

THE OFFICIAL NEWSLETTER OF THE ISPRS STUDENT CONSORTIUM

# SPECTRUM

SPECIAL ISSUE | AUGUST 2022

# ISPRS CONGRESS

**ISPRS SC MILESTONES**  
**The Technical Commissions**  
Message from **Dr. Charles Toth**

*Messages from the Outgoing  
and Incoming Board Members*



SPECIAL ISSUE

# CONTENTS

## 03 | BACKSIGHT

- Message from Dr. Charles Toth, 2nd Vice President, ISPRS 2016-2022
- Messages from the ISPRS SC Board Members 2016-2022

## 06 | SPOTLIGHTS

- ISPRS SC Milestones
- The Technical Commissions

## 14 | FORESIGHT

- Messages from the Incoming ISPRS SC Board Members 2022-2026

## 16 | OPPORTUNITIES

## 17 | IN THE HORIZON

**JOIN** the ISPRS Student Consortium today!  
the SPECTRUM Team!

Franz Raymond **BALA**  
Sandra **PULMANO**  
**DESIGN TEAM**

Andre John **OBIDOS**  
**PROOF READER**  
Charmaine **CRUZ**  
**EDITOR-IN-CHIEF**

We are constantly in search for passionate volunteers to be part of the ISPRS-SC Newsletter team. If you are a student or a young professional (ages 20–35 years old), willing to lend your time and skills with the passion to tell stories, share knowledge and experiences, then join us as a CONTRIBUTOR to the Spectrum.

Have a passion for design, layouts and infographic?  
Be one of the volunteers of our CREATIVE DESIGN TEAM  
and help us tell stories through pictures and images.

Take the opportunity to work with an international array of experts to bring the latest stories and developments in the field of Remote Sensing, Geomatics and Photogrammetry.

Click [here](#) to register as a Volunteer today!

Or you can email us at [sc@isprs.org](mailto:sc@isprs.org)

**ENGAGE WITH OUR GLOBAL NETWORK OF EXPERTS AND BE EMPOWERED**

Follow us on:  [groups/isprssc](https://www.facebook.com/groups/isprssc)  [@ISPRS\\_SC](https://twitter.com/ISPRS_SC)  [@ISPRSSC](https://www.instagram.com/ISPRSSC)



ISPRS, similarly to sister societies considers the mentoring of the next generation of our profession as one of its most important long-term objectives. Getting students and young professionals involved at an early age can help them develop lasting identification to the geospatial science and engineering field, and in addition, it provides them with opportunities to develop leadership skills early on. The ISPRS SC was created less than two decades ago and has grown into an effective organization within the ISPRS community at large. In fact, the success of the SC measured in a variety of activities, such as organizing Summer Schools, increasing membership, producing a very popular SC Newsletter, etc., prompted the realignment of SC in the ISPRS organization structure in the 2016–2022 Congress period. Combined with the creation of new Statutes in 2018, the SC is now directly linked to the Council and helped by an Advisor. All these developments are expected to further broaden the scope and opportunities as well as advance SC activities.

Needless to say, that the leadership team of 2016–2022 has done a tremendous job to restructure and make SC more attractive to students by offering value and opportunity to grow their professional status and network. In particular, Sheryl Rose Reyes has deserved tremendous credit for so effectively leading the SC and being so forward thinking by mentoring the next SC Board well ahead to make the transition so smooth and keep the inertia moving forward.

Representing the entire ISPRS Council, I would like to express our deepest gratitude toward the outgoing Board and wish them similar success in their fledgling career, and of course, we hope that they will be similarly active in ISPRS in the coming years too.



**DR. CHARLES TOTH**

2nd Vice President  
ISPRS 2016-2022

# FROM THE ISPRS SC BOARD MEMBERS 2016-2022

As our term in the ISPRS SC Board of Directors comes to end, I would like to express my deepest gratitude to everyone, especially to my fellow board members, who believed in the Consortium's mission and vision as well as our core values. Thank you for standing up with us and for supporting the future leaders in our profession. We owe our achievements to many people within and outside ISPRS who worked with us and inspired us to be a better organization focusing on building a more collaborative scientific community. The last six years passed by so quickly and I would also like to express my deepest appreciation to the members of the ISPRS SC, who continued to participate and engage actively in our activities. We have learned so much, both on the personal and professional levels. Some of the greatest people we meet are often the humblest and most willing to help. My experience in the Consortium will always make me remember that there are people out there who believe in the same things I believe in and in the purpose of serving others. The less we think of ourselves and more of others, leads us to infinite possibilities of what we can do for one another.

