated and large number of high quality technical papers and poster were presented.



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The tremendous growth of ISRS and its journal JISRS in the last 28 years has been possible due to untiring efforts and dedication of all its members, its EC members, former and present Dean and Director's of IIRS, former Director's of NRSC, SAC and ISRO chairman and all chapters EC members. They have provided full support to all major events of ISRS. The unwavering support of Government of India and various ministries, remote sensing and geospatial industry along with academia and scholars have been whole heartedly supporting this progressing journey. The critical role and efforts of many scientists, academia including faculty of IIRS, IITs, NITs, universities, etc., editorial board of JISRS, and numerous reviewers of JISRS along with Springer also need special mention for the significant growth and improved quality of our "international" journal.

As we enter the next 25 years as "Azadi ka Amrit Kaal", it is our responsibility and aspiration to further fulfill the core objectives of society and strive for achieving excellence to make ISRS one of the leading international scientific societies of world. The selfless service and dedication of its members will lead us to march towards the glorious platinum jubilee of society.



INDIAN SOCIETY OF REMOTE SENSING: ACHIEVEMENTS

Dr. Praveen K. Thakur
Secretary, ISRS

Introduction

The Golden Jubilee Year is a major landmark in the history of any organization. The Indian Society of Remote Sensing (ISRS) has completed more than 53 years by now and our official Journal is completing its 50 years of existence in 2023. This is the occasion to celebrate these glorious past years, and plan for the next 25 years, to maintain the highest standards of performance and meet the expectation of society in these changing times.

Snippets from Silver Jubilee Celebrations: *“When one wades through the old files and records of the Society, one could feel its fluctuating pulses and visualize its initial struggle for survival against all odds, the setbacks, and hiccups that it experienced, and also the dedicated efforts of a few individuals not only to keep it alive but also to nurture it to a healthy and strong organization with a broader base” K. V. Ravindran (1995).*

Indian Society of Remote Sensing (ISRS) was established in 1969 with the main objective of advancement and dissemination of remote sensing technology in the fields of mapping, planning and management of natural resources and environment by organising seminars/symposia and by publishing a monthly journal, bulletins, proceedings, etc. Starting with few founding members in the year 1969, the Society has now grown into a premier professional body with membership of over 6000 members. Currently, ISRS is a member of the International Society of Photogrammetry and Remote Sensing (ISPRS) and Asian Association on Remote Sensing (AARS). This report is aimed at highlighting a brief account of the growth of society since 1995, the silver jubilee celebration.

The second half of 1990's and up to 2005 was time of many firsts of the society. The new building of ISRS at IIRS campus in 1998, a strong association with International Society of Photogrammetry and Remote Sensing (ISPRS), institutionalization of Bhaskara and other awards, national remote sensing day celebration on 12 August each year, special publications in the form of monographs, and creation of new website of ISRS, were the main landmark events during this time.

The time from 2006-2015 also marked few major changes in overall functioning and growth of the ISRS and specially the journal of ISRS. To name a few the organization of two ISPRS mid-term symposiums, the liaison and partnership with our sister society, the Indian Society of Geomatics (ISG) for joint national symposiums, the transition of Photonirvachak to JISRS SCI journal with Springer as official publication partner.

The period during 2016-till date also marked with some major milestones in the progressive journey of ISRS and its flagship journal. The grand and highly successful



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organization of annual symposiums of 2016, 2019, and 2022, ACRS-2017, ISPRS-2018, the impact of Covid-19 forcing the transition of ISRS to conduct online webinars and symposiums during 2020-2021, the tremendous growth of JISRS with annual submission increasing from ~400 per year to about 1000 per year, royalty income from Springer and, MoU with Taylor & Francis for publication of books, are few of such events.

These achievements loudly speaks volumes about the exponential increasing growth of the society. If the society has grown up into a formidable professional body today, the credit should go to the dedication and selfless services of many of the past office bearers who steered the society from time to time. (A list of all past office-bearers is given in Table I).

Membership and Chapters

The society, which founded with 56 members, has since come a long way and today it has about 6000 members both national and international. Initially, there were four categories of members, viz, the life members, associate members, corporate members, and sustaining members. Except for the life membership, all other memberships were annually renewable. Later, in 1983, the Constitution of the Society was amended to abolish associate and corporate memberships and to introduce in its place the annual membership. Patron membership was also introduced for institutions on a long time payment basis. (Figure I shows the membership position from 1973 onwards).

Considering the increase in membership in the year 1980, the need was felt for

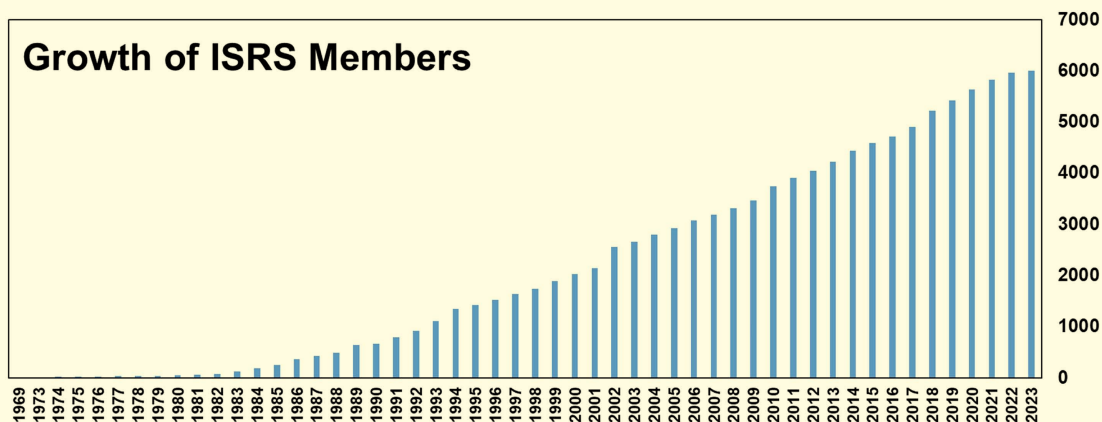


Figure I: Membership Position of the Society
(As on February 15, 2023)

establishing local chapters of the society for providing a common platform for the members stationed at the same city. The constitution of the Society was amended accordingly, and the first Chapter was formed in Ahmedabad in 1984. The Ahmedabad Chapter, the oldest and the largest one, is a very active chapter which also brings out a newsletter "Signature" regularly based on the activities and research.

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Table-1: Office Bearers of the Society from 1973 to 2022

Period	President	Vice President	Secretary	Jt. Secretary	Treasurer	Members	Ex-Officio
1973-74	Dr. M.K. Roy Chowdhury	Col. J.N. Sinha	Mr. T.R. Srinivasan	Mr. A.K. Roy	Dr. K.G. Tejwani	Prof. Dr. R.N. Colwell-Honorary Member	-
1975-77	Col. J.N. Sinha	Mr. R.C. Ghosh	Mr. T.R. Srinivasan	-	Mr. Ratna Singh	Prof. Dr. R.N. Colwell-Honorary Member	Dr. M.K. Roy Chowdhury
		Mr. R.C. Ghosh				Dr. R.L. Karale	
		Dr. K.G. Tejwani				Lt. Col. L.R.A. Narayan	
1977-78	Mr. V.K.S. Vardan	Dr. S.C.D Sah	Mr. R.P. Sharma	-	Mr. H.S. Iyer	Mr. R.L. Nanda	Col. J.N. Sinha
		Lt. Col. R.K. Aggarwala				Dr. R.L. Karale	
		Dr. S.C.D Sah				Dr. R. Vaidyanathan	
1978-79	Mr. V.K.S. Vardan	Dr. S.C.D Sah	Mr. H.S. Iyer	-	Mr. H.S. Iyer	Mr. K.P. Tiwari	Col. J.N. Sinha
		Lt. Col. R.K. Aggarwala				Dr. R. Vaidyanathan	
		Dr. S.C.D Sah				Mr. K.P. Tiwari	
1979-80	Wg. Comd. K.R. Rao	Col. P. Mishra	Mr. H.S. Iyer	Mr. A.K. Roy	Mr. R.K. Saxena	Mr. L. Venkataraman	Mr. V.K.S. Vardan
		Mr. Y.P. Bali				Mr. M.M. Nair	
		Prof. P. Misra				Dr. R.A. Chansarkar	
1981-83	Prof. P.D. Bhavsar	Prof. P. Misra	Mr. H.S. Iyer	Dr. N.S. Virdhi	Prof. B.M. Singh	Sh. R.K. Saxena	Wg. Comd. K.R. Rao
		Dr. (Lt. Col.) L.R.A. Narayan				Sh. M.D. Shedha	
						S.C.D. Sah	
						Sh. Pratap Singh	
						Sh. R.P. Sharma	
						Dr. Baldev Sahai	
	Sh. K. Krishnanunni						
		Dr. P.V.L.P. Babu					



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Period	President	Vice President	Secretary	Jt. Secretary	Treasurer	Members	Ex-Officio
1984-86	Lt. Col. (Dr.) L.R.A. Narayan	Dr. Baldev Sahai Dr. R.L. Karale	Prof. B.M. Singh	Dr. M.S. Kuhad	Dr. Jitendra Prasad	Dr. R.V. Rama Rao Sh. O.P.N. Calla Prof. D.P. Rao Dr. R.S. Ayyangar Sh. A.N. Singh	Prof. P.D. Bhavsar
1986-89	Dr. Baldev Sahai	Dr. R.V. Rama Rao Dr. M.L. Manchanda	Sh. S.K. Bhan	Sh. A.N. Singh	Dr. Jitendra Prasad	Dr. M.S. Kuhad Sh. Y.V.S. Murthy Dr. B.S. Sangwan Sh. G.S. Oberoi Sh. K.M. Saini Prof. R.S. Chaturvedi Dr. T.A. Hariharan Dr. D.P. Rao	Lt. Col. (Dr.) L.R.A. Narayan
1990-91	Prof. B.L. Deekshatulu	Dr. R.A. Chansarkar Dr. R.P. Dhir	Prof. B.M. Singh	Sh. J.S. Parihar	Sh. I.J. Dhingra	Prof. A.K. Roy Sh. G. Behera Sh. K. Krishnanunni Sh. M.G. Chandrasekhar Sh. S.P. Gawande	Dr. Baldev Sahai
1992-94	Sh. P.P. Kale	Dr. P.K. Sharma Prof. A.K. Roy	Sh. K.V. Ravindran	Sh. S.R. Nayak	Sh. I.J. Dhingra	Dr. J.L. Sehgal Dr. B.K. Sinha Dr. S.K. Shukla Brig. A.M. Chaturvedi Sh. M.G. Chandrasekhar	Prof. B.L. Deekshatulu
1994-1996	Dr. George Joseph	Prof. S.K. Bhan Sh. G.S. Srivastava	Sh. K.V. Ravindran	Dr. Shailesh Nayak	Sh. A.P. Subudhi	Dr. R. Nagarajan Dr. P.K. Sharma Sh. T.S. Kachwaha Dr. Y.V.N. Krishnamurthy Sh. M.G. Chandrasekhar	Sh. P.P. Kale
1996-98	Dr. D. P. Rao	Dr. R.R. Navalgund Shri P. Subba Rao	Prof. L.M. Pande	Shri Mukund Rao	Shri S.C Gupta	Dr. S.N. Das Dr. Surender Singh Brig. A.M. Chaturvedi Prof. A.K. Chakraborti Dr Baldev Sahai	Dr. Gerge Joseph

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1998-2000	Dr. M.G. Chandrasekhar	Dr. A. Perumal Shri K.V. Ravindran	Prof. L.M. Pande	Shri Mukund Rao	Shri S.C Gupta	Dr. S.K. Subramanian Dr. Ramesh P. Singh Shri Prasanna Kumar Shri J.S. Parihar Dr. A.K. Sinha	Dr. D.P. Rao
2000-02	Shri S.K. Bhan	Shri J.S. Parihar Shri Mukund Rao	Shri B.S. Sokhi	Dr. S.K. Subramanian	Dr. M.C. Porwal	Dr. P.K. Champati Ray Dr. Ramesh P. Singh Shri Uday Raj	Dr. M.G. Chandrasekhar
2002-04	Dr. George Joseph	Dr. A.K. Bhattacharya Dr. P.C. Pandey	Dr. P.K. Champati Ray	Dr. Shailesh Nayak	Shri S.K. Mittal	Dr. R.R. Navalgund Shri Mukund Rao Mr. Srikant K. Panigrahi Dr. A. Jeyram Dr. J.P. Shukla	Shri S.K. Bhan
2004-06	Dr. R.R. Navalgund	Dr. V.S. Hegde Dr. M. Baba	Dr. P.K. Champati Ray	Dr. R. Nagaraja	Shri S.K. Mittal	Dr. Shailesh Nayak Dr. G. Srivastava Dr. Deb Jyoti Pal Dr. P.K. Garg Dr. M. Kudrat	Dr. George Joseph
2006-08	Dr. K. Radhakrishnan	Dr. Shailesh Nayak Dr. Srikanta K. Panigrahi	Dr. S.K. Saha	Dr. R. Nagaraja	Shri P.L.N. Raju	Dr. J.S. Parihar Dr. J.R. Sharma Dr. Y.V.N. Krishnamurthy Shri I.C. Das Dr. V.K. Sehgal	Dr. R.R. Navalgund
2008-10	Dr. Shailesh Nayak	Dr. J.S. Parihar Dr. A.N. Singh	Dr. S.K. Saha	Dr. S.C. Jayanthi	Shri P.L.N. Raju	Dr. B.L. Deekshatulu Dr. V.K. Sehgal Dr. R.R. Navalgund Dr. G. Bhanu Masthan	Dr. K. Radhakrishnan
2010-12	Dr. R.R. Navalgund	Dr. Y.V.N. Krishnamurthy Prof. Pramod K. Verma	Shri P.L.N. Raju	Dr. S.S Ray	Dr. S.P Aggarwal	Dr. J.P. Shukla Dr. R. Krishnan Shri Kalyanraman Dr. George Joseph	Dr. Shailesh Nayak
2012-14	Dr. V.K. Dadhwal	Shri. D.R.M. Samudraiah Dr. A.K. Singh	Dr. S.P Aggarwal	Dr. M.V.R. Sessa Sai	Dr. Sameer Saran	Dr. (Mrs.) Usha Kiran Chopra	Dr. R.R. Navalgund



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Period	President	Vice President	Secretary	Jt. Secretary	Treasurer	Members	Ex-Officio
2014-16	Dr. A.S. Kiran Kumar	Dr. P.G. Diwakar	Dr. S.P. Aggarwal	Dr. Prakash Chauhan	Dr. Sameer Saran	Dr. Krishna Mohan Buddhiraju-Member (Academia) Shri. Sanjay Kumar, Member (Industry)	Dr. V.K. Dadhwal
2016-18	Dr. Shailesh Nayak	Shri P.L.N. Raju Prof. (Dr.) Anjana Vyas	Dr. Sameer Saran	Dr. C. S. Jha	Dr. Hitendra Padalia	Dr. S. Sanjeevi- Member (Academia) Shri. Sanjay Kumar, Member (Industry) Dr. S.P. Aggarwal	Dr. A.S. Kiran Kumar
2018-20	Dr. Tapan Misra	Dr. Prakash Chauhan Dr. V.K. Sehgal	Dr. Sameer Saran	Dr. Rama Rao Nidamanuri	Dr. Hitendra Padalia	Prof. P.K. Verma-Member (Academia) Shri. Rajesh Mathur Member (Industry)	Dr. Shailesh Nayak
2020-22	Shri Nilesh Desai	Dr. Sameer Saran Dr. Brijendra Pateriya	Dr. Hitendra Padalia	Dr. Mehul R Pandya	Dr. Praveen K. Thakur	Dr. Y.V.N. Krishnamurthy, Member (Academia) Shri. Pramod Kaushik, Member (Industry) Dr. D. Ram Rajak	Dr. Tapan Misra



It may be mentioned that ISRS approves the establishment of a chapter in response to a request by at least 15 members from a town or a city. Areas lying within 40 km of a town can be included in the jurisdiction of a chapter. Each chapter has to obtain the formal recognition from the National Executive Council in the form of a chapter. At the same time there can be any number of chapters in a zone. Chapters are grouped on a zonal basis for representation in the council. There are five zones which are as follows:

- i. **Eastern Zone:** Assam, West Bengal, Bihar, Manipur, Meghalaya, Orissa, Tripura, Mizoram, Nagaland, Arunachal Pradesh, Andaman & Nicobar Islands, Sikkim, Jharkhand.
- ii. **Western Zone:** Gujarat, Rajasthan, Maharashtra, Goa, Daman & Diu, Dadar and Nagar Haveli.
- iii. **Central Zone:** Madhya Pradesh, Chhattisgarh, Uttar Pradesh
- iv. **Southern Zone:** Tamil Nadu, Kerala, Andhra Pradesh, Karnataka, Telangana, Pondicherry and Lakshadweep Islands.
- v. **Northern Zone:** Jammu & Kashmir, Ladakh-UT, Punjab, Himachal Pradesh, Haryana, Chandigarh, Delhi, Uttarakhand

Each chapter conducts its affairs in accordance with the memorandum, and regulations of the society. The office bearer of the chapters includes a Chairman, Secretary and a Treasurer elected once in two years at the chapter general body Meeting. All office bearers are eligible for re-election for another term. The term would be coincident with the term of the Executive Council of the society. The Society provides financial support for the maintenance of the chapters. The quantum of support is decided by the council but it has not exceeded fifty percent of the annual subscription received from the members of the chapter.

