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### Important Dates to Remember

Last Date for Abstract Submission	August 31, 2019
Intimation of Acceptance of Abstracts	September 15, 2019
Last Date for Tutorial Applications	October 15, 2019
Intimation of Admission into Tutorials	October 25, 2019
Registration for Commercial Presentations	October 31, 2019
Registration for Industrial Exhibition	October 31, 2019
Submission of Full Paper	October 15, 2019
Last Date for Registration to the Symposium	October 31, 2019
Last Date for Registration to the Tutorial	October 31, 2019
Last Date for Guest House/Hostel booking	October 31, 2019
Pre-Symposium Tutorials	November 18-19, 2019
National Symposium	November 20-22, 2019

### Symposium

[www.isgns2019.in](http://www.isgns2019.in) | [isgns2019@gmail.com](mailto:isgns2019@gmail.com) | +91 364 2308712; +91 364 2308725

### Contact:

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### National Symposium on

## Innovations in Geospatial Technology for Sustainable Development with special emphasis on NER



and

ANNUAL CONVENTIONS

of

Indian Society of Geomatics (ISG)

&

Indian Society of Remote Sensing (ISRS)



November 20 - 22, 2019

Shillong, Meghalaya

Jointly organised by

Indian Society of Geomatics

&

Indian Society of Remote Sensing



Hosted by

Indian Society of Geomatics, Shillong Chapter (ISG-SC)

Indian Society of Remote Sensing, Shillong Chapter (ISRS-SC)

North Eastern Space Applications Centre (NESAC), Umiam

North Eastern Hill University (NEHU), Shillong

[www.isgns2019.in](http://www.isgns2019.in)



## Background

Over the years, geospatial technology has been making phenomenal impact on its usage in diverse fields related to natural resources management, sustainable development, disaster management, environmental applications and more recently in Good-governance and becoming an integral part of various key programmes of the Government of India. Developments in the space based communication, navigation & earth observation technology both at international as well as national level have further accelerated its usage as well as increased the scope of its utilisation in almost all possible applications catering to the human needs, protection of the environment and in exploring the outer space. A large amount of Earth Observation data along with in-situ (spatial as well nonspatial data) is being generated, necessitating the need for advanced geospatial data processing tools and techniques to be developed. It is essential to develop tools and techniques for big data analytics (data cube, data mining) as the data volume is expected to increase further. Advances in Web GIS tools and techniques are also required for making timely dissemination of the value added products to various users and public at large.

North Eastern Region (NER) of India comprising the states of Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Tripura and Sikkim has an area of 2.62 lakh km<sup>2</sup> with a population of 4.5 million. Due to its unique topographic, physiographic and diverse socio-economic characteristics, it has been a challenging region for developmental activities. Geospatial technology can provide critical inputs for accelerated growth of the region. The outcome of the seminar is expected to bring out recommendations/ resolutions that will help in expediting the developmental planning of the region.

The Symposium shall focus on recent advancements made in the satellite payloads, data processing techniques, Web GIS, Mobile App., geospatial technology and applications in various key areas defined under different key programmes of the Government of India.

The Indian Society of Geomatics (ISG) and the Indian Society of Remote Sensing (ISRS), the two premier professional societies dedicated to promotion and dissemination of GIS & RS in India, conduct annual conventions and joint national symposiums in tandem providing excellent opportunities to the scientists, teachers and students for presenting their research findings, updating their knowledge base and interacting with experts and peers. Continuing this rich tradition, a national symposium on “Innovations in Geospatial Technology for sustainable development with special emphasis on NER”, is being organized by ISG and ISRS in the city of Shillong (Meghalaya) during November 20-22, 2019. This event is jointly hosted by North Eastern Space Applications Centre, North Eastern Hill University, ISG-Shillong Chapter and ISRS-Shillong Chapter and an enthusiastic participation is expected.

## Major Themes

The main theme for National Symposium is “Innovations in Geospatial Technology for sustainable development with special emphasis on NER” covering following sub themes:

- Innovations and advances in Imaging Technologies and their data processing (UAV, LiDAR, SAR, Hyperspectral)
- Advancement in sensor technologies, NavIC and GNSS
- Photogrammetry, 3-D Mapping, LiDAR, Virtual GIS
- Big data Analytics, Data Mining, Cloud and Internet of Things (IoT)
- Web & Location based Services (Tele-Geomatics, Mobile GIS)
- Spatial Data Infrastructure and Decision Support Systems
- Physical Infrastructure Dev. and Planning (Smart Cities)
- Sustainable Land Management and Infrastructure Dev.
- Agriculture/Horticulture/Water Resources Management
- Forestry, Environment & Ecosystem Management
- Early signals of Climate Change and Mitigation Measures
- Disaster Management, Weather Forecasting
- Geospatial Technology for Renewable Energy Resources
- Geoscience Applications
- Health GIS, Skill Development and Livelihood

- Large scale mapping and e-governance
- Location based services
- Innovations and advances in Geomatics/Geoinformatics
- UAV photogrammetry / remote sensing technology and applications

## Venue

**North Eastern Space Applications Centre  
Umiam, Ri Bhoi 793103, Meghalaya  
&  
North Eastern Hill University, Shillong 793022 Meghalaya**

## Call for Paper & Abstract Submission

The original unpublished research papers, from India and abroad, covering one or more sub-themes are invited for presentation. Authors may submit Extended Abstracts within 750 – 900 words in the prescribed format online (limiting to two pages) through the symposium website **www.isgns2019.in**. The last date for abstract submission is **August 31, 2019**. Abstract Volume and Proceedings of the Symposium shall be brought out in digital form.