Thank you.



**SHERYL ROSE REYES**  
President

I was introduced to ISPRS-SC during the summer school in Addis Ababa, Ethiopia in 2013, and I became very interested in its activities. In 2016, I applied for a position on the ISPRS-SC Board which I got. Since then, I have worked with remarkable individuals with different backgrounds delivering on different tasks - the highlight of my tenure as a board member. Attending summer schools allowed me not only to experience other cultures, but also to interact with remarkable scientists and students doing photogrammetry and remote sensing. The fun activities during the student nights remain fresh in my mind. I leave ISPRS-SC transformed, capable of working with people from different cultures, of organising student events at an international level, and of communicating better. I have learned to be responsible for actions and decisions I made as these affected other board members and the ISPRS-SC as a whole, as well as how to embrace new challenges.

I thank all the members of ISPRS-SC and ISPRS community for their support during our tenure, without which much would not have been achieved. And lastly, my fellow board members, it has been an honour to serve with you. Thank you. Mwebale Nnyo! Danke schon. Asante Sana. Gracias. Merci.



**CHARLES JJUUKO**  
Vice President

It's been three years since I started serving as the Newsletter Editor-in-Chief of the ISPRS SC. During this period, we have published 11 Newsletter issues. (You can find these Newsletters on the ISPRS SC website). But I would say that none of this would be possible without the outstanding contributions from the authors and the dedication of our volunteers in the Newsletter team. A special mention to Andre, Sandra, Vince, and Ami, for sharing their talents and time to complete every Newsletter issue.

I would like to take this opportunity to thank the ISPRS SC and the ISPRS community for giving me this opportunity to serve the Consortium. It has been a privilege to be a part of the ISPRS SC Board, and I have learned so much from this experience.

Also, my sincere gratitude to all the members of the ISPRS SC and readers of SpeCtrum. Your support has given us encouragement and motivation to fulfill our duties. Please continue to show your support to the next Board of Directors. Thank you.



**CHARMAINE CRUZ**  
Newsletter Editor-in-Chief

In the few years that I have been able to serve as a board member of the SC, I have met and worked (both physically and virtually) with the most brilliant and diverse team! We started our work with many aspirations. And as we pushed for changes and improvements in the way we can serve the community, we encountered many challenges. I assure you that it will be the same for any other incoming generations of SC board members, students and volunteers. I share with you a simple lesson that I learned from our time: Don't give up! Many people in the community are willing to help and are generous to give support and mentorship, but you will need to learn to communicate and ask for help. Speak your mind - but always with kindness and respect. It's a great leadership skill and you will find it valuable in any career.

I pray that the incoming ISPRS-SC board members may find their time serving the community worthwhile. I urge the rest of the SC members to give your support by continuously engaging in the SC-led events and activities - and turn colleagues into friends along the way. Cheers!

**ANGELICA MONZON - JAOJOCO**

Newsletter Editor-in-Chief (2016-2018)



I have been actively working with the ISPRS-SC team for the last 6 years as the social media coordinator. During this period, we increased the visibility of the ISPRS SC on social media by posting and sharing the updates in terms of summer school, ISPRS SC Newsletter, webinars, and free remote sensing tutorials. We also tried to create a platform on social media to strengthen the link between ISPRS and SC by communicating with each other. During this period, we have increased the number of members in ISPRS SC through new initiatives such as webinars as well as the new design of ISPRS SC Newsletter. Besides all this hard work, we gained the fantastic ability to work in an international team for several purposes in terms of dissemination of photogrammetry, remote sensing, and spatial information sciences. Through the ISPRS SC, I met lots of friends and expanded my academic network. All in all, it was a great experience from an academic as well as a personal perspective for me to serve as the social media coordinator for the ISPRS SC. I wish all the best for the incoming Board of Directors of the ISPRS SC.

**MUSTAFA USTUNER**

Social Media Administrator



These last 3 years with this team have been most wonderful. In 2019, I saw a post about attracting new members to the ISPRS SC team. Having learned more about this consortium and its activities, I decided to submit my application. In May I've been honored to be on board of the directors. Soon afterward, I started my activities as a web administrator. Over the next years, new horizons, new knowledge, and many new acquaintances awaited me. Thanks to this society, I managed not only to gain new knowledge and experience in web administration but also to get invaluable work experience at the international level as well as expand my networking. The most memorable and richest period and best impact affected on my life was the organization of ISPRS SC virtual rooms during the pandemic situation. I was fascinated, that being here at one end of the planet I had a chance to see and talk with experts, and professors from all over the world, especially the members of the White Elephant Club. I express my sincere gratitude to all members of our team and the ISPRS for the cooperation and for the opportunities. My role in this society was entirely virtual, but despite this, I got a lot of experience, which also affected positively my early career. I highly appreciate it. Congratulations once again to new members with an election and wish them success! All the best to society on the organization of the long-awaited in-person ISPRS Congress!