Over the years the society has increased its activity with the formation of new chapters. Presently the society has 27 chapters namely Ahmedabad, Ajmer, Allahabad, Aligarh, Bangalore, Bhopal, Bhubaneswar, Chandigarh, Chennai, Dehradun, Delhi, Guwahati, Hissar, Hyderabad, Indore, Jaipur, Jodhpur, Kolkata, Lucknow, Ludhiana, Mumbai, Nagpur, Pune, Thiruvananthapuram and Tiruchirappalli distributed across the country. Every year more and more members are added to different chapters. However, there are few members who are not the part of any chapter, but they could be the part of other chapters as per the ISRS rules and regulations of ISRS.

The local chapters have been very active in organizing the lectures, seminars, and workshops.

The journal: PHOTONIRVACHAK to Journal of Indian Society of Remote Sensing (JISRS)

The Journal of the Indian Society of Remote Sensing (JISRS) is the flagship publication of ISRS and the premier Indian journal in the field of remote sensing. The official launch of the journal was realized in 1973 when the society brought out a provisional issue of the journal, a cyclostyled compilation, priced at Rs. 2/-. The first volume pertaining to 1 & 2 issues of the 'Photonirvachak', Journal of the Indian Society of Photo Interpretation, that contained 10 research articles and published on July 1974. Initially it was a biannual



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publication and subsequently improved the publication to quarterly, then to bimonthly. JISRS is currently a monthly publication since 2018 within the framework of a contractual agreement with the Springer Nature publisher. During the past 50 years, the journal has made substantial improvements not only change in the cover page and amount of contents but also the name of the journal which changed several times. The journal made a landmark achievement when it received international recognition owing to its inclusion in the Thomson ISI products, beginning with volume 34(1) in 2006. Till the year 2007, the journal was publishing as Photonirvachak: Journal of the Indian Society of Remote Sensing. After entering into a contract with Springer, since 2008 the journal is being published as Journal of the Indian Society of Remote Sensing. Apart from the regular monthly issues the journal has published few special Issues on various themes such as Earth Observation for Climate Change Studies; Advances in Remote Sensing and GIS with Emphasis on Mountain Ecosystems; Spatial Information for Resource Management; 25th Anniversary of the Launch of IRS-1C; Advances in UAV Remote Sensing; and lastly on Advanced Geospatial Technologies for Agriculture with Special Emphasis on Field Level Applications. Another special issue on "Satellite Oceanography" is planned to release as the February 2023 issue of JISRS.

The editorial board of JISRS includes researchers and academicians from several reputed institutions of our country who ensure high-quality rigorous peer review during the editorial processing of the submissions. In recent years, the journal has gained wider distribution, readership, and recognition across the world. During the past 50 years, the journal has made substantial improvements, both in appearance and content. Since 1973, we have published 2498 research articles including 27 review articles which are spread over 50 volumes and in 228 issues till December 2022. JISRS is a hybrid open-access journal. Today, JISRS enjoys a high reputation among the remote sensing community and researchers both nationally and internationally with its rising performance indices with higher number of downloads (1,88,591 downloads in the year 2022), reduced turnaround time (TAT) of submissions. JISRS has achieved a remarkable increase in the impact factor from 0.764 (2014) to 1.894 (2021) as per Journal Citation Reports-2022 published by Clarivate. Journal has received submissions from more than 84 countries. This breakthrough would not have been possible without our readers, authors, peer reviewers, editors, and all the people working for JISRS, who, for years have contributed tremendously. The editorial board which began with a single scientist as the Chief Editor has progressively grown with the inclusion of more scholars in the board. As the journal started receiving more yearly submissions (992 submissions in the year 2022) the editorial board also restructured and included more associate editors as subject experts. Currently, the editorial board consists of 25 members. JISRS caters to the needs of the remote sensing and geospatial community by publishing peer-reviewed articles of original research contributions in all the related fields of remote sensing and its applications. It is a matter of pride that currently, the JISRS is the only journal in our country, publishing research work exclusively based on remote sensing. For more details, you may also refer to the compendium exclusively being published for JISRS along with this memoir during the GJ Celebrations. The list of Editor-in-Chief since 1973 onwards is given in Table II.



Table-II: Chief Editors of Journal

1973	Shri. B. N. Raina
1974-1978	Dr. D. P. Rao
1979-1983	Dr. A. Bhattacharya
1984	Prof. H. S. Iyer
1985	Dr. M. L. Manchanda
1986-1989	Dr. T. A. Hariharan
1990-1995	Dr. Baldev Sahai
1996-2000	Dr. P. K. Sharma
2001-2007	Dr. Ramesh P. Singh
2008-2011	Dr. B. L. Deekshatulu
2011-2021	Dr. George Joseph
2021 onwards	Dr. Shailesh Nayak

National Symposia

The first national symposium was organized by the society in 1980 at Dehradun. Since then the annual symposium has been a regular event in its calendar of activities. However, the symposium could not be held in 1984 due to the unfortunate assassination of the then Prime Minister Smt. Indira Gandhi. The proceedings of the symposia have also been published every year. So far, the society has organized 41 such symposia at various zones, (Table III) 29 annual symposiums have been organized after the silver jubilee event of 1995. The tentative date and time of ISRS annual general body meetings are being conducted on the eve of the national symposium since 2001. A major change in organizing the national symposium happened since 2011-12 onwards, when the ISRS and Indian Society of Geomatics (ISG) joined hands to organize their respective annual conventions and national symposium, with ISRS and ISG takes alternate lead in every second year. Same tradition is being followed since 2012.

Table-III: Annual Symposia of ISRS

Year	Theme of the National Symposium	Place
1980	Application of Photo interpretation and Remote Sensing for Natural Resources survey and Environment Analysis	Dehradun
1981	Modern Technique of site identification for afforestation and forest development	Dehradun
1982	Resources Survey for Landuse Planning and Environmental Conservation	Dehradun
1983	Remote Sensing in Development and Management of Water Resources	Ahmedabad
1985	Remote Sensing for Planning and Environmental aspects of Urban and Rural Settlements	Vishakhapatnam
1986	Geological Applications of Remote Sensing	Ahmedabad
1987	Remote Sensing in Land Transformation and Management	Hyderabad
1988	Remote Sensing in Rural Development	Hissar
1989	Engineering Application of Remote Sensing and Recent Advances	Indore



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Year	Theme of the National Symposium	Place
1990	Remote Sensing on Agricultural Applications	New Delhi
1991	Remote Sensing of Environment	Madras
1992	Remote Sensing on Sustainable Development	Lucknow
1993	Remote Sensing Applications for Resources Management with Special Emphasis on North Eastern Region	Guwahati
1994 - 95	Remote Sensing for Environmental Monitoring and Management with Special Emphasis on Hill Region	Dehradun
1995	Remote Sensing of Environment with Special Emphasis on Green Revolution	Ludhiana
1996	Remote Sensing for Natural Resources with Special Emphasis on Water Management	Pune
1997	Remote Sensing for Natural Resources with Special Emphasis on Infrastructure Development	Hyderabad
1998	Remote Sensing & Geographical Information System for Natural Resource Management	Dehradun
1999	Remote Sensing Application for Natural Resources - Retrospective and Perspective	Bangalore
2000	Spatial Technologies for Natural Hazards Management	Kanpur
2001	Advances in Remote Sensing Technology with Special Emphasis on High Resolution Imagery	Ahmedabad
2002	Resource and Environmental Monitoring	Hyderabad
2003	Resource Management with Special Reference to Geoinformatics and Decentralized Planning	Thriuvananthapuram
2004	Converging Space Technologies for National Development	Jaipur
2005	Emergence of Geo-informatics for Development: Trends and Opportunities	Ranchi
2006	Geo-spatial Databases for Sustainable Development	Goa
2007	High Resolution Remote Sensing & Thematic Applications	Kolkata
2008	Advances in Remote sensing Technology and Application with Special Emphasis on Microwave Remote Sensing	Gandhinagar
2009	Advances in Geo-spatial Technologies with Special Emphasis on Sustainable Rainfed Agriculture	Nagpur
2010	GIS and Remote Sensing in Infrastructure Development	Lonavala
2011	Empowering Rural India Through Space Technology	Bhopal
2012	Space Technology for Food & Environmental Security	New Delhi
2013	Remote Sensing and GIS for Environment with Special Emphasis on Marine and Coastal Dynamics	Visakhapatnam
2014	Operational Remote Sensing Applications: Opportunities, Progress and Challenges	Hyderabad
2015	Geomatics for Digital India	Jaipur
2016	Recent Advances in Remote Sensing and GIS with Special Emphasis on Mountain Ecosystems	Dehradun
2017	Space Applications: Touching Human Lives	New Delhi
2018	Advancements in Geospatial Technology for Societal Benefits	Ahmedabad



Year	Theme of the National Symposium	Place
2019	Innovations in Geospatial Technology for Sustainable Development with Special Emphasis on NER	Shillong
2020	Remote Sensing for Environment Monitoring & Climate Change Assessment: Opportunities and Challenges	Ahmedabad (Online Mode)
2021	i-Geomatics: An Integrated Technology To Empower Citizens Towards Self Reliant Nation	Ludhiana (Online Mode)
2022	Geospatial Technology: Journey from Data to Intelligence	Hyderabad

Awards

ISRS recognizes the contributions of individual members in the form of awards in order to encourage and motivate those who are promoting the aims and objectives of society. These awards fall in different categories based on their individual contributions. In total, there are 8 main awards along with best paper and best poster awards under general and student category. The awards are given every year by the ISRS during its national symposium. Some of the prestigious awards of the society are Bhaskara, Satish Dhawan, and National Geospatial Excellence awards, which are given for the lifetime contributions towards space technology, remote sensing, geospatial technology, and its applications in the country. The details of all ISRS awards and its changes since 1991 are listed in the Table IV-a and brief description about the award, followed by the list of year wise awardees in Table IV-b.

Table-IVa: About ISRS Awards

Award Name	Instituted in Year	Award Details
Honorary Fellow Earlier known as Honorary Member	Amended in 1993	Certificate of fellowship
Fellow of the Society	1993 onwards	Certificate
Bhaskara Award	1997 with award money of Rs. 50,000/-	The award includes Citation and Award Money. The award money increased to Rs. 1 Lakhs 2006 onwards, later 2015 onwards further increased to Rs. 2 Lakhs.
Vikram Sarabhai Memorial Lecture	1991 with award money Rs. 5,000/-	The award money increased to Rs. 10,000/- in the year 1998; Rs. 25,000/- 2008 onwards, later Rs. 50,000/- from 2016 onwards.
P. R. Pisharoty Memorial Award <i>Earlier known as 'Indian National Remote Sensing Award'</i>	1991 with award money of Rs. 5,000/-	The award includes Citation and Award Money. The award money increased to Rs. 10,000/- in the year 1996; Rs. 25,000/- 2006 onwards, later Rs. 50,000/- from 2016 onwards.
Satish Dhawan Award	2008 with award money of Rs. 50,000/-	The award includes Citation and Award Money. The award money increased to Rs. 1 Lakhs; 2015 onwards
National Geospatial Award	2006 with award money of Rs. 50,000/-	The award includes Citation and Award Money. The award money increased to Rs. 1 Lakhs; 2015 onwards
Indian National Geo-Spatial Award	2006 with award money of Rs. 25,000/-	The award includes Citation and Award Money. The award money increased to Rs. 50,000/-; 2015 onwards



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Award Name	Instituted in Year	Award Details
President's Appreciation Award	2011 with award money of Rs. 10,000/-	The award includes Citation and Award Money. The award money increased to Rs. 50,000/-; 2016 onwards
Best Chapter Award	2011 with max. award money of Rs. 25,000/-	The award includes Citation and Award Money. The award money increased to Rs. 50,000/-; 2016 onwards
ISRS Young Achievers Award	2006 with award money of Rs. 80,000/-	Travel Support for attending ISPRS Congress to young professionals
Best Paper Published in JISRS	1991 with award money of Rs. 1,000/-	The award includes Certificate and Award Money. The award money increased to Rs. 5000/- 2002 onwards, later 2015 onwards further increased to Rs. 10,000/-
SDI Best Paper Award	2006 with award money of Rs. 5,000/- to be awarded from the year 2007	Merged under the category of Best Papers Published in JISRS for RS & GIS from 2011 onwards
ISRS award for Best Paper Oral Presentation (General Category) <i>Earlier Known as 'ISRS Speck Award'</i>	1992 with award money Rs. 2,000/-	Later renamed as ISRS Best Paper General Category w.e.f. 2010 The award includes Certificate and Award Money. The award money increased to Rs. 2,000/- for 1 st position & Rs. 1,000/- for 2 nd position; 2010 – 2015. Later, further increase to Rs.2000/- for 02 best papers from 2016 onwards.
ISRS award for Best Paper Oral Presentation(Student Category) <i>Earlier Known as 'ISRS Optomech Award'</i>	1992 with award money Rs. 500/-	Later renamed as ISRS Student Awards w.e.f. 2008. The award includes Certificate and Award Money. The award money increased to Rs. 2,000/- for 1 st position & Rs. 1,000/- for 2 nd position; 2010 – 2015. Later, further increase to Rs.2000/- for 02 best papers from 2016 onwards.
ISRS Best Poster Presentation (General & Student Category)	2010 with award money Rs. 2,000/- for 1 st position & Rs. 1,000/- for 2 nd position	The award includes Certificate and Award Money. The award money increased to Rs. 2,000/- for 1 st position & Rs. 1,000/- for 2 nd position; 2010 – 2015. Later, further increase to Rs.2000/- for 02 best posters from 2016 onwards under each category
ISRS Asian Geospatial Award	2021	The award includes a Certificate and Award Money of Rs. 25,000/-. To be given in the ACRS every year by ISRS
ISRS innovation contest "ICON"	2022	It carries 1 st prize (Gold) of Rs 25000/- and a certificate, 2 nd prize (Silver), Rs 15000/- and a certificate and third (Bronze) prize of Rs 10000/- and a certificate



Vikram Sarabhai Memorial Lecture

The Society instituted in 1991 for Vikram Sarabhai Memorial Lecture to be delivered by eminent persons at the ISRS National Symposium every year. The first lecture in the series was delivered by Prof. U.R. Rao, during the annual symposium at Madras in 1991. The Vikram Sarabhai Memorial Lectures organized since 1991 are listed in Table V.

I. Bhaskara Award

The Bhaskara Award instituted by the ISRS in 1997, with a generous grant received from the Department of Space and is the highest award given for lifetime contributions to remote sensing technology /applications.

II. Satish Dhawan Award

This award has been instituted in 2008 to recognize outstanding and conspicuously important contributions in promoting geo-spatial science, technology, and applications in the country.

III. National Geo-Spatial Award for Excellence

This award has been instituted in 2005 to recognize lifetime contributions made towards promoting geospatial science, technology, and applications in the country.

IV. P. R. Pisharoty Memorial Award (earlier known as Indian National Remote Sensing Award)

ISRS confers every year P. R. Pisharoty Memorial Award earlier known as Indian National Remote Sensing Award and instituted in the year 1991 to young scientists up to 45 years of age, for the outstanding contributions made in the field of Remote Sensing Technology/Applications.

V. Indian National Geo-Spatial Award

This award has been instituted by ISRS in 2005 to recognize the significant contributions of young scientists up to 45 years of age in the field of geospatial science, technology, and applications in the country.

VI. ISRS Best Chapter Award

ISRS Executive Council has constituted the Best Chapter Award starting from the year 2011 to recognize the contribution towards the growth of the society by the chapter region.

VII. President's Appreciation Award

ISRS Executive Council has constituted the President's Appreciation Medal starting from the year 2011 to recognize the individual contribution towards the ISRS activities and its growth at the chapter level and National level.



VIII. Best Paper published in JISRS

ISRS award for the best paper published in the Journal of ISRS (JISRS) was instituted in the year 1991.

IX. ISRS Young Achievers Awards

ISRS award for the Young Achievers was instituted in the year 2006 to recognize the original and innovative contributions of the young scientist up to 35 years of age, in the field of remote sensing, geospatial science, technology, and applications. This award shall be given every four years to participate in the ISPRS Congress. This award consists of a certificate and a grant of Rs. 80,000/- for travel and sustenance allowances.

X. ISRS Asian Geospatial Award

The Indian Society of Remote Sensing (ISRS) has constituted an award to be presented at the ACRS every year, namely the "ISRS Asian Geospatial Award" to recognize the outstanding contribution in the field of Remote Sensing and GIS Technology. The award includes a certificate and award money of Rs. 25,000/-.

XI. ISRS innovation contest "ICON"

Indian Society of Remote Sensing (ISRS) has initiated a new award in 2022 for geospatial technology enthusiasts to encourage students, research scholars, and professionals to promote the development of open source-based innovative solutions in the field of remote sensing and spatial information technology. The new award has been named as ISRS innovation contest "ICON", with two stage evaluation process.

Other Awards

In addition, the society has instituted the following awards also to encourage scientists and students to come forward and present the results of their research work at the annual symposia or to publish them in the journal of the society. The old awards such as, SPECK and Optomech awards, which were given every year at the National Symposium, have been renamed as Best Paper and Poster awards since 2005.

