

Vol. No. 11 Issue No. 2 | October 2017

SPECTRUM

The Official Newsletter of the ISPRS Student Consortium

THE TECHNICAL COMMISSIONS: AN OVERVIEW

Know the Working Groups under
ISPRS Technical Commission V

Student Activities
at the
ACRS 2017

Important-Focused-
Outstanding-Valuable:
Dr. A Senthil Kumar

Beginnings and Beyond:
Envisioning the ISPRS SC
Through The Younger
Generations

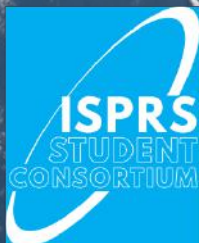


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NEWSLETTER

ISPRS
STUDENT
CONSORTIUM

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Vincent AZUCENA
Amihan MANUEL
Sandra PULMANO
DESIGN TEAM

Daphne Joyce MAZA
PROOF READER

Angelica MONZON
EDITOR-IN-CHIEF



FROM THE BOARD

Dear ISPRS SC Members,

I am very happy for the opportunity to say a few words in behalf of the Working Group V/5 (WG V/5). The ISPRS SC Board Members have set-out many initiatives in the past year which the SpeCtrum is one of the outputs. The WG V/5 try to remain in the shadow and allow the SC to act with youthful passion that characterizes many of their initiatives and activities.

As the WG that supports the ISPRS SC, our role is to ensure continuity and sustainability of these initiatives. At present, the WG consists of people who have been active in the ISPRS SC as former board members: Ayda Akkartal Aktaş, Ivan Detchev, Cemal Özgür Kivilcim and myself. The ISPRS SC adventure can go beyond student activities and last much longer. I encourage students and young professionals to take active part and develop leadership skills together with your technical skills with being part of our team.

In this issue of the SpeCtrum, you will become familiar with some of the key people behind the ISPRS SC who have supported its development and activities. You will also learn more about the Technical Commissions and particularly the Working Groups under the TC V in which the SC is part of. An interview with Dr. Kumar will give you a view on the TC V's mission and interactions with the WG V/5 and SC. Also look at the collection of opportunities for your career development which the team has gathered for your interest and convenience.

Finally, be sure that you check out the news on the 2020 Congress in France. I hope you think about it and plan to go. As always at the Congresses, many events will be organized by ISPRS SC and WGV/5 such as the Youth Forums and technical sessions dedicated to the students and young researchers. I hope to meet you there.

I hope that you will find this issue interesting and you will enjoy reading it.

With best regards!

Krzysztof Stereńczak
Working Group V/5 Chair
2016-2020

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Join the **SPECTRUM** Team!

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!

<https://goo.gl/QcsABN>

Or you can email us at sc@isprs.org

Engage with our global network of experts and **be empowered**

Join the ISPRS Student Consortium today!

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Student Activities at the Asian Conference on Remote Sensing 2017

by Sheryl Rose Reyes

The 38th Asian Conference on Remote Sensing (ACRS 2017) will take place during October 23-27, 2017 at New Delhi, India. ACRS-2017 will represent a major event in the long series of successful ACRS conferences. The main theme of the conference is Space Applications: Touching Human Lives.



ACRS 2017 aspires to bring together students, researchers, scientists, engineers, policy makers, professionals and practitioners from developed and developing countries from and around Asia to share insights into the challenges and opportunities of Remote Sensing and related geospatial technologies in building resiliency and encouraging inclusive economic growth in one, dynamic Asia. It also aims to be a platform for international engagement to ensure that knowledge is generated in partnership with society.

Every year, ACRS organizes the following student activities: WEBCON, Student Session, White Elephant Session and Student Night. In collaboration with the ISPRS Student Consortium, a summer school follows right after the conference.

WEBCON 7, Student Session, Student Night and White Elephant Session

Google Earth and other Internet-based services provide the public easy access to satellite/aerial images and other geographic information of different places around the world. Now our interest is "what comes next?"