*P.S. Even though I couldn't be there, my heart is with you all. I hope and believe to see everyone in person in the near future.*

**SONA GULIYEVA**

Web Administrator



## 2017

**Transition**

- Initial ISPRS SC Work Plan
- Launch of the new ISPRS SC logo

**Coordination**

- The ISPRS SC Chair presented for the first time in the ISPRS Council meeting during the Geospatial Week 2017 in Wuhan, China
- The ISPRS SC board members attended the 38th Asian Conference on Remote Sensing (ACRS 2017) in New Delhi, India and the following summer school in Dehradun, India to establish communication with the Technical Commission V and to provide additional support for the student activities during the conference

**Newsletter**

- A total of 5 issues were published since the beginning of the term, 2 issues and 3 issues for volumes 11 and 12, respectively
- Repackaging of the Newsletter to **SpeCtrum** – indicative of the electromagnetic spectrum, which is one of the principles in remote sensing, and at the same time, containing the initials S and C, to represent the Student Consortium

**Launch of the ISPRS SC Website**

- The website was in operation starting March 28, 2017; the layout was proposed by the ISPRS SC Chair, the design of the ISPRS banner and the logos were created by the Design Team, and the implementation was made by Mr. Markus English

**Summer Schools**

- Guidelines
- 16th ISPRS SC and WG V/5 Summer School: Lages, Brazil
- 17th ISPRS SC, WG V/3 and WG V/5 Summer School: Dehradun, India
- 18th ISPRS SC and WG V/5 Summer School: Santiago, Chile

## 2018

**Newsletter**

- A total of 5 issues were published this year for the SpeCtrum, the official Newsletter of the ISPRS SC

**Website and Webinar**

- The Webinar Series kicked off with the first webinar on September 14 with Nicholas Clinton delivering a lecture on “An Introduction to Google Earth Engine.”

**Summer Schools**

- ISPRS Technical Commission III Midterm Symposium Summer School – Beijing, China
- 39th Asian Conference on Remote Sensing (ACRS 2018)
- IEEE GRSS YP and ISPRS SC Summer School

**ISPRS Education and Capacity Building Initiatives 2019**

- The ISPRS Student Consortium (ISPRS SC), in collaboration with the Geo-informatics and Space Technology Development Agency (GISTDA) and the ASEAN Research and Training Center for Space Technology and Applications (ARTSA), organized *MOTIVATE Learning: Making Opportunities to Initiate Valuable Alliance through Experiential Learning* from August 6 – 20, 2018 in Space Krenovation Park, Chon Buri, Thailand.

**Meetings**

- ISPRS Council Meeting and TC V Midterm Symposium: The Student Session hosted three student presenters, namely: *Measuring Growth Conditions of Salad Plants using Sensors: A High School Project*, presented by Laxmi Thapa from University of Munster/New University of Lisbon; *Comparative Study of Tree Counting Algorithms in Dense and Sparse Vegetative Regions* presented by Sameer Khan from HNB Garhwal University, and; *Design and Development of Trendy Insight Application Software for Location based Social Media Trending* presented by Shibi Kumar from Lovely Professional University.

## 2019

**Summer Schools**

- The ISPRS SC summer school on introduction to SAR Data in Uganda
- Poland
- South Korea
- Brazil

**Geospatial Week 2019**

- On the third night of the Geospatial Week 2019, the *ISPRS Students and Young Professionals Night* was organized by the ISPRS SC to gather students and young professionals attending the Geospatial Week 2019 for an informal meet-up held in the Ideate Room, DesignLab at the University of Twente. Over 30 participants joined the event by the participants from Brazil, Germany, China Taipei, Canada, Vietnam, The Netherlands, South Korea, and India.

**Statutes and Awards**

- The new Statutes were approved and effective as of October 2019. The changes were carried out immediately by the ISPRS SC board.
- Two new awards were introduced for 2020 under the ISPRS SC: (1) The Service Award and (2) The Excellence Award.