Table- IVb: List of ISRS Awardees

BHASKARA AWARD		
S.No	Name	Year
1	Dr. George Joseph	1997
2	Prof. Bulusu Lakshmana Deekshatulu	1998
3	Shri P. Subba Rao	1999
4	Dr. Baldev Sahai	2000
5	Col.(Dr.) L.R.A. Narayan	2001
6	Dr. A.K.S. Gopalan	2002
7	Dr. Dasika Durga Prasada Rao	2003
8	Shri. Kalathinkal Krishnanunni	2004
9	Shri K. Thyagarajan	2005

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10	Dr. R.R. Navalgund	2006
11	Shri. A.S. Kiran Kumar	2007
12	Dr. K. Radha Krishnan	2008
13	Dr. Shailesh Nayak	2009
14	Dr. Parth Sarathi Roy	2010
15	Dr. Prithvish Nag	2010
16	Dr. J.S. Parihar	2011
17	Dr. S.K. Shivakumar	2012
18	Dr. V.K. Dadhwal	2013
19	Dr. Y.V.N Krishna Murthy	2014
20	Dr. V.S. Hegde	2015
21	Dr. M. Annadurai	2016
22	Dr. Ajai	2017
23	Dr. Santanu Chowdhury	2017
24	Dr. P.G. Diwakar	2018
25	Dr. A. Senthil Kumar	2018
26	Dr. K. Sivan	2019
27	Dr. S. S. Ray	2020
28	Shri. S. Somanath	2021

SATISH DHAWAN AWARD

S.No	Name	Year
1	Dr. P.K. Sharma	2008
2	Dr. P.P. Nageswara Rao	2009
3	Dr. Vinay Kumar Dadhwal	2010
4	Dr. J.R. Sharma	2011
5	Dr. M. Baba	2012
6	Shri. D.R.M. Samudraiah	2013
7	Dr. S.S Ray	2014
8	Dr. A. Senthil Kumar	2015
9	Dr. S.K. Saha	2015
10	Dr. Prakash Chauhan	2016
11	Dr. Raj Kumar	2017
12	Dr. S.N. Omkar	2017
13	Prof. Shakil Ahmed Romshoo	2018
14	Dr. Rashmi Sharma	2019
15	Shri. P.L.N. Raju	2019
16	Dr. Kamal Jain	2020
17	Shri. C. P. Dewan	2020
18	Dr. S. K. Ghosh	2021



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NATIONAL GEO-SPATIAL AWARD FOR EXCELLENCE

S.No	Name	Year
1	Shri A.R. Dasgupta	2005
2	Dr. P. Nag	2006
3	Dr. (Mrs.) Parvatham Venkatachalam	2007
4	Dr. Mukund Rao	2008
5	Dr. S.K. Pathan	2009
6	Dr. P.K. Srivastava	2010
7	Maj. Gen. Dr. R. Siva Kumar	2011
8	Dr. B.K. Mohan	2012
9	Dr. Bharat Lohani	2012
10	Dr. Gangalakunta P. Obi Reddy	2013
11	Prof. Usha Natesan	2014
12	Dr. Sarnam Singh	2015
13	Shri Vinod Bothale	2016
14	Dr. Brijendra Pateriya	2016
15	Dr. J.K. Ghosh	2017
16	Dr. S.P. Aggarwal	2018
17	Dr. R.D. Garg	2018
18	Dr. Narayan Panigrahi	2019
19	Shri. Shashikant Sharma	2019
20	Dr. P. K. Joshi	2020
21	Dr. C. S. Jha	2020
22	Prof. Gulab Singh	2021
23	Dr. V. V. Rao	2021

**P.R. PISHAROTY MEMORIAL AWARD
(EARLIER KNOWN AS INDIAN NATIONAL REMOTE SENSING AWARD)**

S.No	Name	Year
1	Dr. S.M. Ramaswamy	1991
2	Dr. P.S. Roy	1991
3	Dr. R.R. Navalgund	1992
4	Dr. R.N. Jadhav	1993
5	Shri S.K. Shiva Kumar	1993
6	Shri A.S. Kiran Kumar	1994
7	Dr. Shailesh Nayak	1994
8	Dr. Shiv Mohan	1995
9	Dr. R.S. Dwivedi	1995
10	Dr. A.K. Basu	1996
11	Dr. V. Raghavswamy	1996

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12	Dr. Ajai	1997
13	Dr. Ramesh P. Singh	1997
14	Dr. D.S. Mitra	1998
15	Dr. Y.V.B. Sarma	1998
16	Dr. V.K. Dadhwal	1999
17	Dr. R. Nagaraja	1999
18	NONE	2000
19	Dr. Arun Kumar Saraf	2001
20	Dr. George Philip	2002
21	Dr. Ramesh Kumar	2003
22	Dr. Prakash Chauhan	2004
23	Shri V. Bhanumurthy	2004
24	Dr. Shibendu Shankar Ray	2005
25	Dr. Raghavendra Pratap Singh	2005
26	Dr. Raj Kumar & Shri K.R. Manjunath	2006
27	Dr. P.K. Champaty Ray	2007
28	Dr. Rashmi Sharma	2008
29	Dr. Sunjay Dutta	2009
30	Dr. Rajat Shubra Chatterjee	2010
31	Dr. Bimal Kumar Bhattacharya	2011
32	Dr. S.K. Srivastava	2011
33	Dr. P.K. Thapliyal	2012
34	Dr. Mehul R Pandya	2013
35	Dr. P.K. Joshi	2014
36	Dr. C. Sudhakar Reddy	2014
37	Dr. Anil Kumar	2015
38	Dr. Rabindra K. Nayak	2015
39	Dr. (Ms.) Abha Chhabra	2016
40	Dr. Neeraj Agarwal	2017
41	Dr. Hitendra Padalia	2018
42	Dr. Satadru Bhattacharya	2018
43	Dr. Sreejith K .M	2019
44	Dr. M.B. Rajani	2019
45	Dr. Subrata Nandy	2020
46	Dr. C.P. Singh	2020
47	Dr. Praveen K. Thakur	2021
48	Dr. M. V. Shukla	2022
49	Dr. R. K. Setia	2022



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INDIAN NATIONAL GEO-SPATIAL AWARD

S.No	Name	Year
1	Shri Sashikant A. Sharma	2006
2	Dr. Gangalakunta P. Obi Reddy	2007
3	Shri. T. Srinivasa Kumar	2008
4	Shri R.J. Bhanderi	2009
5	Mr. E. Pattabhi Rama Rao	2010
6	Dr. Sameer Saran	2011
7	Mr. M. Arulraj	2012
8	Dr. K.S. Rajan	2013
9	Dr. C. Jeganathan	2015
10	Dr. Harish Chandra Karnatak	2016
11	Dr. Rajeev Kumar Jaiswal	2017
12	Dr. John Mathew	2018
13	Dr. Shridhar D. Jawak	2018
14	Dr. Bharath Haridas Aithal	2019
15	Shri Kapil Oberai	2020
16	Dr. Sanid Chirakkal	2020
17	Dr. Shashi Kumar	2021
18	Dr. Uttam Kumar	2021
19	Dr. Vaibhav Garg	2022

PRESIDENT'S APPRECIATION MEDAL

S.No	Name	Year
1	Dr. N.S. Mehta	2011
2	Dr. S.K Saha	-
3	Shri H. N. Madhusudhan	2013
4	Prof. P.L.N. Raju	2014
5	Prof. Sarvesh Palria	2015
6	Dr. S.P. Aggarwal	2016
7	Dr. Rabi Narayan Sahoo	2018
8	Dr. R. K. Setia	2019
9	Dr. Sameer Saran	2021
10	Dr. S. K. Soni	2022
11	Dr. Karthik Nagarajan	2022

ISRS BEST CHAPTER AWARD

S.No	Name	year
1	Ahmedabad Chapter	2011
2	Bhopal Chapter	2012



3	Dehradun Chapter	2013
4	Delhi Chapter	2014
5	Ludhiana Chapter	2015
6	Dehradun Chapter	2016
7	Visakhapatnam Chapter	2017
8	Shillong Chapter	2018
9	Ludhiana Chapter	2019
10	Tiruchirappalli Chapter	2020
11	Ahmedabad Chapter	2021
YOUNG ACHIEVER AWARD		
S.No	Name	year
1	Shri. Amitabh	2008
2	Ms. Nandini Ray Chaudhury	2012
3	Mr. Indrani Mondal	2016
4	Ms. M. Vijaya Sunanda	2016
5	Dr. Priyanka Singh	2020

Table-V: List of Vikram Sarabhai Memorial Lecture

S.No.	Name	Year	Details
1.	Prof. U.R. Rao	1991	Remote Sensing for sustainable Development
2.	Dr. S.Z. Qasim	1992	Remote Sensing for ocean Resources
3.	Prof. P.R. Pisharoty	1993	Remote Sensing Applications for Resources Development
4.	Prof. Yash Pal	1994	Impact of Space Technology and Society
5.	Prof. M.G.K. Menon	1995	Impact of Modern Technology on Environment
6.	Dr. K. Kasturirangan	1996	A Space Agenda for Water : Challenges and Perspectives
7.	Prof. B.L. Deekshatulu	1997	Recent Trends on Remote Sensing Data Analysis
8.	Dr. A.E. Muthunayagam	1998	-
9.	Dr. G.B. Pant	2000	-
10.	Dr. Harsh K. Gupta	2001	How Long Triggered Earthquakes will Continue in the Vicinity of the Koyna Dam
11.	Dr. Vinod Gaur	2002	Space probes and Planetary Thermodynamics
12.	Dr. R.R. Kelkar	2003	Remote Sensing of the Atmosphere and Ocean Observation, Prediction and Research
13.	Dr. P.S. Goyel	2004	Earth Observation Systems Technology : Trends and Challenges
14.	Mr. B.S. Bhatia	2005	Space Application: Need for Institution Building
15.	Dr. J.N. Goswami	2006	Remote Sensing of Moon with Chandrayan - I
16.	Dr. B.N. Suresh	2007	Journey to Space and return
17.	Dr. Roddam Narasimha	2008	Climate Change and its impacts
18.	Dr. Sulochana Gadgil	2009	Monsoon through the Eye in the sky



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19.	Dr. Pramod Kale	2010	Water Availability in coming decades
20.	Dr. Ramakrishna Nemani	2011	Composition, Condition and Function of Global Land Vegetation
21.	Dr. R.R. Navalgund	2012	Harnessing Space Technology For Sustainable Agriculture
22.	Dr. Shailesh Nayak	2013	Towards stewardship of oceans
23.	Dr. Shailesh Nayak	2014	India's Global Engagements in Earth System Science
24.	Mr. N.K. Sinha, IAS	2015	Importance of the Space technology in creating geospatial database for heritage science and facilitating the planning for their preservation
25.	Dr. A.S. Kiran Kumar	2016	Space Inputs for societal and governance applications
26.	Dr. K. Sivan	2017	India's Space Transportation System
27.	Dr. Dipankar Bhattacharya	2018	Observing the Cosmos: Achievements and Aspirations of the Indian Space Programme
28.	Shri. Kiran Karnik	2019	Hi-Tech for People's Good: Vikram Sarabhai's Enduring Legacy
29.	Dr. K. Radhakrishnan	2020	Changing Paradigms in EO Applications and Services
30.	Dr. Renu Swarup	2021	Biotechnology in India: An exhilarating journey from research to translation
31	Dr. M. Ravichandran	2022	Space Technology for Blue Economy Perspective

Fellows and Honorary Fellows

Eminent and senior researchers, Indians or non-Indians, who have made outstanding contributions in the field of remote sensing have been conferred Honorary Membership of the Society. The Honorary Membership has been renamed as Honorary Fellowship by a constitutional amendment in 1993. At present, there are 15 Honorary Fellows of the Society (Table VI).

In order to honour the eminent and outstanding members of the society, who have made notable contributions in the field of remote sensing, another category of membership, 'Fellow of the Society' was introduced in 1993. The first group of fellows nominated by the society includes the four past Presidents viz, Prof. B. L. Deekshatulu, Dr. L.R.A. Narayan, Dr. Baldev Sahai and Prof P. D. Bhavsar. Full details of honorary fellows and fellows in given in Table VI.

Table-VI: List of Honorary Fellows & Fellows

HONORARY FELLOWS		
S.No.	Name	Year
1	Dr. Karl Harmsen	-
2	Dr. K. Kasturirangan	-
3	Prof. G. Konecny	-
4	Dr. Shunji Murai	-
5	Prof. Yash Pal	-
6	Prof. U.R. Rao	-

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7	Col. J.N. Sinha	-
8	Dr. M.S. Swaminathan	-
9	Dr. Orhan Altan	2017
10	Dr. George Joseph	2017
11	Dr. B.L. Deekshatulu	2017
12	Dr. Baldev Sahai	2023
13	Dr. Shailesh Nayak	2023
14	Dr. R. R. Navalgund	2023
15	Dr. Christian Heipke	2023

FELLOWS OF THE SOCIETY

S.No	Name	Year
1	Prof. P.D. Bhavsar	1993
2	Prof. B.L. Deekshatulu	1993
3	Dr. L.R.A. Narayan	1993
4	Dr. Baldev Sahai	1993
5	Mr. P.P. Kale	1995
6	Prof. A.K. Roy	1996
7	Dr. George Joseph	1998
8	Dr. P.K. Sharma	1998
9	Dr. A.K.S. Gopalan	1999
10	Dr. P.C. Pandey	2000
11	Dr. D. P. Rao	2000
12	Mr. G.S. Srivastava	2000
13	Dr. K.G. Tejwani	2002
14	Dr. R. R. Navalgund	2004
15	Dr. K. Radhakrishnan	2009
16	Dr. Jai Singh Parihar	2011
17	Dr. Parth Sarathi Roy	2011
18	Dr. Shailesh Nayak	2011
19	Prof. V.V. Peshwa	2011
20	Shri A.S. Kiran Kumar	2012
21	Dr. S.K. Shivakumar	2012
22	Dr. V. Jayaraman	2012
23	Dr. R. Krishnan	2013
24	Dr. Prithvish Nag	2013
25	Dr. Ramesh P. Singh	2013
26	Dr. Pramod Kumar Verma	2013
27	Dr. S.M. Ramasamy	2013
28	Dr. V.K. Dadhwal	2014
29	Dr. Pranav Desai	2014
30	Dr. D.K. Das	2014
31	Dr. N.C. Gautam	2014
32	Dr. (Mrs.) P. Venkatachalam	2014



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33	Dr. Y.V.N. Krishna Murthy	2015
34	Dr. V.S. Hegde	2015
35	Dr. Bharat Lohani	2015
36	Dr. M. Annadurai	2015
37	Dr. P.G. Diwakar	2017
38	Shri Tapan Misra	2017
39	Dr. S.S. Ray	2017
40	Dr. Sujit Kumar Basu	2018
41	Dr. D.R.M. Samudraiah	2019
42	Prof. Shakil Ahmed Romshoo	2019
43	Dr. Prakash Chauhan	2019
44	Dr. K. Sivan	2020
45	Dr. A.S. Rajawat	2020
46	Dr. S.P.S. Kushwaha	2020
47	Prof. P.K. Garg	2020
48	Dr. A. Senthil Kumar	2021
49	Dr. S.K. Saha	2021
50	Dr. S.P. Aggarwal	2022
51	Dr. Anjana Vyas	2022

Constitution

The Society framed and adopted its constitution in 1973 consisting of a) a Memorandum and b) Rules and Regulations. Society functions according to the rules and regulations laid down by it. The constitution has since been amended in 1982, 1986, 1989 and 1993, 2005, 2016 and 2021.

Executive Council

Until 1986, the Executive Council (EC) of the society was elected by oral voting at the annual general body meetings of the Society. However, since 1986 the EC is elected through secret ballots by an electoral college consisting of all the members and life members of the Society, once every two years. The term of the council which was three years until 1989 was reduced to two years through a constitutional amendment. Since then all EC of society has been elected for two terms. In the year 2021, constitution amendment was done with approval of majority of ISRS members to conduct the EC elections through e-voting. The Table I provides the list of all EC members since 1973.

Office building and facilities

Since its inception, the society has been functioning from a small room in the Agriculture and Soil Division of the Indian Institute of Remote Sensing (IIRS). In 1993, the office was shifted to a more spacious and convenient room in the IIRS administrative block which was allotted to the society by the then Head, IIRS. Meanwhile, efforts were also on to get a piece of land allotted in the IIRS campus and to build its own building by the society. As a result of the sincere efforts of Shri P. P. Kale, the then President of ISRS, the Secretary DOS/Chairman and NRSA Governing Body, it was decided to give a separate building space



for ISRS (400 sq. m) in the IIRS Campus, Dehradun. The foundation stone for the building was laid by Dr. K. Kasturirangan the then Chairman, ISRO and Space Commission on 22 Feb. 1995. Late Dr. D. P. Rao, then Director, National Remote Sensing Agency (NRSA) inaugurated the ISRS building on March 25, 1998. Since then there has been many small and major additions to the infrastructure facilities of ISRS office building.

The major upgrade of ISRS building and its office happened during the 2021-22 period, when ISRS EC (2020-22) decided to augment the office infrastructure of ISRS headquarters with a view to improving the working conditions of ISRS staff. The civil work of this upgrade was supported by IIRS and augmentation of furniture & fixtures, IT infrastructure etc. were taken care by the society. The inauguration of the renovated ISRS HQs office was done on June 28th, 2022, by Shri. Shantanu Bhatawdekar, Scientific Secretary, ISRO, in the august presence of Dr. Prakash Chauhan, Director, NRSC & President ISRS, and Dr. R. P. Singh, Director, IIRS. More details about the ISRS office infrastructure are given in the next section on achievements of ISRS.

Acknowledgments

While celebrating the Golden Jubilee of the society, it is only appropriate to put on record our indebtedness to those pioneers who made lasting contributions to the development and growth of the society during the last 54 years. We have lost some of the stalwarts of ISRS and JISRS editorial members, and we pay our tributes to their memories. We are not in touch with many of the founder members and old members, but we put on record our appreciation of their contributions to society. We also like to express our sincere gratitude to ministries of Government of India and States; Patron members; ISRS Chapters; Academia; Industry; and selfless efforts of all ISRS members for supporting the activities of society and journal.