In order to promote activities to students and young scientists, the Asian Association on Remote Sensing (AARS) has organized a web contest, or WEBCON. The main objective of the contest is to promote the development of web

materials which may give us a future vision of the web, related to geo-information sciences. Students and young scientists under the age of 35 and have

registered to conference can nominate their entries to WEBCON7.

The first WEBCON was held at the 32nd Asian Conference on Remote Sensing (ACRS 2011) in China Taipei. Following the success of the first event, WEBCON was regularly organized as one of the major student activities in ACRS: WEBCON2 (2012) in Pattaya, Thailand, WEBCON3 (2013) in Bali, Indonesia, WEBCON4 (2014) in Nay Pyi Taw, Myanmar, WEBCON5 (2015) in Quezon City, Philippines, and WEBCON6 (2016) in Colombo, Sri Lanka.



The Student Session is a session dedicated to promoting different universities all across Asia with degree programmes on remote sensing, photogrammetry and other geospatial information sciences. This is a great opportunity for students and young researchers to know more about the research and advancements in the profession in different countries, as well as to meet students and professors in specific fields of expertise. The Student Night is a social event for students to have fun and establish their professional networks. Participants of the conference may join this event.



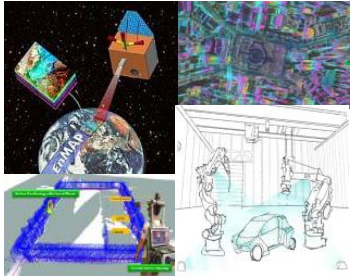
The White Elephant Session provides lectures on research writing. Lecturers come from both the ISPRS White Elephant Club as well as prominent professors from the Asian Association on Remote Sensing (AARS). This is a great opportunity to learn the basics of research proposal writing and how to deliver great presentations.

The Technical Commissions: An Overview

Summarized from the paper "Information from imagery: ISPRS scientific vision and research agenda"
by Angelica Monzon

The ISPRS community has taken on the challenge to address various societal needs for information from imagery. Some of the major challenges include earth system modeling, global change studies, environmental monitoring, sustainable development, disaster management, topographic mapping, cultural heritage, industrial metrology, traffic monitoring, visual navigation, among many others. The scientific research agenda and strategy of the ISPRS community aim to develop technological solutions to these challenges through information from imagery.

To operationalise these strategies, the ISPRS adopted a new structure for the ISPRS Technical Commissions (TCs) in 2015 and started its implementation in 2016.

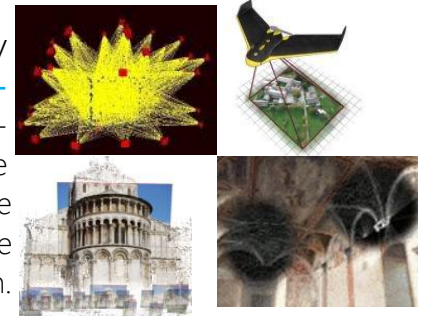


Technical Commission I: Sensor systems

TC 1 focuses with the design, construction, characterisation, calibration and use of imaging sensors, sensor systems and sensor networks for photogrammetry, remote sensing and spatial information science. It explores the different platforms for data acquisition and is in the perfect position to collaborate with the related industrial sector.

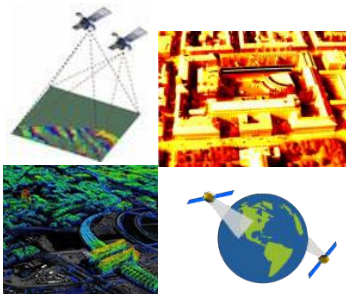
Technical Commission II: Photogrammetry

Commission II deals with the theory and methodology for extracting and analysing spatio-temporal information of objects from terrestrial, aerial and satellite images, image sequences and point clouds. It emphasises accurate and reliable geometric information using the approaches from photogrammetry, image analysis and computer vision.