# MILESTONES

2020



## Coordination

- The ISPRS SC was also tapped as a collaborator for the monthly GeoMixer event, which kicked off in January 2021. The event would be organized by the Ladies of Landsat, Sisters of SAR, ASPRS Student Advisory Council, IEEE-GRSS Mato Grosso do Sul Brazil Student Chapter and the Asian Association on Remote Sensing.

## Newsletter

- The ISPRS SC Board of Directors prepared a special Newsletter issue focusing on the roles of Geospatial Information during the COVID-19 pandemic.

## Membership Page

- The Individual Membership registration page, an updated registration with the addition of the important information from our members, was created on the website this year. In addition to this, all received applications were reviewed and Individual Member certificates were issued for all approved applications.

## Webinar Series and Virtual Rooms

- Two webinars were hosted under the topics of deep learning and computer vision.
- The *Virtual Rooms* activity featured five different rooms depending on the focus of the discussion – *The Wisdom from the White Elephants*, *In Memory of Schrodinger's Cat*, *Bring your own Sunshine!*, *Writer's Block*, and *The ISPRS SC Super Friends*.

## Summer Schools

- Brazil Summer School: The 6th edition of the IEEE-GRSS Young Professionals and ISPRS Student Consortium Brazil Summer School was converted to a virtual event with the theme "Emerging Trends in Remote Sensing Science and Applied Machine Learning."

## Student Chapters

- The document related to the Student Chapters was finalized and sent to the ISPRS 2nd Vice President for review and approval.

## ISPRS Congress

- The ISPRS Virtual Event was held from August 31 to September 2, 2020 with a total of 309 presentations.
- The ISPRS Student Consortium's Youth Forum was hosted as a joint session with the Technical Commission V – Education and Outreach September 1. The Youth Forum contributed a total 12 papers, three for the ISPRS Annals and nine for the ISPRS Archives for this edition of the ISPRS Congress.

## Publications

- The former and present members of the ISPRS SC Board of Directors also published a paper in the ISPRS Annals, entitled, "The ISPRS Student Consortium: Sustaining Relevance and Creating Shared Visions for the Youth."

## Transition

- The ISPRS SC Board of Directors, given the extended term, continues to work on activities that can be promoted to foster meaningful connections among our members and to further the advancement of their personal and professional skills. The *Leadership and Service Mentoring Programme* has been launched.



2021



## ISPRS Congress

- Joined Technical Commission V in the joint session of the Education and Outreach track in 2021, which included the presentations for the Youth Forum.
- The GeoMixer was hosted in the virtual edition of the ISPRS Congress in 2021.
- The Google Earth Engine Singapore (EarthEngine@SG), a virtual meetup, that took place on 13th September 2021, as part of the Singapore Geospatial Festival 2021.

## Publications

- *Creative Strategies in Navigating the New Normal: Advancing the Contributions of the Isprs Student Consortium as AN International Organization* by S. R. Reyes, C. Cruz, M. Üstüner, C. Jjuuko, and S. Guliyeva was published in the ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences.

2022



## ISPRS Education and Capacity Building

- The ISPRS SC President Sheryl Rose Reyes joined Working Groups from Technical Commissions IV and V for implementing the Education and Capacity Building Initiative entitled, "Capacity Building for GIS-based SDG Indicator Analysis with Global High-resolution Land Cover Datasets."

## Nominations and Elections

- The five mentees from the Leadership and Service Mentoring Programme were nominated to the Board of Directors for the term 2022 – 2026. Additional nominations were received during the call in February 2022 and two more qualified candidates were identified for the open positions. The elected Board of Directors for the term 2022 - 2026:
  - President: Laxmi Thapa (Nepal)
  - Vice President: Nicolas Pucino (Australia)
  - Newsletter Editor-in-Chief: Sunni Kushwaha (India)
  - Social Media Administrator: Miguel Luis Lagahit (Philippines)
  - Website Administrator: Yogender Yadav (India)
  - Board Member: Chukwuma Okolie (Nigeria)