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PRESENT EXECUTIVE COUNCIL- ISRS (2022 – 24)

1	Dr. Prakash Chauhan		President	NRSC, Hyderabad
2	Dr. Jayaprakash V. Thomas		First Vice President	ISRO, Bengaluru
3	Dr. Adarsh Kumar		Second Vice President	Amity, Noida
4	Dr. Praveen K. Thakur		Secretary	IIRS, Dehradun
5	Dr. Som Kumar Sharma		Joint Secretary	PRL, Ahmedabad
6	Dr. Poonam S. Tiwari		Treasurer	IIRS, Dehradun
7	Shri Nilesh Desai		Member (Ex-officio President)	SAC, Ahmedabad
8	Dr. Shailesh Nayak		Member (Editor-in-Chief)	NIAS, Bengaluru
9	Prof. Bharat Lohani		Member (Academia)	IIT, Kanpur
10	Ms. Megha Datta		Member (Industry)	Woolpert, Delhi



CHAPTERWISE MEMBERSHIP POSITION (As on February 15, 2023)

Sr. No	Chapter	Life Membership Status
1	Ahmedabad	787
2	Ajmer	38
3	Aligarh	19
4	Allahabad	87
5	Bangalore	361
6	Bhopal	106
7	Bhubaneswar	120
8	Chandigarh	101
9	Chennai	221
10	Dehradun	423
11	Delhi	383
12	Guwahati	69
13	Hissar	69
14	Hyderabad	514
15	Indore	68
16	Jaipur	78
17	Jodhpur	79
18	Kolkata	314
19	Lucknow	176
20	Ludhiana	138
21	Mumbai	173
22	Nagpur	136
23	Pune	205
24	Shillong	66
25	Thiruvananthapuram	118
26	Tiruchirappalli	93
27	Vishakhapatnam	81
	Others	978
	Total	6001

उत्तर-पूर्वी अन्तरिक्ष उपयोग केन्द्र North Eastern Space Applications Center

अन्तरिक्ष विभाग/ Department of Space
भारत सरकार/ Government of India

Achievements

- 400+ Projects
- 200+ User Departments
- Multiple National and Regional Awards
- 3000+ personnel trained

Dedicated towards Space technology intervention for developmental activities of NER



NESAC's role in developmental support

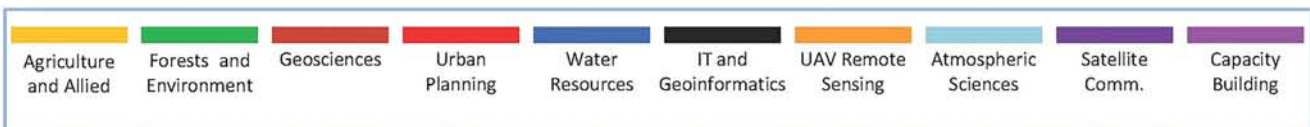
Provides an operational remote sensing and GIS aided support to facilitate the management of natural resources, infrastructure planning and governance, etc.

Provides operational satellite communication applications services supporting education, healthcare, disaster management, and developmental communication.

Takes up research in space and atmospheric science area and establish an instrumentation hub and networking with various academic institutions of NER.

Academic interface and capacity building towards utilisation of space science & technology in research and applications.

Enable single window delivery of all possible space based support for disaster management.



MAJOR CONTRIBUTIONS

Agriculture and Allied Fields

- Crop Acreage and Production Estimation
- Horticulture Planning & Sericulture Development

Forest and Environment

- Forest Working Plan & Bamboo Resource Mapping
- Biomass and Carbon Stock Assessment

Geosciences

- Groundwater Prospects Mapping
- Route Alignment and feasibility studies

Urban Planning

- GIS based Master Plan Preparation under AMRUT
- Village Resource Mapping
- Hazard Risk and Vulnerability Assessment

Water Resources

- Flood Early Warning System
- River Atlases & Watershed Management Plan

IT and Geoinformatics

- North Eastern Spatial Data Repository (NeSDR)
- Project Monitoring System/Election E-Atlas

UAV Remote Sensing

- State-of-the-Art UAV facility & High Resolution Mapping
- Disaster Management Support

Atmospheric Sciences

- Aerosol Radiative Forcing and Boundary Layer Studies
- Short and Medium Range Weather Prediction

Satellite Communication

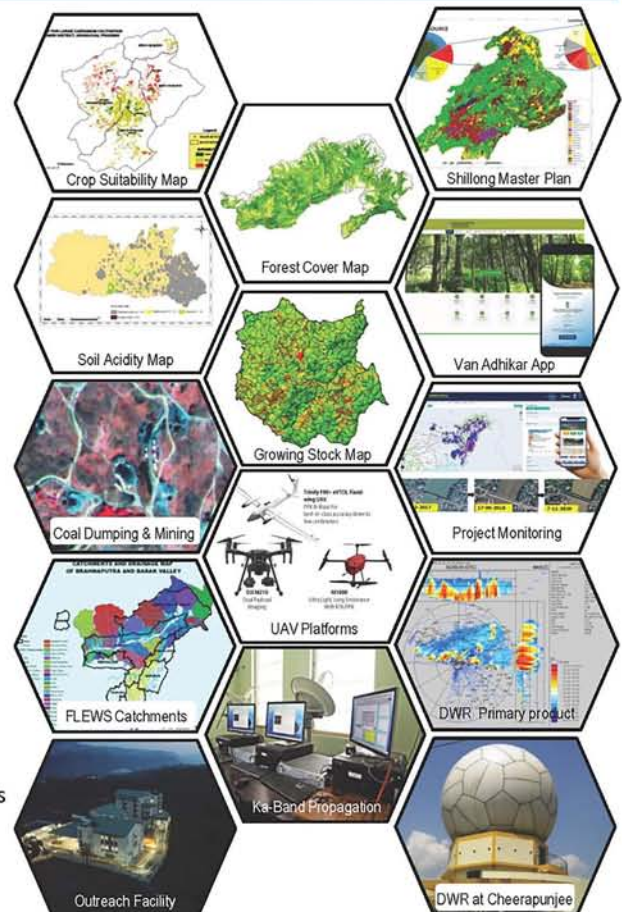
- Tele-Education and Tele-Medicine & Emergency Communications

North Eastern Regional node for Disaster Risk Reduction

- FLEWS, LEWS, Forest fire, Earthquake Precursor Studies
- Thunderstorm and Lightning Early Warning
- Dashboard and Mobile Apps. for DMS

Capacity Building

- Training programs for user departments and academia from national and international participants in the field of RS & GIS applications, Atmospheric sciences, UAV and Satellite Communications.



For details please contact:

Director
North Eastern Space Applications Centre
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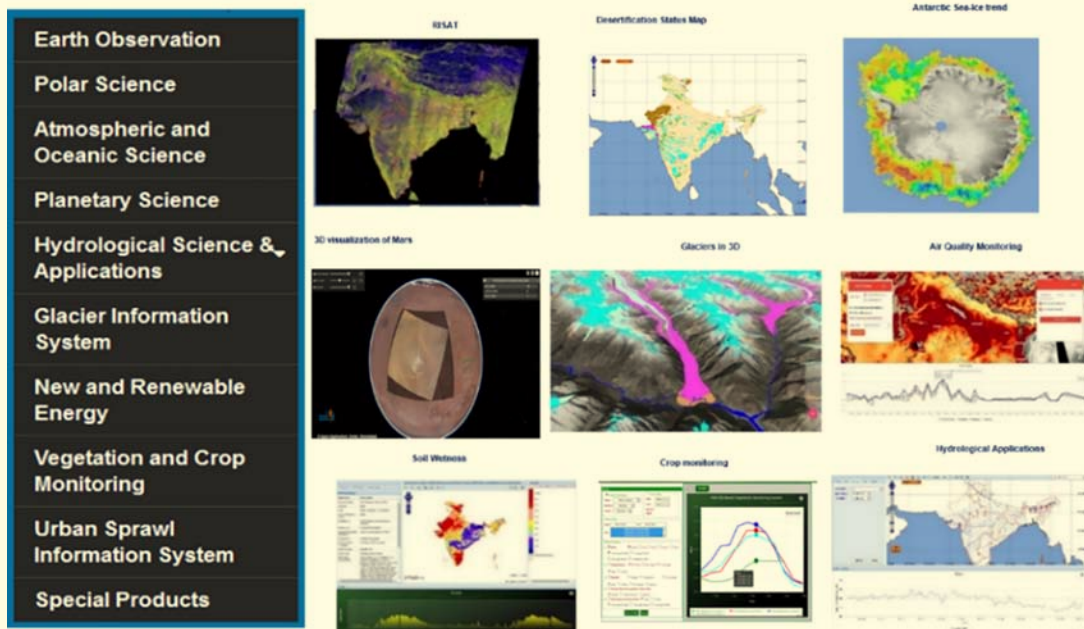
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VISUALIZATION OF EARTH OBSERVATION DATA AND ARCHIVAL SYSTEM (VEDAS), SAC/ISRO

Space Applications Centre (SAC) is responsible for carrying out applications and associated research utilising optical and microwave remote sensing data in a large number of disciplines including Agriculture, Forestry, Environment, Coastal & Marine Resources, Hydrological Studies, Climate Change Studies, Cryosphere, Spatial Data Infrastructure, Atmospheric and Ocean Sciences, Early Warning and Disaster Management Support, Planetary & Space Sciences etc. These are also aimed at meeting the requirements of various user ministries of the country.



Visualisation of Earth observation Data and Archival System



The Visualization of Earth observation Data and Archival System (VEDAS) site <http://www.vedas.sac.gov.in> depicts vast and varied data and information that is generated at SAC (ISRO). It provides access to thematic spatial derived data repository over land and natural resource inventories generated at SAC. The underlying purpose is to extend the societal benefits of the nation's investments in ISRO's Earth Science programme. VEDAS motivates and encourages talent pool of analysts such as students, researchers, academia and scientists to use these data to showcase their spatio-temporal data analytics skills. VEDAS provides a platform (data, infrastructure and guidance) for utilisation of information derived over land using mainly Indian space-borne sensors to develop custom crafted geo-spatial applications which can feed into the decision support systems.

For more details, please visit <http://www.vedas.sac.gov.in>.

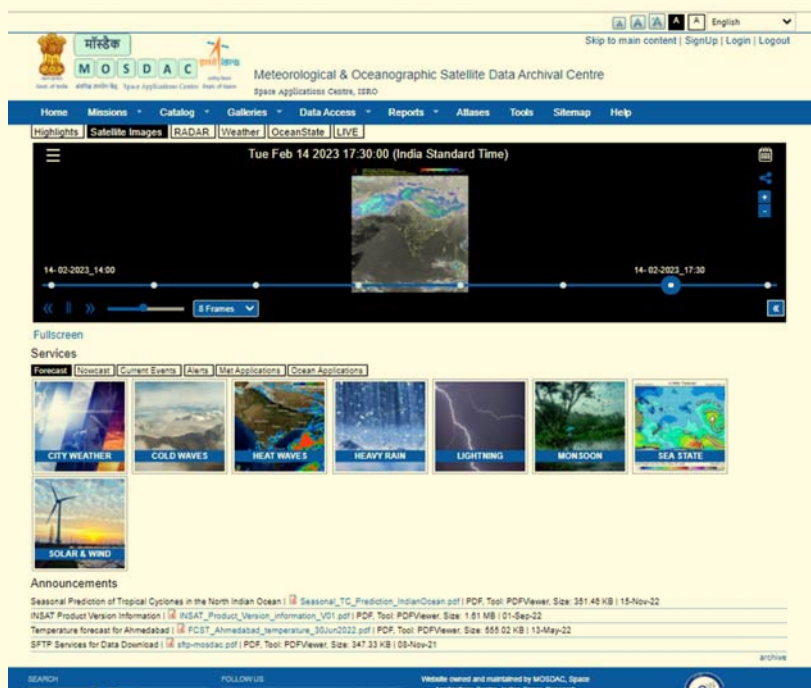
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METEOROLOGICAL AND OCEANOGRAPHIC SATELLITE DATA ARCHIVAL CENTRE (MOSDAC), SAC/ISRO

ISRO's Earth Observation Systems for Atmosphere and Ocean Monitoring have been providing continuous data since 2000. Meteorological and Oceanographic Satellite Data Archival Centre (MOSDAC, <http://www.mosdac.gov.in>) archives and disseminates data from Meteorological and Earth Observation satellites like INSAT, KALPANA-1, Oceansat series, Megha-Tropiques and SARAL. MOSDAC also hosts and disseminates weather related information services and alerts over Mobile devices.

The portal provides a variety of products and services for a wide spectrum of applications comprising of weather forecasting, cyclone prediction and other vital ocean and atmospheric parameters needed by national/international forecasting agencies, research organisations, academic institutions, individual researchers and students for advanced research. MOSDAC is providing near real time satellite data to operational agencies within the country like National Centre for Medium Range Weather Forecasting (NCMRWF), India Meteorological Department (IMD), Indian Navy, Ministry of Renewable Energy, Mahalanobis National Crop Forecast Centre (MNCFC) as well as international users like NASA/NOAA, EUMETSAT and CNES.



Near real time Meteorological and Oceanographic data dissemination, Free data to scientific and academic community, A Storehouse for Space based Weather and Ocean Data, Web and email alerts for extreme weather events, Freely available tools and utilities for data analysis, Advanced alerts related to cyclone and heavy rain events to civil administrators and users, Heavy rain and cloud burst related Nowcasting over Western Himalayan region, Weather, heat / cold wave forecasting are some of the major services provided by MOSDAC.

For more details, please visit <http://www.mosdac.gov.in>.

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SOME REMINISCENCES



National Remote Sensing Centre
 Indian Space Research Organisation
 Government of India



Only Organisation in the Country
 to Acquire & Supply
 Satellite Data to Users

Bhoonidhi
 ISRO's EO Data hub

Development of Techniques
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**A Smart
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Aerial Acquisition for Specific
 User Demands &
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 through RRSCs

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Open Data & Thematic
 Products Dissemination
 Through Bhuvan

Capacity Building in
 Remote Sensing Applications
 through Training & Outreach Facility

www.nrsc.gov.in

www.bhuvan.nrsc.gov.in

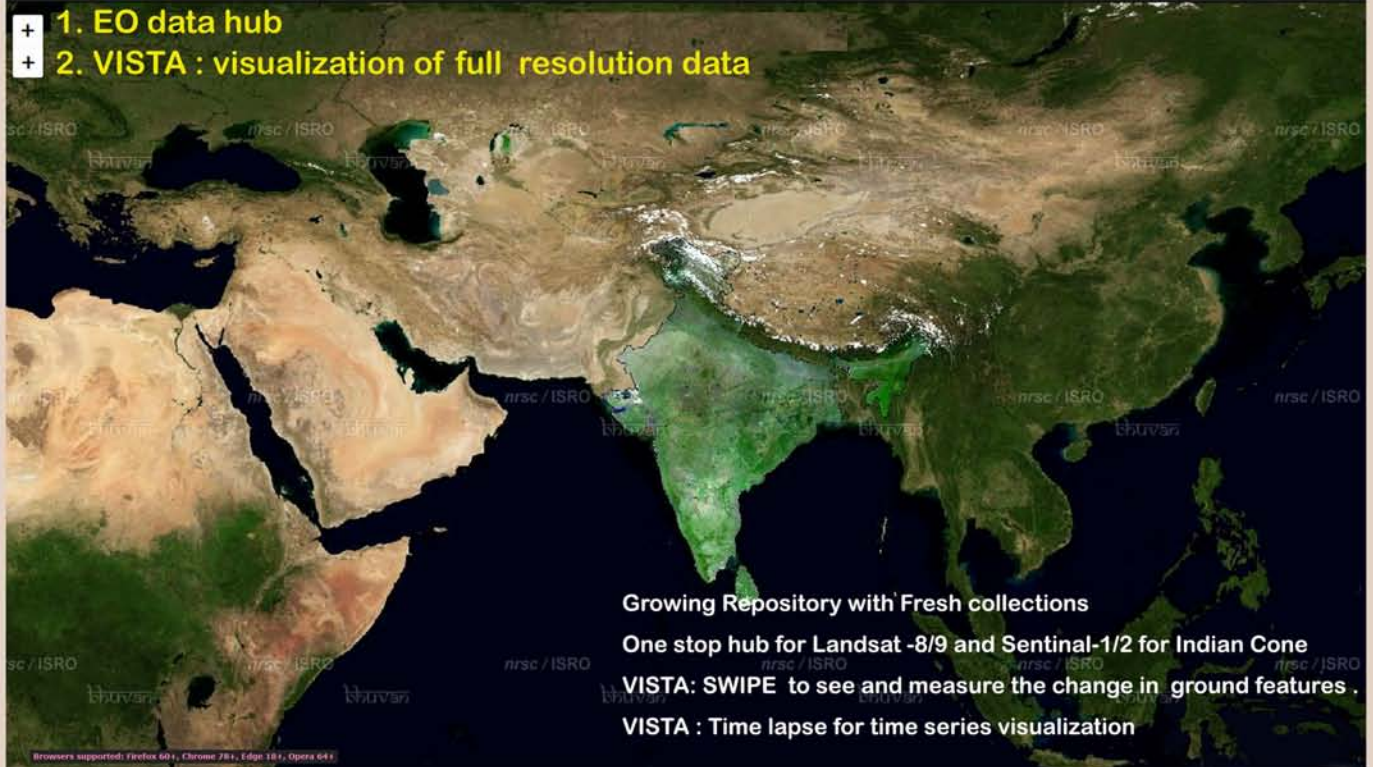
data@nrsc.gov.in

Bhoonidhi
 ISRO's EO Data HUB



भूनिधि
 इसरो इओ डाटा हब

- + 1. EO data hub
- + 2. VISTA : visualization of full resolution data



Growing Repository with Fresh collections
 One stop hub for Landsat -8/9 and Sentinal-1/2 for Indian Cone
 VISTA: SWIPE to see and measure the change in ground features .
 VISTA : Time lapse for time series visualization



Dr. Baldev Sahai

President ISRS (1987-1989) & Chief Editor JISRS (1990-1995)

Golden Jubilee Celebration of Indian Society of Remote Sensing and its journal “Photonirvachak” (then Journal of the Indian Society of Photo-Interpretation) has a special significance for me personally as it was during the year 1973 that I switched over from Nuclear Physics to Remote Sensing and joined Space Applications Centre (ISRO), Ahmedabad. There I had the privilege to work with many of the Presidents and Chief Editors, including the current President, Indian Society of Remote Sensing (ISRS) and Editor-in-Chief, Journal of the Indian Society of Remote Sensing (JISRS).