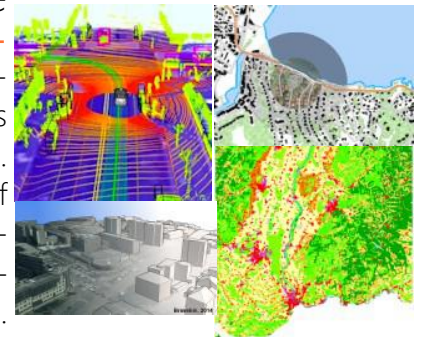
Technical Commission III: Remote Sensing

Commission III is concerned with research, development, investigation and operational use of methods and systems for the analysis of remotely sensed observations of the Earth. Observations from air- and space-borne sensors are analysed together with site-based measurements.



Technical Commission IV: Spatial Information Science

Commission IV deals with theoretical and practical aspects of modelling, management, analysis, dissemination and visualisation of geospatial data. It covers areas including interoperability, web services and geospatial data infrastructure. Additionally, it puts particular interest in the applications and operational use of spatio-temporal information in areas such as transportation, environmental monitoring, disaster management, mobility, 3D city models, Building Information Systems (BIM), social media, location-based services and health.



Technical Commission V: Education and Outreach

TC V is the only non-technical commission but is equally significant as the other commissions because the sustainability of the expertise and the strength of the professional network of the ISPRS community



IFOV: Important-Focused-Outstanding-Valuable



Dr. A Senthil Kumar ISPRS Technical Commission V President

e-mail: senthil@iirs.gov.in

Questions prepared by Angelica Monzon and Sheryl Rose Reyes

Can you please share with us your thoughts on becoming the president of the ISPRS Technical Commission V (TC V)? What is the thrust of TC V in the next four years (2016-2020)?

It is a great honor and privilege for me to serve in this prestigious International Society as President of Technical Commission V for the period 2016-2020. With its main focus on promoting Education and Outreach, Technical Commission V has an important role to play in bridging two different entities: the rapidly growing geospatial industries and advanced remote sensing technologies at one end, and developing required curricula and innovative approaches to effectively reach students and academia at the other end.

We have set out our mission to support, promote and motivate education and outreach approaches to strengthen human capacity building at all levels: working professionals, educators and students in the areas of geospatial technologies and their applications. These plans need a lot introspection of existing technologies and models to achieve efficient distance learning and cross-border education. We want to exploit the present-day advancement of IT and web-based resources-sharing methods, in sync with the evolving educational tools and expanding IT technologies for the future.

What kind of specific targets and activities can we potentially expect from TC V, particularly for Working Group V/5 in which the ISPRS SC is part of?

*Understanding students' concern on unemployment and job security is one of the primary tasks that underpins the motivation to continually develop quality education. Through youth forums and SC activities, TC V/5 is expected to reach young minds and promote the benefits of undertaking the field of geospatial science and technology as their path of choice for achieving a prosperous career. Very reliable sources point out that **the location based service market is slated to raise to the tune of \$1 trillion industrial growth by 2020, and job opportunities in the geospatial technologies and applications to grow to the tune of 35% per annum.** TC V/5 can contribute immensely to boost morale of the students by circulation through the Spectrum (Newsletter), social media engagements and e-mail updates, and also bring lead speakers on these topics in other forums like tutorials and workshops.*

How do you see the ISPRS and ISPRS SC can collaborate in the achievement of these targets?

Today, I am delighted to note that many of officers of ISPRS Technical Commission and Council are the pioneers in their respective specialization in the areas of remote sensing, photogrammetry and geospatial science and systems. They have contributed immensely in these areas by their research and teaching. Above all, they are quite enthusiastic and committed to support students' events. ISPRS SC must engage in studying ways and means to benefit from this wide and rich technical expertise to their globally connected students' community. This can be done effectively by planning and executing interviews and articles from the ISPRS officers and bringing these in different platforms (e.g. Facebook or Twitter), and/or invite them to deliver lectures in Summer Schools and other Students' events.

What are some potential challenges that you foresee that the TC V and the ISPRS-SC in particular may face in the next four years? How would you advice to tackle these challenges?