The  
Technical  
Commissions ▶▶

## Commission I

# SENSOR SYSTEMS

Germany / Brazil

ISPRS Technical Commission I (Sensors Systems) is concerned with the design, construction, characterization, calibration; and use of imaging and non-imaging sensors, sensor systems; and sensor networks for photogrammetry, remote sensing, and spatial information science. Currently chaired by Germany and Brazil, TC I consists of 10 WGs and 2 inter-commission WGs. The Commission organized a Midterm symposium - "Innovative Sensing - from sensors to methods and applications" at Karlsruhe, Germany on 9-12 October, 2018 which also had several tutorials on UAV, deep learning, LiDAR, and Photogrammetry along with special keynote sessions. Many good research publications were submitted, with 22 full paper submissions accepted for publication in the ISPRS Annals and 70 submissions accepted for publication in the International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences. The commission also contributed to the Special Session "Spectral sensing with UAVs - from sensors to applications" from UAV-g in Bonn. TC - I was also involved in organizing the 10th International Symposium on Mobile Mapping Technology (MMT 2017) in Cairo, Egypt, the Workshop on the Verification and Validation of Electro-Optical Sensors for Aerial & Space Imaging (related to benchmarks), and the WS and Tutorials during 2017. The commission also contributed and reviewed for Geospatial week 2017, HRIGI 2017, and EuroCOW 2019 workshop along with other events. The commission also established a hyperspectral benchmark data set from airborne HySPEX VNIR/SWIR camera for target detection, spectral unmixing, classification, and data simulation. Also, the commission distributed ZY3 satellite images of several countries for calibration, validation, DEM generation, and stereo mapping as reference and benchmarking data.

## Commission II

# PHOTOGRAMMETRY

### Italy / Japan

ISPRS Technical Commission II (TCII), entrusted to ordinary members of Italy and Japan for the four-year term between congresses, consists of 10 working groups and is focused on photogrammetric applications in the fields of mapping, industry, heritage, space, underwater, and others. Among the major activities completed during its tenureship, TCII conducted Photogrammetric 3D Reconstruction for Geo-Applications (PhotoGA) 2017 in Wuhan University in conjunction with the ISPRS Geospatial Week 2017. In 2018, the “Towards Photogrammetry 2020” symposium was conducted in Italy by TCII. It focused, at various scales, on geometric, radiometric, and multi-temporal aspects of the image- and range-based 3D surveying and modelling. An international conference, “UAV in Geomatics”, was conducted in Germany by WGII/1 of TCII. WGII/2 of TCII introduced a new Benchmark on Semantic Segmentation of High-Resolution 3D Point Clouds and Meshes (H3D). H3D aims to provide state-of-the-art data sets to the community which can be used by interested researchers to test their methods and algorithms on semantic segmentation for geospatial applications. It proposed a benchmark consisting of highly dense LiDAR point clouds captured at three different epochs. The respective point clouds are manually labeled into at least 11 classes and are used to derive labeled textured 3D meshes as an alternative representation.

WGII/3 of TCII Jointly organized “Laser Scanning 2017” as part of Geospatial Week in Wuhan, China, and “Laser Scanning 2019” as part of Geospatial Week in Enschede, Netherlands. It also prepared a workshop on GeoBigData for 2019. It kept an updated list of (large) point cloud data sets. WGII/4 Co-organized the ISPRS Workshop on Semantic Scene Analysis and 3D Reconstruction from Images and Image Sequences (Semantics3D) as part of the Geospatial Week 2019, 10-11 June 2019 in Enschede, The Netherlands. WGII/5 Jointly organized the 2nd Multimodal Learning and Applications Workshop with computer vision and pattern recognition conference in 16-17 June 2019 in Long Beach, California. WGII/6 conducted workshops EarthVision at CVPR 2020 and 2019, June 17, Long Beach, USA, and Earth Vision Workshop at CVPR 2017, July 21, Honolulu (Hawaii, USA). WGII/9 organized the 2nd International Workshop ISPRS/CIPA workshop UNDERWATER 3D RECORDING & MODELING. WGII/9 organized 3D-Tage / Oldenburg 3D Conference. WG II/10 jointly organized International Workshop “Photogrammetric techniques for video surveillance, biometrics, and biomedicine” with WGII/5 on May 15 in Russia. WG II/10 also organized the 1st Workshop on “Frontiers in Spectral imaging and 3D Technologies for Geospatial Solutions” - ISPRS SPEC3D. WG II/10 also Conducted ISPRS Summer School on Close Range Sensing Techniques in Alpine Terrain.