The society had transformed itself from Indian Society of Photo-Interpretation to Indian Society of Photo-Interpretation and Remote Sensing in 1979 and subsequently to Indian Society of Remote Sensing in 1986. I was privileged to lead the Indian Society of Remote Sensing during the 3-year term 1986-1989. A new constitution (Memoranda, Rules and Regulations) of the society, for whose drafting, I had been given the prime responsibility, was implemented. In the very first meeting of the Executive Council of the society in January 1987, we took up the challenge to take the membership of the society from 403 [the then membership] to a four-digit number. There was only one chapter (Ahmedabad) of the society at that time.

Eighties were momentous years for advancement of the remote sensing technology in the country. A state-of-the art remote sensing programme for natural resources management of the country was launched by the Department of Space, Government of India. A National Natural Resources Management System (NNRMS) was conceived under which Indian Remote Sensing Satellite - Utilisation Programme (IRS-UP) and later application missions were launched. This also had a component of State Support services. Multitudes of projects were carried out in collaboration with several Central and State government departments/agencies and academic institutions to operationalize remote sensing technology. The first Indian remote sensing satellite IRS-1A was launched on March 17, 1988. As a result, quite a few state remote sensing centres came up during this period. A new wave of multidisciplinary scientists turned towards remote sensing because of these advances. The society played a vital role in disseminating the technology through its publications, chapter activities, annual conventions and national symposia.

During our term, I also had the privilege and honour to preside over three annual conventions and national symposia of the society held at places spread all over the country, from the south (Hyderabad; December 23-25, 1987; Remote Sensing in Land Transformation and Management] through the central India [Indore; December 21-23,



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1988; Engineering Applications of Remote Sensing and Recent Advances], and to the north [Hissar; November 17-19, 1988; Remote Sensing in Rural Development]. These were well-attended symposia. Awards for the best paper and the best student paper presented in the symposia were also instituted during this period. It was the first time that during the tenure of an executive council of the society annual conventions and national symposia were regularly held.

Incidentally, the term of the council got extended by three months, i.e. up to March 31, 1990 as the constitutional amendment made the term concomitant with a financial year. The amendment also reduced the term of future councils to two years. Thus the 1987-1989 council served for 3 year and three months – a record.

It was indeed gratifying that we ended our term with a membership of 1078 and 14 chapters of the society spread all over the country.

I take this opportunity to appreciate efforts put in by all EC members and other members of the Society for their valuable contributions and support during our term.

I am delighted that current EC is organizing the Golden Jubilee Celebration of ISRS & JISRS and recognizing all those who have contributed to the growth of the society and the journal.

I wish a grand success to the event!

(Dr. Baldev Sahai)



Dr. K. Kasturirangan

Former Chairman, ISRO

Former Chairman, National Education Policy Committee

Chairman, National Steering Committee for National Curriculum Frameworks

February 21, 2023

I am delighted to know that the Indian Society of Remote Sensing (ISRS) is celebrating its Golden Jubilee. ISRS has had a glorious journey during these five decades since its inception in 1969 as the Indian Society of Photo Interpretation (IPI).

ISRS with its humble beginning in 1969 with 56 researchers has grown into a premier society with a membership of about 6000 including scientists, professionals, academicians, research scholars, students, etc. For these 5 decades, ISRS has been working in the field of promoting the knowledge of remote sensing and geospatial technologies in the country. With the initiation of the Indian Space Programme with the vision of 'harnessing space technology for national development', the society has also grown working together aligned to this aim.

The memories of silver jubilee celebrations of ISRS at Dehradun during February 22 – 24, 1995 are still very fresh. I still remember the laying the foundation stone for a dedicated ISRS building at IIRS campus. Over the years, ISRS has organised many successful symposiums, highlighting the Indian remote sensing data and its applications for natural resources management. During this long association with ISRS and ISPRS, receiving the Brock Gold Medal, which is the most prestigious ISPRS award of the year 2004 and becoming the fellow of ISRS, are some of the cherished moments.

I congratulate all the members of ISRS for their contributions and dedication on the occasion of the Golden Jubilee.

(K. Kasturirangan)

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Ph: +91-80-2341 5474



INDIAN SOCIETY OF REMOTE SENSING
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Prof. BL Deekshatulu

Past President ISRS
Former Distinguished Scientist & Director NRSA
FNA, FASc, FNASc, FNAE, FNAAS, FIEEE, FTWAS

January 26, 2023

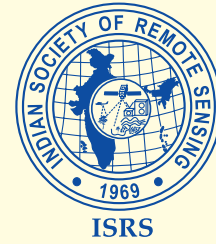
I am happy to learn that the 'Indian Society of Remote Sensing' (ISRS) which was established in the year 1969, as the 'Indian Society of Photo-Interpretation' has grown in stature, since then and is recognized as a National member of the International Society of Photogrammetry of Remote Sensing (ISPRS). It is a moment of pride ISRS publishes Journal of the Indian Society of Remote Sensing (JISRS), earlier known as "Photonirvachak" in 1973, is celebrating its 50 years of existence. The society and the journal have come a long way. I understand it is now an online journal brought out by Springer Nature, a reputed publisher and its Impact Factor (IF) has improved to 1.89. The distinguished scientists who have led the editorial board and referees have made immense contributions in improving the scientific content and overall quality of the publications. I remember many landmark articles on aerial & satellite remote sensing, geographical information system, its applications in management of natural resources and environmental studies and so on. Besides it organizes many seminars and symposia to foster growth and awareness among the scientists and practitioners of remote sensing & GIS.

It looks as though only the other day I joined ISRS. I am rejoiced to know to commemorate the occasion in a befitting way the society is organising the golden jubilee celebrations on 24th February, 2023 at IIRS, Dehradun.

On this occasion, I congratulate the executive council of ISRS and also the members of the editorial board of JISRS for the remarkable achievement. I wish many more memorable events in times to come.

(Prof. B.L. Deekshatulu)

INDIAN SOCIETY OF REMOTE SENSING
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Dr. George Joseph

Former Director SAC, Ahmedabad &
CSSTEAP, Dehradun

February 01, 2023

Dear Dr. Prakash Chauhan,

I am happy to note that the Indian Society of Remote Sensing (ISRS) is celebrating the golden jubilee of ISRS and the Journal of the Indian Society of Remote Sensing (JISRS).

The ISRS started as the “Indian Society of Photo-interpretation” by a small team of professional from the Indian Photo-interpretation Institute (IPI) as it was known then. In the past few decades the ISRS has grown as a premier professional body with its chapters spread throughout the country. The society through its various regional and national programs provides an opportunity for the professionals in the field to share their experience to further the application of remote sensing and GIS for the national benefit.

To provide a platform for remote sensing professionals to share their research work, the society started its journal initially known as “Photonirvachak”. Currently, the journal known as The Journal of the Indian Society of Remote Sensing (JISRS) is the only journal in the country exclusively dealing with remote sensing technology and its applications. The journal has contributions from national and international scientists. It is gratifying to note that over the years the impact factor of the journal has been steadily increasing to 1.894 in 2021.

I am confident that society and the journal will contribute further to the scientific development, advancement, and dissemination of remote sensing and allied fields.

My best wishes for the golden jubilee celebrations.

(George Joseph)



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Late Dr. D.P. Rao

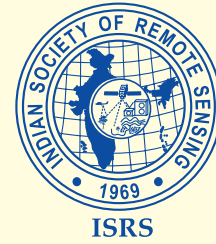
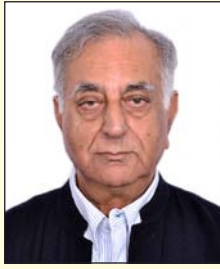
Former Director, NRSA / Former President, ISRS



**Extracted exact words from “Golden Reminiscences –
50 years of Capacity Building” Document of IIRS Published in June 2017**

“In 1969, the Indian Society of Remote Sensing was registered with IPI as headquarters. A journal named “Photonirvachak” was started a little later and which was renamed as Journal of the Indian Society of Remote Sensing, subsequently. It was a struggle in the early seventies to sustain the journal, as not many professionals were available to contribute articles. The senior staff among us was contributing articles to sustain the journal. Now the society has many chapters across the country and the journal has attained international reputation.”

(D.P. Rao)



Prof. S.K. Bhan

Former Associate Director, NRSC
Former Dean, IIRS
Former President, ISRS

I am very pleased to know that the Indian Society of Remote Sensing established in 1969 has completed more than 50 years as a premier professional society, having contributed significantly in the dissemination of remote sensing and GIS in the country. With the international linkages with the other professional societies viz., the International Society for Photogrammetry and Remote Sensing (ISPRS) and the Asian Association on Remote Sensing (ACRS), ISRS also enjoys the status of being a member of the above international societies. The society has been holding Annual Conventions and National Symposium regularly

As the President of the Executive Council of the Indian Society of Remote Sensing (2000-2002), efforts were made to streamline the format of research papers and on timely publication of the Journal. ISRS website started in 2002 was successfully operated by Ahmedabad Chapter.

Transformation and growth of the Society, keeping pace with the technology, have been possible due to the efforts made by Executive Councils and all the members of the ISRS.

It is matter of pride for all the members that Society is celebrating Golden Jubilee. This is defining moment in the history of the Society and wish more such events in future.

With best wishes

(S.K. Bhan)



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Dr. Ranganath Navalgund

Past President ISRS

February 05, 2023

It was Dr Baldev Sahai, the then head of our division at the Space Applications Centre, Ahmedabad who introduced me to the Indian Society of Remote Sensing and encouraged not only me but many of my other colleagues to become life members of the society sometime in late seventies or early eighties. Those were the early days for ISRS at the Space Applications Centre although; the society existed at Dehradun with a different name much earlier. I was fully exposed to the society a couple of years later when SAC/ Ahmedabad Chapter organized the Annual Symposium of ISRS in Water Resources (SWAR) at SAC, Ahmedabad. We were deeply involved in bringing out pre symposium off-set printed proceedings. I still recall the skirmishes between the then Secretary of ISRS from Dehradun who wanted a fresh copy of the proceedings and Dr. Sahai, the host, was not ready to oblige prior to the Inauguration. Formation of Ahmedabad chapter with a very large number of active enthusiastic members, led to getting more involved /dominating in the ISRS activities as well. I recall participating regularly in each symposium every year and having lively discussions in the annual general body meetings. Participating in Asian Conference on Remote Sensing at Hyderabad, ISRS meet at Guwahati, Ludhiana, Pune are still fresh in my memory. During the Ludhiana event the host took us to visit the Golden temple at Amritsar. Heavy paratha -breakfast at the road side dhaba and lunch at the langar of the temple were an experience of a kind, I don't forget. In the late nineties, and in cold winter of January, perhaps we had the Silver Jubilee symposium at Dehradun.

Participation in many of these events expanded my horizon about the geography of the country and allowed to forge friendships with so many stalwarts of remote sensing. The seminar at Lucknow was unique. First time my wife accompanied me as I was being awarded ISRS award, now known as P.R. Pisharoty award. Receiving it from Mr Kalyan Singh, the then Chief Minister of Uttar Pradesh and being greeted by him personally at the dinner hosted by him, I still cherish. At the request of the then Editor, of the ISRS journal we also brought out a special issue of the journal on RS in crop inventory.

Later years, I started getting into executive roles of the society. Getting elected as the President of ISPRS Technical Commission VII on behalf of ISRS at Amsterdam Congress, the Netherlands in 2000 provided me greater responsibilities. Organising an international symposium at Hyderabad in 2002 and also contributing handsomely to the financial kitty of ISRS was professionally very satisfying. It also brought me in contact and professional friendship with many international stalwarts in the field of remote



sensing and photogrammetry. I had the opportunity of attending Istanbul Congress in 2004. Later at the invitation of the President ISPRS, I gave a Plenary talk at the Melbourne Congress in 2012 and later at Hanover at the invitation of Christian Heipke. I also had to get the nominee of ISRS elected as President of TC VIII in his absentia at Melbourne. I also took up the position of President of the ISRS for two terms. Improving the scope of the journal by bringing M/s SPRINGER happened during this period. Receiving the Bhaskara award in Kolkata symposium organized by NATMO from my mentor Dr Kasturirengan sometime in 2008/09 was a precious moment. Subsequently, while I continued to participate actively in all the ISRS events, the role was elderly and different. I also delivered Vikram Sarabhai Memorial lecture, the flagship event of ISRS just as I retired from my professional career in ISRO.

I must also mention another important role I played vis-à-vis Indian Society of Geomatics. ISG was formed sometime in the mid- nineties at Ahmedabad to promote GIS and allied subjects. One of the unsaid reasons for this was that the ISRS was concentrating only on remote sensing and neglecting GIS. I was also one of the founding members of this initiative. It was soon realized that the existence of two societies with almost same set of members, organizing annual seminars by both was economically unviable and not very productive. Situation arose `Who will bell the cat`. I happened to be the President of both societies sometime during 2008-10/11. So I set up a small team to hammer out an understanding to hold symposia alternate year by each society and to take care financially. It was also agreed to provide an opportunity to the other society to hold its important events with the symposium. This arrangement is still working well exhibiting great maturity by both the societies.

ISRS had generally adopted the constitution and bylaws from the Indian Physics Association. Sometime in 2005-07, it was felt considering the changing needs, we need to tweak the composition of the executive committee and it was approved. However, many of the members including me have felt in the later years that the society EC has become less representative, less democratic and more centralized. May be we should go back to the original bylaws.

My professional career and the growth of ISRS have almost been parallel. Society provided me a great opportunity to meet and know a large number of professionals from different parts of the country and also at international level through ISPRS. In the earlier days, there used to be more heated discussions in the meetings but these days, there are no great debates/arguments. Everything moves too smoothly. I also wish I had contributed to the functioning of the journal a little more. On this occasion of the golden jubilee of the society and the journal, I sincerely wish all the professional glory to the society. I also wish ISRS and ISG merge harmoniously..

(Ranganath Navalgund)
Bengaluru (L-0125)



INDIAN SOCIETY OF REMOTE SENSING
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Dr. K. Radhakrishnan

Member, Space Commission
(Ex. Chairman, Space Commission;
Secretary, D/o Space & Chairman ISRO)

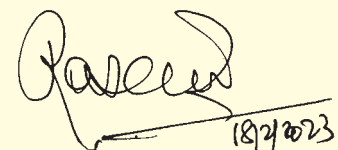


Indian Space Research Organisation
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The Indian Society of Remote Sensing has had a symbiotic connect with India's endeavors in aerial and satellite remote sensing, right from their start in 1969. Firstly, I wish to salute the early proponents of photo-interpretation, remote sensing and geospatial technology, who conceived the idea to establish such a national professional body, and to everyone who nurtured and raised it up with their collective acumen and might over the past five decades to emerge as a prestigious professional society.

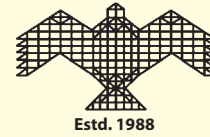
I cherish the satisfying opportunity to be associated with ISRS from the mid- 1980's, and contribute a bit through its Bangalore chapter. Notably, the proceeds from the Asian Conference in Remote Sensing that was organized at Bangalore in 1994, had prompted the starting of the coveted Bhaskara award of ISRS with ISRO extending gracious support. Again, delightfully during 2006-2008, it was my privilege to become President of ISRS that had already grown phenomenally in membership, chapters and programmes. Besides an eventful tenure, we joined hands with Springer India Pvt. Ltd as the publisher of the Journal of the Indian Society of Remote Sensing leading the path to its international recognition of our journal. As we were on the path of adopting the new technology, the then ISRS official website site was also launched during our time.

I wholeheartedly thank all those colleagues associated with ISRS and JISRS whose contributions and hard work have made society achieve this milestone of being one of the premier scientific societies in the country. I wish society all the best in their journey ahead.


(Dr. K. Radhakrishnan)

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Prof. Vinay Kumar Dadhwal

Indira Gandhi Chair Professor

February 06, 2023

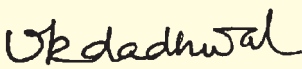
It is with great delight that I send my greetings and congratulate the entire member community of the Indian Society of Remote Sensing (ISRS) on the occasion of celebrations of Golden Jubilee of the society on February 24, 2023 at Indian Institute of Remote Sensing (IIRS), Dehradun.