In my opinion, the most challenging issue that we face today is growing multi-cultural and multi-ethnic environment in education and training programs in various academic institutions globally. Many countries treat this as their neutral environment policy to bring diverse students and professionals in their academic programs. Imparting the geospatial science, technology and application that invariably involve learning a high degree of mathematics, physics and engineering has been a real challenge to impart knowledge in such diverse learning environment. The best way is to develop advance surveying methods through questionnaires to understand the learning capability levels of the participants and moderate the training material and approach to improve the effectiveness of education/training programmes.

Is there any specific (future) project, activity or initiative of the TC that you are particularly excited about? Can you briefly describe what it is and why you think it's exciting?

With advanced mobile based technologies and drones now available at reasonably affordable cost to students, they can strongly contribute their own way to their countries' development by supporting resources and assets mapping and involving in disaster management programs through citizen science. However, the potential of citizen science and location based services methodologies is still not very popular amongst the students' community. It is exciting and rewarding opportunity for students, because they would get to participate in their countries' national growth for which TC V can contribute tremendously. Their contribution would be noted by their governments, which may also help the students get support for attending international meets outside their countries.

What is the role of the members of the ISPRS-SC and how can it be beneficial for the members to take active part in these kinds of activities?

In my view, the ISPRS Students Consortium members are ambassadors with a motivation to help connecting the students' community and the academia and industrialists. Students' community will then feel that the SC is the best entry port for them to engage with many ISPRS events. They will be aware of financial benefits offered by ISPRS for attending these events as well. They should feel that the SC is a good base to learn and achieve their career ambition.

Lastly, what is your advice to the members looking into taking more active roles in the Student Consortium?

*Today, ISPRS represents one of the highest globally accomplished learning societies in the world in the fields of geospatial technologies and applications. **Being members will provide a gate way for students and young professionals a rewarding opportunity to network with peers which will motivate their scientific and technical skills in their career.** I strongly encourage them to actively participate in ISPRS by attending ISPRS Working Groups symposia, ISPRS Summer Schools and publishing their research in ISPRS run journals.*

Know the Working Groups under the ISPRS Technical Commission V

International Collaboration..

..Capacity Building in Various Levels..

..Cost Effective Learning Programmes



Framework for multi-level education and training: curriculum development and methodology (WG V/1)



Web – based resource sharing for education and research (WG V/4)



Promotion of international collaborative education programs (WG V/2)



Promotion of the profession to young people (WG V/5)



Promotion of regional collaboration in citizen sciences and geospatial technology (WG V/3)



Distance learning: education and training services (WG V/6)

The ISPRS Technical Commission V (TCV) under the theme “education and outreach” has a mission to support, promote and motivate capacity building at different levels of professionals, educators, and students and develop cost effective teaching methods which include distance learning programmes, international collaborative effort for sharing web-based resources. To see through this mission, TC V operates through eight working groups (WGs) with different themes and terms of references.

International Collaboration..

Focus Areas of the Working Groups

..Cost Effective Learning Programmes



Working Group V/1 looks at supporting and promoting the development of national and international geospatial-information curricula and educational modules through strengthening cooperation with the users of spatial data, compiling and incorporating best practices for multi-level education and training. It also promotes and organises activities like seminars, workshops and summer schools in cooperation with other technical commissions, other national or international geospatial and related societies. It also cooperates with WG 4/6/7 to test the most technologically advanced tools for education in addition to organising the ISPRS software Computer Assisted Teaching CONtest (CATCON).



Working group V/2 further supports existing ISPRS initiated projects collaborative education programs in the field of photogrammetry, Remote sensing, spatial Information and mapping at universities. It supports, promotes, stimulates and initiates international collaborative education programs, dissemination efforts such as: seminars, tutorial, workshops, symposia, e-bulletins and other mechanisms and tools in various levels aimed at: researchers, PhD, masters, undergraduate, engineers, technicians and other professionals. This through cooperation with other Geo-societies, universities and organisations on issues of common themes and goals, mobilising lecturers, adopting different ways for planning and running seminars, provide facilities, share expenses and share local know how as well as offering a base for future cooperation. Dissemination innovative courses and techniques for writing masters and PhD's thesis proposal and academic writing as well as education courses for young university teachers in the field of photogrammetry, remote sensing and spatial information.