## Commission III REMOTE SENSING China / Canada

The ISPRS Technical Commission III (TC III) on Remote Sensing has been active in promoting and supporting innovations in the field of remote sensing. It consists of 10 working groups along with 6 inter-commission working groups. The TC III organized 24 workshops in 10 countries during from 2016-2019. The Commission had its mid-term symposium with the title “Developments, Technologies, and Applications in Remote Sensing” organized in Beijing, China on 7-10, May, 2018. With a total of 763 participants from 52 countries and regions, the symposium had the most attendees of any ISPRS Symposia. There were 510 full papers accepted and published, with 467 in the ISPRS Archives and 43 in the ISPRS Annals, during this event. Another noteworthy event is the International Workshop on Planetary Remote Sensing and Mapping (PRSM) hosted during Geospatial Week (GSW) in June 2019, at the University of Twente, Netherland. This workshop brought leading scientists and researchers together to present their latest research from the recent missions exploring the Moon, Mars, and other celestial bodies. 16 articles presented in this event were published in the ISPRS Archives. This commission also contributed to the development of new planetary mapping techniques that aided in the Chinese Chang’e-4 lunar landing mission. Likewise, TC III along with Beijing University of Civil Engineering and Architecture (BUCEA) and the ISPRS SC hosted a 5-day (19-23 July 2021) Virtual Summer School on SmartCity. This event ended successfully with a total of twelve talks on a spectrum of topics and 9 sessions engaging 330 participants from around the world. Additionally, TC III is involved in making various data public, with the most popular being Hyperion sensor (EO-1, USGS) and HyRANK Hyperspectral Satellite Dataset I. It is also working on developing an online spectral library for pigments of paintings. Along with these notable accomplishments, TC III released a book titled “Planetary Remote Sensing and Mapping” as a part of the ISPRS Book Series. Four special issues were published in various renowned journals, namely Remote Sensing, Applied Sciences, and the Journal of Environmental Monitoring and Assessment. This Commission is committed to scientific advancement and has outperformed the other ISPRS Technical Commissions by securing a total of 4 Scientific Initiatives Projects (SIP) during the 2016-2021 period; two SIP’s in 2021 and one in each of the years 2019 and 2017.

## Commission IV

# Spatial Information Science

### The Netherlands / Canada

ISPRS Commission IV (Spatial Information Science) aims to coordinate research activities and development in the field of spatial information science including modelling, management, analysis, visualization, and simulation of data through its 10 working groups (WGs). The commission organized the ISPRS TC IV Symposium, "3D Spatial Information Science - The Engine of Change" in Delft, Netherlands on October 1-5, 2018 together with International Workshop on 3D Cadastres, 3D Geoinfo Conference and Conference on Smart Data and Smart Cities. 130 oral presentations were delivered and 14 posters were displayed at the symposium, while 36 papers were published in the ISPRS Annals and 108 papers were published in the ISPRS Archives. The symposium provided a venue for the communication and dissemination of advancements in the emerging topics of spatial information sciences. The commission was also involved in organizing annual conferences like the 15th 3D Geoinfo conference held virtually on September 2020, the 5th International Conference on Geoinformation Science-Geoadvances 2018, and the ISPRS Conference on Multi-dimensional and Multi-scale spatial data modelling 2018. The commission even organized the 13th edition of the Geoinformation for Disaster Management 2020 (Gi4DM2020) on 20 November- 4 December, 2020 in Sydney, Australia online amid the surge of Covid-19. This event consisted of 22 scientific papers, 4 keynote speeches, panel discussions and tutorials. The commission has been actively engaged in conducting research and even received one ISPRS Education and Capacity Building Initiative award for Capacity Building for High-Resolution Land Cover Inter-comparison and Validation in 2018 and three Scientific Initiatives Awards: ISPRS Benchmark on Indoor Modelling in 2017 and 2019 and GeoBIM benchmark: reference study on software support for open standards of city and building models in 2019. Recently, the commission hosted a technical session during the virtually organized ISPRS Congress 2021, where 24 papers were published in the ISPRS Annals and 56 papers were published in the ISPRS Archives. Considering the current pandemic situation which has limited most to remote work, the commission has been hosting monthly webinars to showcase its ongoing research, activities and achievements.