Founding members of the society with headquarters at then Indian Photointerpretation Institute (IPI) had great foresight to establish the society as well as start a journal and promote growth of this new multidisciplinary research in India. Over the years the remote sensing and geospatial sciences, satellites and GPS technologies and their applications have grown with frenetic pace. So has the membership, relevance and the professional contributions of the members of ISRS. The global recognition of contributions of the geospatial sciences to society in meeting the future challenges as well as recent policy changes announced by the Government of India has further strengthened the importance of this truly multidisciplinary domain.

I was introduced to the society just after joining Space Applications Centre (SAC) in 1983 as a young volunteer supporting organizing the highly successful seminar on water resources. The society has continued to hold annual seminars, expand the literature through its journal, bring excitement of this developing field to young students and researchers, promote collaboration amongst the members through various meetings and also represent India internationally in International Society of Photogrammetry and Remote Sensing (ISPRS) and Asian Association of Remote Sensing. It also has excellent outreach program through activities of its chapters.

A very critical role of the society has been in nurturing and guiding professionals in this area in their professional career. I would like to gratefully acknowledge the important role it has played in my professional journey through various awards, lectures, honour of being president of the society (2012-14) as well as heading the Technical Commission VIII (Remote Sensing of ISPRS) and serving as editor of the Journal of Indian Society of Remote Sensing.

Once again my greetings, congratulations and best wishes for continued growth of the Indian Society of Remote Sensing and professional achievements of its members.


(Prof. Vinay Kumar Dadhwal)

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Indian Institute of Science Campus, Bangalore – 560 012, Karnataka, India



INDIAN SOCIETY OF REMOTE SENSING
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GOLDEN JUBILEE CELEBRATION



Sh. A.S. Kiran Kumar
Former Secretary



Indian Space Research Organisation
Department of Space
Government of India

It is a matter of great pleasure that the Indian Society of Remote Sensing is celebrating its golden jubilee. This is an occasion for us to acknowledge with gratitude the whole hearted support that the ISRS has received for the last 5 decades from all the associated members viz. eminent scientists, research scholars, students, etc. whose dedication and hard work has paid off in making the society a premier professional body in the country since its existence in 1969. It is especially an opportunity to congratulate all those associated with the society and the journal of the ISRS for their selfless support towards the growth of the society.

During the period 2014-16, during which, I had the privilege of leading the activities of the society, the international linkages with the International Society of Photogrammetry and Remote Sensing (ISPRS) and the Asian Association on Remote Sensing (AARS) were strengthened with the organization of the midterm symposium of Technical Commission VIII of the International Society of Photogrammetry and Remote Sensing (ISPRS) jointly by the ISPRS, ISRS and ISG at Hyderabad in December, 2014. Also, ISRS proposed to co-host the 2016 APRS Symposium with SPIE an international society advancing an interdisciplinary approach to the science and application of light and promoting emerging technologies through interdisciplinary information exchange, continuing education, publications, patent precedent, and career and professional growth at New Delhi in April, 2016.

While the society and the Journal was successful in passing on the fruits of space technology to the society in the past, it has a greater role in today's digital era. As several private entrepreneurs are establishing themselves in the space sector, especially in remote sensing and digital services, the society will be able to contribute to the much needed capacity building efforts in the country.

I wish the society and the journal all the success in this grand endeavour.

आ सी किरण कुमार
(Kiran Kumar A.S.)

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Ph: +91-80-2341 6406 / 22172330; Fax: +91-80-2341 0705; E-mail: kiran@isro.gov.in



Sh. Nilesh Desai

Distinguished Scientist
Director



Space Applications Centre
Indian Space Research Organisation
Department of Space
Government of India

February 16, 2023

I am happy to learn that the Indian Society of Remote Sensing (ISRS), is commemorating its Golden jubilee this year. ISRS is the premier professional society in India which works with dedication & commitment towards the advancement, dissemination & application of remote sensing technology amongst people, institutes & industries. I also extend my hearty congratulations for 50 years of successful journey of JISRS, the official journal of ISRS. My personal experience as a former president of ISRS during 2020-22 was the most enriching one in my professional career.

Over the last five decades, ISRS has made remarkable strides in imparting remote sensing methods in the field of survey, planning & management of natural & environmental resources through organizing seminars/symposiums & publishing journals, bulletins & proceedings. It is also heartening to note that ISRS has carried out exemplary work to enhance knowledge in various aspects related to emerging areas of remote sensing technologies among the professionals & scientists in this field. It gives me great satisfaction to witness this momentous occasion.

I am happy to know that, a commercial exhibition is also planned, as a part of the celebration to promote the recent trends and opportunities in the field of remote sensing, which will help to establish a platform for interactions and collaborative works among different stakeholders like industries and educational institutes in this field.

The golden jubilee celebration is the occasion to reflect on the ISRS's achievements over the years, draw inspiration from them and guide the society to even greater heights in future. I am confident that ISRS will continue its contributions towards remote sensing technology in the upcoming years. I once again extend my warm greetings and felicitations to all those associated with this society and wish good luck for such many more milestones to celebrate in the years to come.

(Nilesh Desai)

Address for Correspondence

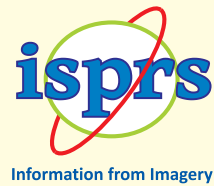
Space Applications Centre
Indian Space Research Organisation
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INDIAN SOCIETY OF REMOTE SENSING
&
JOURNAL OF INDIAN SOCIETY OF REMOTE SENSING
GOLDEN JUBILEE CELEBRATION



Dr. Christian Heipke
Past President, ISPRS



**Congratulation note for the ISRS Golden Jubilee
Dehradun, February 24, 2023**

Distinguished guests of the Golden Jubilee Celebration,

In the name of the International Society for Photogrammetry and Remote Sensing (ISPRS), it is my pleasure and honour to express our sincere congratulations to the 50th anniversary of the Indian Society of Remote Sensing (ISRS), one of the strongest Ordinary Member of ISPRS. At the same time, we would like to congratulate ISRS to having completed 50 years of publishing their prestigious remote sensing journal.

Indeed, when India decided to become a self-sustained space-faring nation in the second half of the last century, only optimists would have forecasted the scientific, technological and societal developments which have taken place in the country in those last 70 or so years. A complete line of space activities was developed under the auspices of the Indian Space Research Organisation (ISRO) - from the launchpad in Sriharitoka and the construction of rockets such as the Polar Satellite Launch Vehicle (PSLV), all the way to first class remote sensing payload. Examples of the latter include the Indian Remote Sensing Satellites, in particular IRS 1-C and IRS-1D and the Cartosat family, not to forget the lunar missions Chandrayaan-1 and 2 as well as the Mars Orbiter Mission (Mangalyaan). These developments have always been on the scientific and technological forefront on a global basis. For example, Cartosat-3 offers the finest ground resolution, 0.25 m per pixel, currently available to the civilian community worldwide. In addition, India and ISRO have also paid attention to serving the nation. Work in the Space Application Centre (SAC), the National Remote Sensing Centre (NRSC), the Indian National Centre for Ocean Information (INCOIS), the Indian Institute of Remote Sensing (IIRS) and many others prove that the scientific and technological developments have had a tremendously successful impact on the life of common people.

All these developments, unparalleled on a global scale in terms of quality, speed of development and dedication to produce sustainable results, were made possible also through the creation of the Indian Society of Remote Sensing, whose Golden Jubilee we celebrate today. To the founders of ISRS, it was obviously clear from the beginning that a community of like-minded people was needed to make good use of the acquired data, that a link to the international community such as ISPRS would be a clear advantage, and that the findings of their members would have to be published and thus made available to the society at large. As a result of these wise thoughts, ISRS now have more than 6000 members and is one of the strongest Ordinary Members of ISPRS. Today,

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we also celebrate the 50th anniversary of the Journal of the Indian Society of Remote Sensing (JISRS). JISRS is one of the premier scientific journals in its field and enjoys a wide readership, both nationally and from abroad, now published with Springer Nature.

Many individuals have had a major share in these successful developments. ISRS has almost continuously hosted ISPRS Commissions for more than 20 years, and scientists of ISRS have organised many large symposia and more dedicated smaller workshops during this time. For more details, I refer the reader to the celebration note of ISPRS President, Lena Halounová, in this memoir.

I will mention, however, the large donation ISRS recently made to TIF (The ISPRS Foundation) in support of the ISPRS work, in particular for the younger generation. On the basis of this development, ISPRS is able to announce more travel grants and other support to the community such as the scientific and the educational and outreach initiatives, open to all members of the ISPRS community - I would like to express my sincere thanks for this very generous deed.

In closing, I wish ISRS and JISRS a bright future and continuation of the success the world has witnessed over the last 50 years. And I hope that one of my next journeys to India will lead me to the first ISPRS Congress held in this country.

Thank you very much.

(Christian Heipke)



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Dr. A.K. Bhattacharya
Former Vice President, ISRS



I am happy to learn that the Indian Society of Remote Sensing (ISRS) has successfully accomplished its existence for the past five decades and the society is celebrating its Golden Jubilee on 24 February, this year. On this occasion, I do cherish my close long association with ISRS, when I took up the responsibility of the Chief Editorship of the then Photonirvachak, the flagship journal of ISRS, from 1979 till 1983. Lately, I also had the opportunity to hold the office of the Vice President of the ISRS Executive Council from 2002-2004.

In the late sixties, the Society was nucleated with the sole purpose to bring together like-minded researchers who are engaged in employing remote sensing technology for the evaluation of natural resources and for monitoring the dynamic processes of the earth. I am glad to learn that in the past 50 years, ISRS has made enviable growth with more than 6000 memberships, which include both national and international researchers. It is a matter of pride that as a result of opening many local chapters in our country, today ISRS strive to accomplish its motto 'Serving Humanity Through Space Technology' and disseminates knowledge and promotes the technology through various activities.

I am delighted to learn that the journal, Journal of the Indian Society of Remote Sensing (JISRS), with its humble beginning as Photonirvachak, has also achieved wide acceptance among both national and international audiences. This is loudly reflected through its appreciable performance indices, which include progressive growth in the impact factor apart from a high citation index as compared to many other Indian journals.

I am proud to have associated with ISRS in different capacities. While ISRS and JISRS celebrate the Golden Jubilee Celebration, I wish all the success to the sincere endeavours being made towards holding high the motto of ISRS both in letter and spirit.

My hearty congratulations and best wishes.

(Asis Bhattacharya)



Prof. P. C. Pandey

Adjunct Professor, Earth Sciences
Indian Institute of Technology, Gandhinagar



My days at SAC (1977-1997) & Association with ISRS

When I was a research scholar at Physics Department, Allahabad University during 1968-72, our professor Krishnaji used to tell us during Tea time - a unique culture created by our Professors of Microwave Research Laboratory- about Professor Vikram Sarabhai and his ambitious plan to enter in the domain of space programmes. Not only that we used to know the great scientist of that period who are committed to build strong science base in India, such as Dr. Toshniwal, Dr. D S Kothari, Dr. A P Mitra, Dr Menon, Dr. Bhabha, Dr. Sarabhai, Dr. Rastogi, Dr. K.R. Ramanathan, Dr. Govind Swaroop, Dr. Venu Babu etc and many others that used to inspire us all.

After completing my Ph.D. I applied for a research officers position at CWPRS, Khadakwasla, Pune through UPSC and got selected and joined in 1973. After completing four years at CWPRS, I saw the advertisement from Space Applications Center Ahmedabad for Scientist D position without having any idea of the types of job. I applied and, was interviewed by Prof. Yash Pal, Prof. Pisharoty, Dr O.P.N. Calla, Dr George Joseph, Prof P.D. Bhavsar and few more whom I am unable to recollect. I got selected along with late Dr. V. K. Garde and joined SAC in 1977. Prof Bhavsar was area chairman and one day he took me to Prof. Yash Pal just for introduction. First there was some fear before I met Professor Yash Pal and after the meeting we came out happily from his room after a cup of tea. I was quite impressed with his talk and style and friendliness. With hesitation, I asked sir, I have no idea of remote sensing, how you have selected me. His reply was that it means I should not have become the Director of SAC since I also did not have any previous experience of remote sensing. I said no sir I did not mean that you are one of India's finest scientist from TIFR, one of the best institute in the country. He advised me that India is preparing for microwave remote sensing satellites and he would like me to develop the field from scratch with applications in oceanography and meteorology. He also encouraged me and said that since I have very good basic understanding of Physics that too in microwaves, I can become world leader one day in the field of microwaves. He gave me his personal book on radiative transfer by S. Chandrasekhar, the Nobel Laureate which he collected from me after his retirement.

Those were the periods when we all were learning ourselves and with our friends and colleagues and were self-motivated. All our leaders and seniors were of very high caliber with human touch and caring and motivating to all of us. We were fortunate to have learnt from them that has shaped our career and life. I express my gratitude to Prof. Satish Dhawan, Prof. Yash Pal, Prof. U.R. Rao, Dr K Kasturirangan, Dr P.S. Goel, Prof. P.D. Bhavsar,



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Dr Baldev Sahai, Prof. E.V. Chitnis, Prof. P.P. Kale, Prof. Shankara, Dr. A.K.S. Gopalan and my many colleagues from SAC/ISRO.

Remote sensing was just evolving during that period and Prof. Pisharoty was the main driving force behind that along with many other scientists. I was also an office bearer of ISRS and during that time it was decided that we should have an award in the honour of Prof. Pisharoty and ultimately that is reality now. At that time Prof. Pisharoty was in Pune and we requested him to be present during award function. He decided to come one day in advance to Ahmedabad and we talked about his travel plan. I suggested him that he should have minimum two days or three days in hand if he wants to join us in Ahmedabad. Ultimately he agreed and first day the flight from Pune to Mumbai was cancelled. The next day he came to Mumbai and the flight from Mumbai to Ahmedabad was cancelled and he stayed in IMD Guest House and, ultimately reached Ahmedabad in time to attend the function !

I owe all what I have achieved today is due to all my friends, colleagues and leaders who guided me.

(Prem Chand Pandey)



Dr. A.N. Singh

Former Director, UPRSAC &
Former Vice President, ISRS



My Reminiscences....

It was the year of 1974 when I had the pleasant occasion of witnessing the releasing ceremony of the first printed volume of the Journal of the Indian Society of Remote Sensing (then named Photonirvachak, the Journal of the Indian Society of Photo-interpretation) at IIRS (then known as Indian Photo-interpretation Institute), Dehradun, as a staff member of the Soils Division. Dr. M. K. Raychaudhary was the President of the society. I also recollect that after some days of the release ceremony, Prof. T. R. Srinivasan, then Secretary of the society and also Head, Soils Division, IPI, called me and gave a list of members to whom the copy of the first issue of the journal was to be sent by post since there was no assistance available to the secretary for these works in those days. It took me a few Sundays to complete the work as it also involved hand correction on one of the figures (boundaries drawn on ERTS-1 imagery of 26 July 1972 were faint) in the first paper of the journal by Robert N. Colwell, Professor of Forestry, University of California, and Director of the Berkley Office of the Earth Satellite Corporation, USA, titled 'Some recent developments in photographic interpretation'. I vaguely remember having sent slightly more than a hundred copies of the journal, which included out-station members and complementary copies to some organisations working in the area of aerial photo-interpretation, with a covering letter to subscribe it in their libraries.

Since then, the society has grown tremendously in terms of its membership, technical content of the journal, its printing quality, and publication schedule. During the initial years, the number of papers received for publication in the journal were limited, and it was difficult to bring out two issues of the journal annually. Most of the research papers in those days were based on aerial photographs, and the restriction policy on its use was a major reason for the number of papers for publication being low. With the advancements in satellite remote sensing technology, the number of research papers started increasing slowly during 1980s. Subsequently, the name of the society was also changed to Indian Society of Remote Sensing to include both satellite and airborne sensing of earth surface. Editors of the journal also played their important role in improving the quality of research papers, get-up of the journal, and its publication schedule. Dr. A. Bhattacharya during the early 1980s, and Dr. Ramesh P. Singh in 2001 may need special mention, among others. With the publication of the journal given to Springer, it has attained International status, and further improved its rating. Currently, it is published monthly, instead of two issues annually during initial years, and four issues subsequently. It has an editorial committee consisting of editors, associate editors, and is headed by a chief editor.



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Membership of the society increased significantly during the 1980s, when the local chapters were started at different locations. When Dr. Baldev Sahai became the President in 1986, he started a membership campaign and gave targets to all chapters of the society. I recollect he gave a target of 50 members to Lucknow chapter, where I was the secretary. We took up the challenge and within a few months, reached the target from the initial 17 members to 52 by roping in scientists from user departments like- GSI, ICAR Institutes, state departments of Agriculture, Forest, Geology & Mining, Environment, and others. Now, when we are celebrating its 50 years, the society has 27 Chapters, and the membership has increased to more than 6000.

I firmly believe that with the rapid growth of geospatial technology taking place in India as well as globally, our society will also continue its growth in future. I also thank the organisers of ISRS Silver Jubilee celebration for giving me an opportunity to be here today, and sharing my reminiscences.

(A.N. Singh)
Lucknow



Dr. Y.V.N. Krishna Murthy

Senior Professor & Registrar, IIST

February 16, 2023

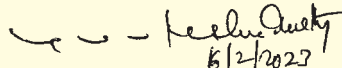
It is a great moment for all the members of the Indian Society of Remote Sensing (ISRS) in celebrating its Golden Jubilee which has achieved its prime objective in building the capacity in the country for effectively utilizing remote sensing technology and its application for national development, through conducting national conference and publishing widely the outcome in Peer Review Journal in JISRS. In early 80's as a young research scholar from Andhra University, Visakhapatnam, I got amply benefitted by being a member of the society both in acquiring knowledge and also in networking with professionals. The ISRS Annual convention organized in 1985 in collaboration with Department of Geoengineering, Andhra University, Visakhapatnam with the theme highlighting on rural and urban applications is a game changer for me and many researchers to excel in the domain of remote sensing and outreach.