## Best Paper/Poster Awards

The best paper awards in student category as well as in general category will be given to the selected papers presented in Oral / Poster categories.

## Pre-Symposium Tutorials

There will be four pre-symposium tutorials during November 18-19, 2019 for training young professionals and students on the following themes:

**Theme 1:** UAV Remote Sensing– Acquisition, processing and derivatives  
*Coordinator:* Shri Victor Saikhom, NESAC, Umiam

**Theme 2:** SAR data Processing and Applications  
*Coordinator:* Shri C. Patnaik, SAC, Ahmedabad

**Theme 3:** Artificial Intelligence (AI) and Machine Learning (ML) for Remote Sensing Data Analysis  
*Coordinator:* Dr. Dibyajyoti Chutia, NESAC, Umiam

**Theme 4:** Hyperspectral Remote Sensing  
*Coordinator:* Dr. (Ms) Jonali Goswami, NESAC, Umiam

Interested participants may submit their applications online at the symposium website (**www.isgns2019.in**) OR through email request at **isgnsshillong@gmail.com** on or before November 01, 2019. The admission in tutorials is based on merit and first-cum-first serve basis, as only 30 candidates can be taken into each tutorial. Hence, participants are advised for early registration. Details regarding the venue will be available on **www.isgns2019.in**. It is to be noted that operating language of the conference and tutorials shall be English.

## Registration fee

	<b>Early bird (Upto Oct 15, 2019)</b>	<b>After Oct 15, 2019</b>
<i>ISG/ISRS members</i>	₹ 4,000	₹ 4,500
<i>Non-members</i>	₹ 5,000	₹ 5,500
<i>Foreign participants</i>	\$ 150	\$ 200
<i>Students (Members)</i>	₹ 1,000	₹ 1,500
<i>Students (Non-Members)</i>	₹ 1,500	₹ 2,000
<i>Accompanying persons</i>	₹ 1,000	₹ 1,500
<i>Pre-symposium Tutorials</i>	₹ 1,000	₹ 1,500

Participants interested to register for both, pre-symposium tutorial and symposium are entitled for Rs. 500/- discount on the gross registration fees, if paid for both events together. Bonafide students making oral/poster presentation in the Symposium will be considered for free life membership of the ISG. Interested students may download the membership form (**www.isgindia.org**) and submit the duly filled form at registration desk with certified copy of their educational qualification certificate. Registration fees cover symposium kit (souvenir/proceedings) and working lunches. Accommodation shall be arranged in Hotels and available Guest houses on payment basis. Follow website (**www.isgns2019.in**) for more details.

## Payment

All payments towards the registration fee / exhibition charges / company presentation shall be remitted through online bank transfer or demand draft in favour of ISG National Symposium 2019 payable at Umiam, along with the duly filled registration form. The registration fees may be remitted online through direct bank transfer to Current Account **ISG National Symposium 2019** number: **38547155305** of **State Bank of India, Umiam Branch, (IFSC: SBIN0002010)**. Please send a copy of the bank receipt by email to **isgnsshillong2019@gmail.com** along with full details of remitter to the Organizing Secretary. In absence of online remittance option, registration fees may also be sent by Registered Post/ Speed Post (no courier) through bank draft drawn in favour of **ISG National Symposium 2019** payable at **Umiam/Shillong**.

## Invitation for Exhibition/Display

An exhibition of products/services from various manufactures / organizations will be held at Symposium venue. The exhibition envisaged to provide a forum for interaction between participants and service organizations. Interested participants can book multiple units (each 3x3m space) @ Rs. 80,000/- per unit. Or @ Rs. 1,50,000/- per two units. For details, please visit **www.isgns2019.in**.

## Invitation to Sponsors

Invitation is extended to sponsors from Government and Non-government Departments/ Institutes/Organisations/Companies for sponsoring the National Symposium under four categories – **Diamond Sponsor@ Rs 10 lakhs, Platinum Sponsor@ Rs 5 lakhs, Gold Sponsor@ Rs 3 lakhs and Silver Sponsor@ Rs 2 lakhs**. The names and logos of all sponsors will be prominently displayed on the Souvenir, website and at the symposium venue. selected sponsors will be given opportunity for business presentation during the Symposium. For other details kindly visit the symposium website.

## Post-Symposium Tour (Cherrapunjee / Dawki / Mawlynnong)

A post-symposium one-day excursion tour to Cherrapunjee is planned to be organised if sufficient number of interested delegates register for the tour. Visit to other interesting places like Mawlynnong, Dawki, Krang Suri Water falls etc. may also be planned. Details will be made available on the Symposium website.

## About Shillong

Shillong is a beautiful hill station and capital of the state of Meghalaya, known as the Scotland of East because of its serene and picturesque landscape. The city is well connected by road and air. Distance to Shillong airport is about 25 km, and to Guwahati airport is about 125 km. Guwahati railway station is at a distance of about 100 km from the city. It's a major tourist attraction in NER with a variety of attractions for the visitors such as the manicured gardens at Lady Hydari Park, Walking trails of Ward's Lake, the Don Bosco Centre for Indigenous Cultures features displays on the region's native people, beautiful waterfalls include the Elephant Falls, forested Shillong Peak offering city views, History old golf course, Butterfly Museum etc. Cherrapunjee, the wettest place on the planet earth is just a two hours drive from the city, same is the distance for the Mawlynnong, the Asia's cleanest Village. Visit to Dawki for a boating in the crystal clear Umngot river or a leisure time at picturesque Krang Suri waterfall is memorable experience for the visitors.

Winter will just set in month of November in Shillong with temperature varying between 10°C to 25°C and relative humidity ranging from 40 to 90%, requiring warm clothes to carry.