## Commission V Education and Outreach India

ISPRS Commission V (Education and Outreach) is working with the mission to support, promote, and motivate capacity building initiatives on GIST using open source and innovative methodologies. It also supports youth forums and student consortium activities. Currently chaired by India, the commission is comprised of 8 working groups (WGs) that have successfully conducted various conferences, workshops, special sessions, scientific initiatives, and webinar series and supported summer schools on diverse topics. One event of note was the Mid-term Symposium on Education and Outreach with the theme “Geospatial Technology - Pixel to People” organized jointly by the Indian Society of Remote Sensing (ISRS) and the Indian Space Research Organization. This symposium was held with 445 participants on November, 20-23 2018 at IIRS, India and included 4 pre-symposium tutorials, 4 plenary sessions, 26 technical sessions, 3 special sessions, and 213 papers published in the ISPRS Archives and Annals. Likewise, a 2-day International workshop on ‘Capacity building and Education Outreach in Advanced Geospatial Technologies and Land Management’ and Special Session on ‘BIM Technologies in Urban land management and development using Remote Sensing, Photogrammetry and Laser Scanning data: Managerial, engineering and educational aspects’ was organized by the Land Management Training Center in collaboration with ISPRS TCV / WG 7 and TC IV / WG 6) on 10-11 December, 2019 in Dhulikhel, Nepal. 200 participants from 13 different countries participated in 8 different technical sessions consisting of 54 peer reviewed papers published in the ISPRS Annals and Archives. Dr. Sultan Kocaman from Hecettepe University was invited through the ISPRS Keynote Speaker Programme, and the special session on BIM Technologies by WG 7 was the first of its kind organized in Nepal. WG 7 previously organized the International Forum on Geospatial Solutions for Structural Design, Construction and Maintenance on March 21-23, 2018 and March 27-29, 2019 successfully. TCV/WG6 also conducted many online webinar courses to reach users across the globe; one of their highlighted events is the online webinar on “high temporal resolution for air quality observations from space” organized together with NASA/ARSET and ISRO in September 2018. Additionally, TCV/WG8 conducted tutorials during the 37th Conference on Surveying and Geoinformatics at National Central University, Taiwan in September 2018. Commission V even hosted a technical session on Education and Outreach for the virtually organized ISPRS Congress 2021 where 18 research papers were submitted; out of which 7 were selected for the Archives and 3 for the Annals.



*Laxmi*  
**LAXMI THAPA**  
President

One year of intensive training on how the ISPRS SC functions, together with real experience in handling the virtual events like the webinar & forum were my major takeaways from the leadership and service mentorship initiative.

Now, I look forward to practicing what I learned as I lead the Consortium. Thank you everyone for your valuable votes! Let's join hands together to collaborate, coordinate, motivate, and engage youths in the fields of Geospatial Technologies, Remote Sensing & Photogrammetry, and their advancements.



*Nick*  
**NICOLAS PUCINO**  
Vice President

For me, there is no better place to be than the ISPRS SC. I've always loved ISPRS' scientific rigour, publications and events. However, it wasn't until COVID confined us at home that I met the ISPRS SC during their Virtual Rooms. Since then, I decided I wanted to take part in their mission but, most importantly for me, I really wanted to spread the ISPRS SC presence around the world as I really think many students and young researchers would love to engage but they just don't know how easy it is. Now, I will be the Vice President of the ISPRS SC and, together with the President and the other board members, I am devoted to do just this: Foster scientific rigour and innovation in our fields and expand the reach of the ISPRS SC and ISPRS. Let's go!



*Sunni*  
**S.K.P. KUSHWAHA**  
Newsletter Editor-in-Chief

Hello ISPRS SC Community! First of all I was overwhelmed when I was selected for the ISPRS SC mentorship program. Then, I got to know and work along with all the current board of directors, got good advice and suggestions on how to manage, organise, and effectively make an impact on any event that we organise. Later I am thankful to all the ISPRS SC members who participated in the election voting for the new board of directors. Voila! I got selected for the next term (2022-2026) ISPRS SC board of directors - Newsletter Editor-in-Chief position. Charmaine Cruz, who currently holds the position, is helping me a lot during the transition to learn all the roles and responsibilities swiftly. I am also looking forward to working along with the new board of directors who are equally dedicated, creative, and helpful.

# FROM THE INCOMING ISPRS SC BOARD MEMBERS 2022-2026

I am deeply honored to have been elected as a member of the ISPRS SC Board of Directors for the term 2022-2026. As the team's social media administrator, I aim to boost ISPRS SC's reach to its international members through proactive SNS updates and strive to maintain interaction between members by continuously supporting its various discussion platforms. Quoting Mike DiLeronzo of NHL, "Social Networks aren't about Web sites. They're about experiences." We shall endeavor to provide the full ISPRS SC experience even through virtual means. Looking forward to the years ahead!