The concept of organizing annual convention and symposium by the society in different parts of the country, is unique giving opportunities for youngsters and seniors to deliberate on topics of national and regional priority and assessing the impact of remote sensing technology assimilation in the system of good governance of the country. The system of awards for talented researchers at all levels in a transparent manner is another unique aspect of ISRS.

The collaboration of ISRS with ISPRS and ACRS has given stepping stone for many young minds of the country in presenting the advances in research in remote sensing globally which is testimony of the strength of the ISRS.

My hearty congratulations to all the members of the ISRS, the elected executive committee members (past and present), and editors of the journals (past and present) making this possible with the dedicated efforts and with a touch of passion.

I wish the celebration a grand success.


6/2/2023
(Y.V.N. Krishna Murthy)

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Dr. D.R.M. Samudraiah

Former Deputy Director, Sensors Development Area, SAC;
Former Vice-President, ISRS

ISRS – An experience of learning

It is heartening to know that Indian Society of Remote Sensing (ISRS) and Journal of ISRS (JISRS) have completed 53 years. ISRS is synonymous with Remote Sensing (RS) in India. In fact, the Golden Jubilee celebration of ISRS on 24th February 2023, is the celebration of the glory of Indian Remote Sensing and its contributions to the development of India and the world. India is one of the top countries in the RS technology with the launch of about 100 remote sensors for observing Earth, Moon, MARS and Space. Data from Indian sensors is being used all over the world. ISRS is a unique society where experts from multiple disciplines come together, share their research, learn from each other and enhance their contribution to the world. It is also a great pleasure and satisfaction to witness the very significant growth of ISRS activities and JISRS in terms of membership, chapters, seminars, fellows, awards and publications over these 50 glorious years. ISRS has been very regular in its programs at local and national level and also publications through its popular journal of JISRS. ISRS has been successful in developing experts in multi-disciplinary science and technology, remote sensing.

My association with ISRS started with my joining Space Applications Center (SAC) in 1976 for developing TV Payload for Bhaskara-1, the first experimental remote sensing satellite of India. Formally, I was made member of ISRS by my friend Late Dr. S.K. Pathan, which helped me to interact with many. As a payload designer, I always got the feeling of motivation and satisfaction after seeing the presentations during ISRS seminars, on the potential of imagery. I had the opportunity to serve ISRS as Chairman, Ahmedabad Chapter from 2009 to 2011. It was an amazing experience to organize large number of lectures, seminars, workshops, exhibitions and interactions with the participation of school children and general public. ISRS-AC has always been active in carrying forward the goals of ISRS with more than 400 members. It has been a pleasure to work along with highly enthusiastic members and office bearers. We could improve the newsletter "Signatures" and make it a sought-after book with each issue providing the latest information on several themes in simple format. It was also successful in teaming up with local chapters of Indian society of Geomatics, Indian Meteorological Society, Cartographic society, Mechanical Engineers Society and Gujarat Science City, Ahmedabad and SAC exhibition. I also got the opportunity to serve as Vice -President of ISRS national body from 2011 to 2013. It was a learning experience to successfully organize the national symposium at Delhi. I observed that each chapter of ISRS strives to serve the cause of remote sensing and is respected by all. "IRS-1A 25 years" meet

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at Bengaluru, had been memorable experience. It showcased India's capability and leadership in remote sensing. The coordination with various societies and industry, gave us the incredibly positive feeling of a family meeting with all the contributors and stakeholders of the IRS program, exchanging and cherishing their rich experiences.

I wish ISRS and JISRS a very great future. I am sure that ISRS will play key role in the country's efforts to reform space sector for harnessing all the potential available in innovation, technology, workforce, and finances and to usher India to be the top leader in space research and space applications.

(D.R.M. Samudraiah)



P.G. Diwakar

ISRO Chair Professor
National Institute of Advanced Studies

Reminiscence about ISRS and JISRS

Having joined ISRO, Dept of Space in 1984, as part of National Natural Resources Management System (NNRMS) at Bengaluru under Dr V.R. Rao, who was spearheading remote sensing related activities from the program office, I was not only introduced to remote sensing but also provided with a copy of Photonirvachak to read and understand the type of research going on in the country. Right from that time I have been, in one way or the other, participating in the activities of the Indian Society of Remote Sensing (ISRS) all the way through. Personally, it has been a long journey for me in ISRO and also with ISRS and all its unique initiatives. Having been closely associated with the society, it always gave me great opportunity to get involved in varieties of scientific activities, many national seminars, national conventions, and excellent networking with the large scientific community across the country and outside. The society provided varieties of opportunities to exhibit our talents, right from our younger days, which has helped us in widening the horizon of our knowledge. I remember how I was encouraged to publish my first paper in Photonirvachak in the earlier days of my career, related to the use of NOAA-AVHRR for producing cloud-minimised vegetation maps using thermal thresholding for cloud masking. It was a great joy those days to get a paper published based on the kind of works we were doing to propagate the applications of remote sensing to help the Government to reach out to the common man. I would say that the society and the JISRS has done a yeomen service and come a long way in establishing itself as one of the best societies, as well as the top scientific journals, at the global level and maintaining very high standards. The quality of research papers being published, the kind of papers that come in for reviews from all over the world and the review process that is followed in clearing papers for publications are commendable. The initiatives taken by the ISRS with dedicated efforts by all the office bearers over a period of time has paved the way and taken the society + journal to an appreciably high level of recognition across the cross section of the research community and it is always a challenge to sustain this and the teams are always living up to the expectations. The fact that JISRS is completing its 50 years is a great occasion for us to come together and applaud the efforts and also lay down clear vision for the future, particularly on the standards of publications, review mechanisms, quality of reviewers etc. Younger generation have always been a big contributors to the society and the journal, which needs to be sustained in the future too, with a greater vigour.

On such a great occasion, I convey my special complements and best wishes to all the society members, the office bearers, the past/present presidents & secretaries and all other contributors. I am sure the society and the journal will continue to provide the best platforms for the researchers and sustain the greater standards in all its operations in the future too. Best wishes

(P.G. Diwakar)



Sh. R. Krishnan

Fellow ISRS FNASc

Former Director ADRIN



As a Fellow of ISRS and a Former editor of Photonirvachak, I cherish my long association with ISRS.

The period from 1975 to 2000 was the golden era of remote sensing in India. From the Landsat to the IRS and Cartosat series, both the satellites, payloads and applications blossomed.

The annual conferences of ISRS were our important watering hole for all RS professionals.

I recall the pioneering contribution of Professor B.L. Deekshatulu, Dr. A.K.S. Gopalan and others to ISRS Photonirvachak.

I wish the function all success.

(R. Krishnan)



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Prof. P.L.N. Raju
Special Secretary Govt. of Assam



Dear Members of the ISRS,

It is a momentous occasion for all of us to celebrate the golden jubilee of the Indian Society of Remote Sensing (ISRS) on February 24, 2023.

I have been associated with ISRS for over three decades in various capacities and have contributed in whatever little way possible to accomplish its objectives. These include promoting and disseminating remote sensing technology in the fields of mapping, planning, and management of natural resources and the environment through awareness programs, seminars/conferences, workshops, and training programs for professionals. Additionally, the society conducts quizzes/debate competitions for students, encouraging them to pursue the profession.

The flagship activity of the society is publishing a quarterly journal. However, with a large number of article submissions and a high impact factor, the journal has become a monthly publication.

ISRS is one of the largest professional societies with over 6000 members. It is recognized internationally as a member of the International Society of Photogrammetry and Remote Sensing (ISPRS) and the Asian Association of Remote Sensing (AARS). ISRS is acclaimed for organizing international conferences in association with ISPRS and AARS.

I have had the privilege of serving in various positions for ISRS, including Secretary of the ISPRS Technical Commission Working Group VI/4 on "Joint Education Programs for Cross Border Education" from 2008-2012, Secretary of the Indian Society of Remote Sensing from 2010-2012, Treasurer of the Society of Remote Sensing from 2006-2010, Secretary of the ISPRS Technical Commission VI Remote Sensing Applications during 2012-2016, and Vice President of ISPRS Technical Commission V Education and Capacity Building during 2016-2022.

As we celebrate this momentous occasion, I believe it would be appropriate to publish a souvenir/memoir to commemorate the 50 years of ISRS. This publication can showcase the history, achievements, and contributions made by the society in promoting remote sensing technology in India. I take immense pride in the achievements made by ISRS in the last 50 years. As someone who has witnessed the growth and development of ISRS over the years and has been associated with the society, I would be honored to contribute to its future professional endeavors.

Warm regards,

(P.L.N. Raju)



Dr. Anjana Vyas



CHERISHED MEMORIES

Dear Esteemed Members of ISRS,

I am thrilled to offer my heartfelt greetings on this occasion of the Golden Jubilee Celebration of our valued society. This significant achievement is a demonstration of the continued enthusiasm, committed efforts, professional calibre, tenacity of all our esteemed members, who have come together to form a dynamic community of scholars, educators, scientists and researchers.

I feel proud, esteemed and privileged to have been associated with the Indian Society of Remote Sensing (ISRS) for past 33 years. It was in the year 1987, when I was a planning faculty at CEPT, Ahmedabad when one day the then Dean, CEPT, Dr. R. N. Vakil directed me to study remote sensing at IIRS, Dehradun. Being an academicians, urban and regional planner, I found this course extremely interesting and useful. From technology oriented learning to applications-oriented teaching, I found some gaps, missing links and a lack of connections. "Photonirvachak", now rechristened as the Journal of Indian Society of Remote Sensing (JISRS) helped me in bridging the gap. It contained research papers, and results of scientific studies on varied topics, with varied scales: macro to micro and urban settlements planning to natural resources measurement at regional dimension and soon it became my favourite journal and motivated me to publish papers in it. Progressively, the journal has been growing popular both, nationally as well as internationally. I feel proud to be one of the associate editors of JISRS, receiving and reviewing a large number of manuscripts.

For the past 53 years, ISRS has been a pioneer in promoting remote sensing and GIS in India and abroad in the relevant domains of science, education, and research. Through its numerous programs, training activities, campaigns, publications as well as other functions, the society has offered a platform for members to exchange their expertise, research, and scientific experiences, and to collaborate toward the advancement of the discipline. Due to my association with society and its members, I was encouraged to start offering remote sensing subject in planning syllabus in 1987 and later started the Master's program in Geomatics at CEPT in 2006. I became involved in various activities of society, for which I was responsible at CEPT for close to three decades. Additionally, organizing remote sensing day with multiple activities; conducting field trips, seminars, popular lecture series and so many varied activities which ISRS helped in carrying out. Being in Ahmedabad, closely associated with Space Application Centre (SAC), my



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mentor institution, contribution to the ISRS has gradually increased from an executive council member to vice president of a chapter, 2nd Vice President at a National level, Chair of ISPRS (International Society of Photogrammetry and Remote Sensing) working groups. Learning and understanding the values of scientific society and its respective contribution, I enthusiastically motivated the young students to study remote sensing, becoming life members of the ISRS.

As we rejoice in the historic moment of completion of 50 years of the JISRS, it is a matter of pride to society as it continues to advance its position in journal ratings and rankings. Let us pause to appreciate all the authors, hardworking reviewers, and the entire editorial team as they continue to serve the community and make it possible for quality work to be published over years. We are all proud of the accomplishments of the past and look forward to the promising future ahead. The prospects that await us are abundant and intricate, I am optimistic that together, we will overcome any challenges in the path as the community and continue to drive progress in our domain.

Once again, I express my warmest congratulations to all members of the society on its outstanding accomplishments. Let us unite to make a meaningful impact on the world and to secure continued growth, innovation, and excellence by ISRS and JISRS.

Best regards,

(Anjana Vyas)



Dr. A.S. Rajawat

Group Director, Geo-Sciences, Hydrology and Cryosphere Sciences & Applications Group & Sci./Engr. H (Retd., 2020), Space Applications Centre, ISRO, Ahmedabad
Fellow, ISRS (Since, 2020); Associate Editor, JISRS (2010-2016)
Fellow, ISG (Since, 2020); Vice President, ISG (2014-2017; 2011-2014); Chief Editor, JoG (2018-2020)
Secretary, ISRS-AC (2018-2020; 2004-2006; 2002-2004)

Golden Jubilee celebration of the Indian Society of Remote Sensing (ISRS) and Journal of the Indian Society of Remote Sensing (JISRS) has provided an opportunity to share some of the moments of excitement and thrill during my journey through ISRS soon after joining Space Applications Centre (SAC), Indian Space Research Organisation (ISRO), Ahmedabad in May, 1983.

It was the time, when annual convention of the ISRS along with a National symposium, "Remote Sensing in Development and Management of Water Resources (SWAR)", was organized at SAC. The symposium was a grand success. Team efforts at SAC led to constitution of the first chapter of ISRS at Ahmedabad (ISRS-AC) in December 1983, with initial strength of 33 members. Till date, ISRS-AC is the first, largest and most active chapter of the society with current strength of around 787 Life members.

I was elected in ISRS-AC Executive Council (EC) as member (1990-1992; 1996-1998), Treasurer (2000-2002), Secretary (2002-2004; 2004-2006 and 2018-2020). During these terms, various activities viz., World Environment Day, National Remote Sensing Day, Prof. P.R. Pisharoty Memorial Lecture Series, Shri Lakshmi Narayan Calla Memorial Lecture Series, Exhibitions, Educational Excursion Programs, ISRS-AC Newsletter "SIGNATURES", Popular Lectures, Regional Workshops, Tree Plantation etc. were regularly organized at various schools, colleges, university campuses, central/state government departments under the jurisdiction of the Ahmedabad Chapter.

In addition, we were involved in organizing various activities of the International Society of Photogrammetry and Remote Sensing and organisation of the annual conventions along with national and International Symposiums of the main society. Major events organised were Second International Symposium on Geo-information for Natural Disasters (Gi4DM), with myself as Organising Secretary and International Symposium on "Geospatial databases for Sustainable Development" with myself as Treasurer organised as ISPRS TC-IV events and Annual Convention of ISRS by ISRS-AC at Goa during 2006.

There was a joint decision taken by the Indian Society of Geomatics (ISG) and ISRS to organize Annual Conventions along with International/National Symposiums jointly with



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each society taking a lead alternate years respectively. I was elected Vice President, ISG for two terms consecutively i.e., 2011-2014 and 2014-2017. It provided an opportunity to be involved in interacting with various chapters and guiding towards organization of various activities, providing support in various committees, while organizing ISG-ISRS or ISRS-ISG annual conventions and national symposiums (Visakhapatnam, 2013; Jaipur, 2015; Ahmedabad, 2018; Ludhiana, 2018; Shillong, 2019) and regional conferences (Hissar, 2017; Shillong, 2014).

I was nominated as Associate Editor, Journal of the Indian Society of Remote Sensing during the period 2010 and continued to work till 2016. It was during this period that editorial board was reconstituted. Quality and timeliness of the journal publication through Springers improved leading to substantial improvement in impact factor. Subsequently, I was nominated as Chief Editor, Journal of Geomatics and actively contributed during the period 2018-2020.

Working in ISRS and ISG gave an opportunity to learn how events are organised, how to work in a team, how to handle finances, how to strengthen the membership and finances. It also gave an opportunity to interact with students, teachers, faculty of schools, colleges besides global scientific and technical community attached with remote sensing and geo-informatics. It helped increasing networking and gave self-satisfaction, when events got successful and applauded.

I take this opportunity to place on record my sincere gratitude to all members of executive councils and other members of ISRS and ISG for their support during my tenures and further till date.

While appreciating active contributions of seasoned professionals, my sincere appeal is to new and younger members to contribute with enthusiasm in professional societies, so that some new vision can be timely inculcated and thrill, excitement and vigor in activities of ISRS improves to greater height.

Wishing the Golden Jubilee Celebration of ISRS and JISRS a grand success !

(A.S. Rajawat)



Dr. Sameer Saran

Head, Geoinformatics Department, IIRS &
Former Vice President (2019-2021)

It is a matter of pride and honor that today we are witnessing Golden Jubilee celebration of prestigious Indian Society of Remote Sensing (ISRS) and I am glad to share my experiences with everybody while working with ISRS for almost a decade from 2011 to 2021 in various capacities. Today society has reached to incredible heights due to untiring efforts and visionary approach of our seniors who have nurtured it right from its existence. The society has progressed in all of its endeavors which includes the Journal of Indian Society of Remote Sensing (JISRS), international relations with ISPRS and AARS, popularization and outreach programmes, this accomplished due to vision and leadership of our beloved seniors. I honour all former office bearers and senior veterans for their selfless commitment towards the expansion and development of the society.

I began my journey in 2011 as a society's treasurer with an objective of managing income and expenditure of the society. Eventually, after serving four years with a respectable rise in our corpus, I was nominated as secretary of ISRS in 2015 under the overall guidance and mentorship of Dr. Shailesh Nayak sir, President ISRS. One of the immediate tasks was to develop ISRS website which should cater to day-to-day requirements of ISRS life members and offer holistic coverage of ISRS activities. Thereafter, new user-interactive ISRS website was designed and developed, and launched in 2016 during annual convention and national symposium. The website comprised of unique features like online membership, search engine for life members, online access to JISRS journal and chapter logins. Another exceptional activity carried out was the popularization of remote sensing and GIS at country level through virtual mode on National Remote Sensing Day in 2017. This was one of the largest outreach performed at country level through digital means with approximately 1 lac participants. The Department of Science & Technology (DST) recognized ISRS with a national award for the virtual popularization of RS and GIS. With this success, we started organizing significant day celebrations like National Remote Sensing Day, Science day etc. virtually for benefitting all distributed chapters. Apart from JISRS journal, new activity of publishing books/monograph in the emerging trends of geospatial technology was initiated with Taylor & Francis. Other significant events conducted were Asian Conference of Remote Sensing (ACRS) in 2017 and ISPRS Mid-term Symposium in 2018. After serving four years as Secretary till 2019, I was elected as First Vice President of ISRS for another 2 years. The major irony of not conducting any physical events during the tenure was due to Covid19 pandemic constraints, despite of all odds we could organize and telecast National Remote Sensing day on Doordarshan



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with Dr. K. Kasturirangan sir as Chief Guest. I am happy to be associated with Asian Association of Remote Sensing (AARS) as Deputy General Secretary since 2019 and one of my responsibility is to conduct Satellite Program Session for Asian countries in every ACRS.

In the end, I wish ISRS to attain more global visibility at international diaspora by including foreign participation in the form of life members, chapters, regional editors etc. for better outreach and recognition.

(Sameer Saran)



Punjab Remote Sensing Centre
A Govt. of Punjab Enterprise

Dr. Brijendra Pateriya

Director, PRSC
Chairperson, ISRS - LC

February 03, 2023

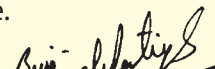
Remote sensing as science and technology has undergone sharp development with numerous new initiatives and breakthroughs from intelligent sensors to data science. Information based developments such as spatiotemporal and long time-series data analytics, data cubes, smart data management, information extraction technologies, computational intelligence, platforms and services are undergoing a fast evolution. Keeping all these in view, Indian Society of Remote Sensing (ISRS) is organizing the events with change in the pace of technology.

It's a matter of pride to note that ISRS is celebrating the 'Golden Jubilee' to complete 53 years of its existence. Besides this, Journal of the ISRS (JISRS) with its initiation as "Photonirvachak" in 1973 is also completing its 50 years in 2023. During more than 50 years, ISRS has worked on building collaborations between science and policy, including the data providers, scientists, planners, and policy- and decision-makers by organizing symposium, popular lectures, publishing journal, bulletins and proceedings at national regional and local chapters levels.

Being Chairperson of the Ludhiana Chapter of ISRS, I am happy to share that the ISRS-LC Chapter has shown absolute commitment to the ISRS ideals, and is tireless in the promotion and support of the society and its work. The members of chapter are putting a lot of time and energy into supporting and encouraging students/professionals to become active in ISRS by attending national conferences and local meetings. The chapter is also publishing a newsletter. The members of the chapters brought laurels by winning fellowships and awards from ISRS and other reputed societies. The Ludhiana chapter won the 'Best Chapter Award' of ISRS during the year 2015 and 2019.

I feel privileged and honoured to send this message on the occasion of Golden Jubilee celebration of ISRS & JISRS. My best wishes for successful conduct of this great celebration and this would lead to the development of highly useful strategies to use the space technology and data science for management of resources and citizen centric services. On this great occasion there is sense of acknowledgement and satisfaction to remember ISRS founders, and leaders for providing such wonderful knowledge exchange platform to the generations and wish ISRS may grow many fold ahead in time.

With warm wishes and best regards,


(Brijendra Pateriya)

Address for Correspondence

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Bird's Eye in Space

Celebrating Silver Jubilee of IRS-1C

Celebrating Silver Jubilee of IRS-1C



Books/Monographs Published jointly by ISRS and Authors



Books/Monographs Published under MoU signed between Taylor and Francis (T&F) and ISRS



GOLDEN JUBILEE CELEBRATION

VISUAL JOURNEY OF ISRS





First Prize Winner Painting – Earth Day Celebration 2010

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First ever National Symposium of the ISRS in the year 1980: 1) Dr. Baldev Sahai; 2) Dr. Natarajan; 3) Dr. B.R.M. Rao; 4) Sh. S.V. Singh; 5) Sh. A. Perumal; 6) Sh. S.K. Subhramaniam; 7) Sh. G. Behra; 8) Sh. V.K. Jha; 9) Sh. Inderjeet Dhingra; 10) Sh. D.K. Jugran (Image Courtesy: Sh. D.K. Jugran)





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Inaugural Function of the National Symposium in the year 1989 on "Engineering Application of Remote Sensing and Recent Advances"



National Remote Sensing Day being Celebrated by Indore Chapter

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Winter School on "Application of Space Borne Data to Earth Science" by Indore Chapter in the year 1992



Prof. Yashpal Delivering the inaugural address during the Inaugural of National Symposium – 1992 (Seated on the dais from L to R: Dr. S.K. Shukla, Chairman, Local Organizing Committee, Shri Harish Chandra, Co- Chairman, National organizing committee, Dr. V.K. Saxena, Chief Secretary, Govt. of U.P., Shri Kalyan Singh, Chief Minister of U.P. and Chief Guest, Shri Daulat Ram, Minister of Science and Technology, U.P. and Guest of Honour and Shri P. Kale, President, ISRS and Chairman, National Organising Committee)



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Dr. Vikram Sarabhai Memorial Lecture by Dr. S.Z. Qasim, Member, Planning Commission (From L to R: Shri T.S. Kachhwaha, Organising Secretary, Shri V.M. Ambedkar, Co-Chairman, Local Organizing Committee, Dr. S.Z. Qasim and Shri P. Kale, President ISRS)



Dr. S.N. Das, Chief Secretary, Assam, inaugurates the Exhibition, On the left is Dr. A.K. Goswami, Chairman, LoC and on the right are Shri Haren Bhumij, Chief Guest, and Dr. D.C. Goswami, Secretary, Organizing Committee.

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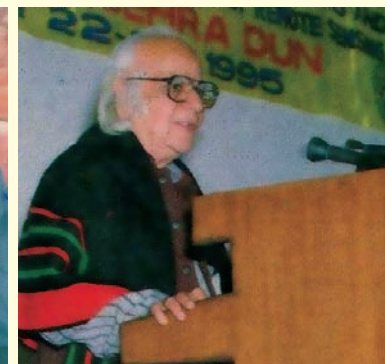
Inaugural Function of National Symposium – 1993 [On the dais L to R: Shri K.V. Ravidran (Secretary, ISRS), Prof. P.R. Pisharoty (Guest of Honour) Shri. Haren Bhumij, Minister for Science, Technology and Environment, Assam (Chief Guest), Shri Pramod Kale (President, ISRS), Dr. N.K. Choudhury, VC, Guwahati University (Guest of Honour)]



Laying of Foundation Stone of ISRS building by Dr. K. Kasturirangan, then Secretary, DoS and Chairman, ISRO



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Inauguration of the Exhibition by Prof. M.G.K. Menon – year 1995



1995 National Symposium on "Remote Sensing of Environment with Special Emphasis on Green Revolution" Inaugural Function- (L to R): Dr. P.K. Sharma (Organising Secretary), Dr. G.S. Sekhan (Keynote Address) Shri V.K. Khanna, IAS(Chief Guest), Dr George Joseph (President ISRS), Prof, M.G.K. Menon (Guest of Honour), and Shri K.V. Ravindran (Secretary, ISRS)



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Shri. V.K. Khanna, IAS, Chief Guest delivering the Inaugural Address; 2) Dr. G.S. Sekhon delivering the Keynote Address; 3) Prof. M.G.K. Menon delivering the Vikram Sarabhai Memorial Lecture



Dr. Shiv Mohan receiving the award from Prof. M.G.K. Menon

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1996: Remote Sensing for Natural Resources with Special Emphasis on Water Management: Inaugural Function- Seated on dais (L to R)- Dr V.V. Peshwa(Organising Secretary), Dr. V. Gowariker (Vice Chacellor, University of Pune), Dr. K. Kasturirangan, Chairman ISRO & Secretary DOS, Dr. D.P. Rao, President ISRS & Director NRSA, Dr. V. Bhatkar, ED, C-DAC, Prof L. M. Pande, Secretary ISRS. Dr. C.D. Thatte, Emeritus Scientist, CSIR(Chief Guest) is seen delivering the keynote address.



Dr. K Kasturirangan, Chairman ISRO, inaugurating the Exhibition (1996). Along with him are Dr. D.P Rao, Dr. George Joseph and Dr. C.D. Thatte.



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Dr. K. Kasturirangan at the C-DAC Stall (1996)



Indian National Remote Sensing Award in 1996, ISRS Seminar at CDAC, Pune
Dr V. Raghavaswamy receiving the award



Inaugural Function of 1997 Remote Sensing for Natural Resources with Special Emphasis on Infrastructure Development (Seated on dais (L to R): Shri Raghu Venkataraman, Dr. B.L. Deekshatulu, Dr. D.P. Rao, Prof L.M. Pande, Shri M.V. Krishna Rao)



A section of the delegates (1997) National Symposium



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Inaugural of International workshop on application of remote and GIS for sustainable development 1997: On dais (L to R): Dr. S.K. Subramanian, Secretary ISPRS WG VII/2, Dr. D.P. Rao, Chair ISPRS WG VII/2 and President ISRS, Prof. Peter Winkler, Secretary ISPRS Comm. VII, Dr. George Joseph, President ISPRS Comm-1, Shri V.S. Hegde, Secretary ISPRS Working Secretariat WG VII/2



Dr. D.P. Rao, President ISRS and Director NRSA, delivers the inaugural address during National Symposium 1998. Seated from L to R: Prof. L.M. Pande, Prof. S.K. Bhan, Dr. George Joseph and Dr. P.S. Roy

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Inauguration of the Building by Dr. D.P. Rao



Front view of the ISRS Building



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Inaugural function of National Symposium 1999 - Remote Sensing Application for Natural Resources - Retrospective and Perspective



Dr. George Joseph, Former Director, Space Applications Centre and ISRO Distinguish Professor being conferred maiden BHASKARA AWARD by Prof. Satish Dhawan, Member Space Application Commission

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Dr. A.E. Muthunayagam Secretary, Dept. of Ocean Development, being felicitated by
Dr. K. Kasturirangan Chairman ISRO & Secretary DOS



Lamp lighting of during inaugural of National Symposium on "Advances in remote Sensing Technology with Special Emphasis on High Resolution Imagery" at Ahmedabad in the year 2001



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Inaugural of National Symposium 2001



2002: ISPRS & ISRS - Resource and Environmental Monitoring: Dr. K. Kasturirangan, Chairman, ISRO and Chief Guest of the Inaugural Function handing over the ISPRS TC VII Symposium proceedings to Prof. John Trinder, President, ISPRS.



Prof. John Trinder, President, ISPRS inaugurating the Technical Exhibition.



Participants of the workshop



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Plenary Session- A view of the concluding session



1. Inauguration of ISRS 2004
2. Address by Dr. R.R. Navalgund, President ISRS and Director, NRSA
3. Address by Smt. Vasundhara Raje, Chief Minister of Rajasthan
4. Address by Shri G. Madhavan Nair, Chairman ISRO and Secretary, Dept of Space
5. Bhaskara Award being presented to Dr. D.P. Rao



Painting competition organized by Ahmadabad chapter



Report on ISRS Symposium on Resource Management with Special Reference to Geoinformatics and Decentralized Planning and ISPRS TC VII/3 Workshop on Integrated Monitoring Systems, Thiruvananthapuram, 9-12 December, 2003



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Activities of ISRS 27th Annual Convention and National Conference- 2007



Inauguration of National symposium by the Chief Guest Dr. K. Radhakrishnan



Release of Symposium Abstract cum Souvenir volume

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Dr. K. Radhakrishnan receiving ISRS Bhaskara Award



Prof. Sulochana Gadgil delivering Vikram Sarabhai Memorial Lecture



Dr. V. Jayraman, Director, NRSC delivering invited lecture



Inaugural of Abstract volume



Exhibition Inauguration at 'GRID 2010'



AWARDS CEREMONY
Dr. Shailesh Nayak being awarded the BHASKARA AWARD at the hands of Mr. R. Jha



Cultural Programme at Fariyas on 1st December 2010



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ISPRS Session- India & ISPRS



Dr. Pramod Kale delivering Vikram Sarabhai Lecture at 'GRID 2010': National Symposium on GIS and Remote Sensing in Infrastructure Development



Activities of National Symposium on "Empowering Rural India through Space Technology"



Inauguration of Geospatial Exhibition (Space Technology: Single Solution to Multiple Problems)

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National Symposium 2012 on 'Space technology for food and environmental Security'



National Symposium 2013 on "Remote sensing and GIS for environment with special emphasis on marine and coastal dynamics"



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Activities on International Mid-Term Symposium 2015 on Operational Remote Sensing Applications: Opportunities, Progress and Challenges



Release of the Souvenir cum Abstract Volume of the National Symposium 2015 by the dignitaries

Dr. M. Annadurai,
Director, ISAC, ISRO,
Bengaluru addressing the
delegates as Chief Guest
during the inaugural
function



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Sh. Chandhi Prasad Bhatt, Chief Guest along with ISRS Executive members releasing the Souvenir of National Symposium and Annual Conventions - 2016



Sh. Chandhi Prasad Bhatt, Chief Guest inaugurating the Exhibition of National Symposium and Annual Conventions - 2016



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Vikram Sarabhai Memorial Lecture by Sh. A. S. Kiran Kumar arranged by Delhi Chapter in the year 2017



Dr. Jitendra Prasad, Chief Guest inaugurating the 38th ACRS – 2017 held at New Delhi



Sh. A.S. Kiran Kumar inaugurating the exhibition of 38th ACRS – 2017 held at New Delhi



**INDIAN SOCIETY OF REMOTE SENSING
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Experts deliberating during panel discussion of 38th ACRS – 2017 held at New Delhi



The organising team of 38th ACRS – 2017 held at New Delhi



Dr. K. Sivan, the then Secretary DoS & Chairman ISRO delivering the ISRS Vikram Sarabhai Memorial Lecture: India's Space Transportation System



ISPRS TC V Education and Outreach: Geospatial Technology, Pixel to People



ISPRS TC V Education and Outreach: Geospatial Technology, Pixel to People



Conduction of National Symposium 2020 on 'Remote Sensing of environment monitoring and climate change assessment: opportunities and challenges' in online mode for the first time

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Inauguration of renovated ISRS Building by Sh. Shantanu Bhatawdekar,
Scientific Secretary, ISRO on June 28, 2022



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Glimpse of ISRS-ISG Symposium 2022, Hyderabad, Nov 15-17, 2022



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Glimpse of ISRS-ISG Symposium 2022, Hyderabad, Nov 15-17, 2022



Lecture series conducted by Nagpur Chapter

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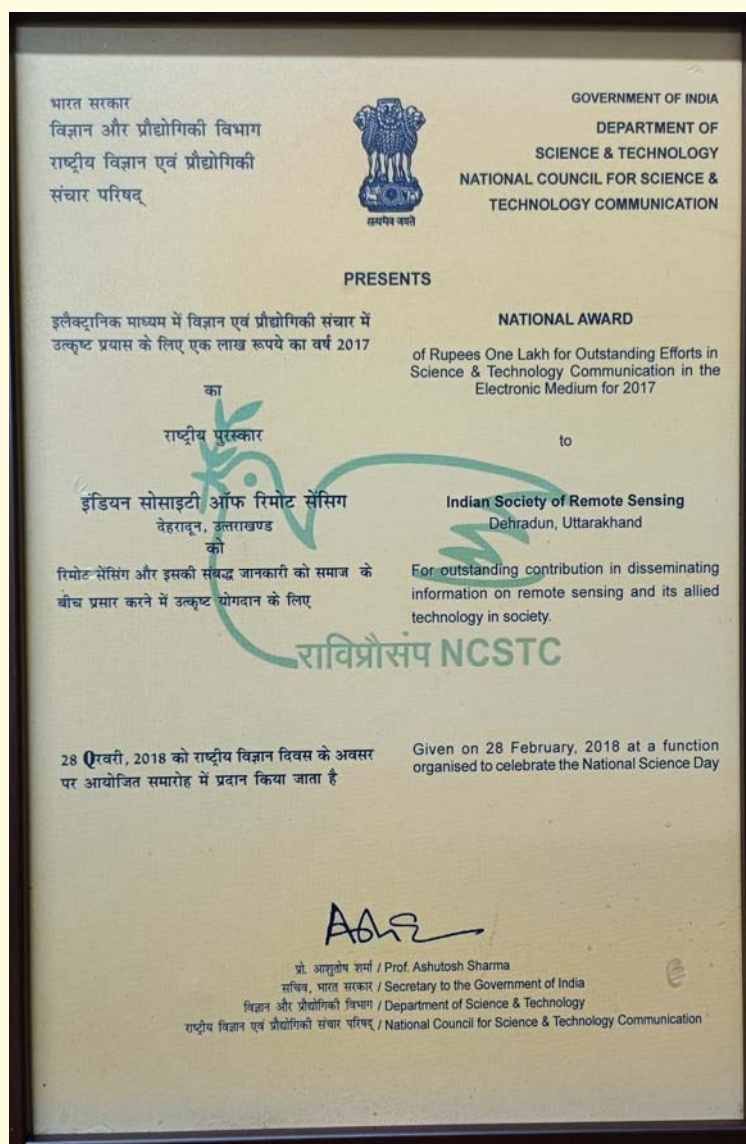
Plastic cleaning drive at Gandhi park by ISRS-DC



Earth Day and National Remote Sensing Day Celebration by ISRS-DC Chapter in the year 2010



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		Secretary

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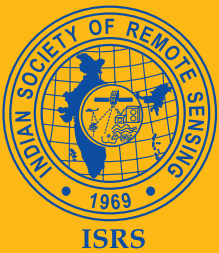
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