**MIGUEL LUIS LAGAHIT**  
Social Media Administrator



My name is Yogender Yadav, and I am currently in the final stage of my master's studies in Geoinformation Science and Earth Observation Science at Faculty ITC, University of Twente, Enschede, Netherlands. My research interests are in the applications of UAV photogrammetry, LiDAR remote sensing, and the integration of multi-sensor datasets in the remote. I am passionate about learning, working on new remote sensing techniques, and challenging myself to make the best out of it. I believe if you work smartly in the right direction, then the world is all yours. Through ISPRS SC, I want to build a network of students and experts for a knowledge and information-sharing platform. Looking forward to the best outcomes.

*Yogender*  
**YOGENDER YADAV**  
Website Administrator



I am excited to be part of a great team, the ISPRS SC Board of Directors. Along with fellow board members, I am committed to the growth and development of our student community. One of our key mandates is to expand the readership and sphere of influence of the ISPRS SC newsletter. We will do this by engaging contributions from students and early-career professionals in Photogrammetry, Remote Sensing and Spatial Information Sciences, and industry partners. I welcome all attendees to the ISPRS Congress 2022 and wish you all a successful deliberation.

*Chukwuma*  
**CHUKWUMA JOHN OKOLIE**  
Board Member



# PostDoc Positions & Job Opportunities

**Postdoctoral Fellow - GeoHUB Project**  
Environmental Systems Laboratory, Central  
European University  
Budapest  
**Deadline:** Open until filled  
[Link](#)

**Postdoc in Remote Sensing**  
KTH Royal Institute of Technology in Stockholm  
Sweden  
**Deadline:** 05 October 2022  
[Link](#)



## OPPORTUNITIES



## UPCOMING EVENTS

**29 Aug  
to  
09 Sep**

**2022 Training Course on Satellite Remote Sensing Technologies and Applications**  
Beijing, China | [Online](#)

**01  
Sep**

**AutoCarto 2022 Ethics in Mapping**  
Esri Campus, Redlands, CA | [Website](#)

**03-09  
Sep**

**SUNRISE (Seashore and UNDERwater documentation of aRchaeological heritage palimpSests and Environment) SUMMER SCHOOL**  
Ragusa, Italy | [Website](#)

**05-07  
Sep**

**SPIE Sensors + Imaging Exhibition**  
Berlin, Germany | [Website](#)

**06-08  
Sep**

**Commercial UAV EXPO 2022**  
Las Vegas, USA | [Website](#)

**11-15  
Sep**

**XXVII FIG Congress**  
Warsaw, Poland | [Website](#)

**13-16  
Sep**

**41st EARSeL Symposium**  
Paphos, Cyprus | [Website](#)

**AUG  
SEP  
OCT  
NOV  
DEC  
2022**

# UPCOMING EVENTS



13-16  
Sep

## 58th Photogrammetric Week, 2022

Stuttgart, Germany | [Website](#)

03-07  
Oct

## The 43rd Asian Conference on Remote Sensing

Ulaanbaatar, Mongolia | [Website](#)

12-14  
Oct

## International Symposium on Applied Geoinformatics

Chania, Crete Greece | [Website](#)

15-19  
Oct

## 6th SMPR and 4th GIREsearch ISPRS Geospatial Conference

Tehran, Iran | [Website](#)

18-20  
Oct

## The 7th International Conference on Smart City Applications

Castelo, Branco | [Website](#)

18-20  
Oct

## International Conference on Advanced Geospatial Science & Technology

Tunis, Tunisia | [Website](#)

19-21  
Oct

## MetroArcaeo 2022: 2022 IMEKO International Conference on Metrology for Archaeology and Cultural Heritage

Rende (Cosenza), Italy | [Website](#)

19-21  
Oct

## 17th 3D GeoInfo Conference

Sydney, Australia | [Website](#)

19-21  
Oct

## "Smart Data, Smart Cities" 2022

Sydney, Australia | [Website](#)

23-27  
Oct

## Opening the Aperture to Innovation: Expanding Our Collective Understanding of a Changing Earth

Denver, CO. USA | [Website](#)

01-04  
Nov

## Gi4DM 2022 & Urban Geoinformatics 2022

Beijing, China | [Website](#)

14-17  
Nov

## GEOINFORMATION WEEK

UTM Johor Bahru, Malaysia | [Website](#)

08 Nov  
to  
01 Dec

## Pacific Islands GIS and Remote Sensing User Conference

Suva, Fiji | [Website](#)

09-11  
Dec

## International Conference on Geomatics Education - Challenges and Prospect

Hong Kong, China | [Website](#)

15-16  
Dec

## LowCost 3D - Sensors, Algorithms, Applications

Würzburg, Germany | [Website](#)



**SPECTRUM**