Working Group V/3 looks at citizen science approaches and geoinformatics by integrating geo-processing tools and technologies like web 2.0/mobile and citizen science as well as promoting open data, standards, interoperability and FOSS4G in citizen science. It also looks at improving regional collaboration and community capacity building through citizen science projects.

International Collaboration..



Focus Areas of the Working Groups



..Cost Effective Learning Programmes



Innovative technologies in training civil engineers and architects (WG V/7)



Promotion of open source on geospatial technology (WG V/8)



The WG V/4 promotes web – based resources with free access for remote sensing, photogrammetry and GIS. It also cooperates with WG V/8 for joint events and other WGs in TC I to IV for data sharing and establishment of an online platform for discovery, sharing and geo-processing. It collaborates with academic partners to introduce more use cases for teaching and education and industrial partners to adopt and propagate new technologies. It also tasked with increasing the motivation of students and researchers in a web - based resources sharing environment.



WG V/5 provides guidance for student consortium activities and maintains its budget by advocating for support from the ISPRS foundation (TIF) and the ISPRS council. It also links all ISPRS technical commission executives with the youth by increasing world wide networking to establish local branches of the ISPRS SC. WG V/5 organises the youth forum sessions during the commission’s midterm symposium and the next congress as well as conducting regular meetings and documenting working group activities.



WG V/6 collaborates with working groups II, III, IV and V of the TC to develop the content of distance learning courses and methodologies for sharing with the geospatial community. It also disseminates knowledge on distance – learning best practices through; conference sessions, train trainers webinar(s) and/or workshops, and peer-reviewed articles in ISPRS journals.



The WG promotes cooperation and knowledge exchange between ISPRS and the International Association of Educational Civil Engineering Institutions. It looks at innovative techniques and technologies in photogrammetry and remote sensing for Bachelor’s and master’s degree curricula and postgraduate studies in architecture, town planning and civil engineering. It also develops and implements innovative educational modules on photogrammetry and remote sensing for Bachelor’s and Master’s degree in civil engineering and architecture. It makes outreach programs for the concept of smart cities among civil engineers and architects with the aim of developing a new approach to town – planning and management.



WG V/8 is tasked with promotion of open -source software in geospatial science through cooperation with WG V/4, WGs in commission II, III, and IV, and OSGeo for joint events and data sharing. It also organises joint sessions on open –source and invites authors of latest and popular open source software to provide tutorials as well as co-organising webinars to help people learn and use geospatial technologies with the aid of open sources.

MOJCA KOSMATIN FRAS, PH.D.

Assistant Professor

University of Ljubljana, Faculty of Civil and
Geodetic Engineering, Jamova cesta 2,
1000 Ljubljana, Slovenia

How do you see your role and contribution to the formation of the ISPRS student consortium?

In 2006 I was invited to chair WG VI/5: Promotion of the Profession to Students. One of the objectives of this working group was to support the Student Consortium. I chaired this working group till the ISPRS Congress in Beijing, 2008. During this period, we organized two SC summer schools (2007 in Ljubljana, Slovenia; 2008 in Nanjing, China), developed new design and contents format of SC Newsletter, and organized events dedicated for youth during the Congress in Beijing (Youth Forum, Social Events and Excursions, preparation and adoption of the first version of SC Statutes).

What were the major challenges in the development and growth of the Student Consortium?

As the Student Consortium was at the very beginning of its existence, we had to further develop the vision, mission, and organization scheme. In my opinion, crucial was to attract students to join the SC with interesting activities and the contents. We decided for two main and regular activities: SC Newsletter with 4 issues per year and organization of summer school at least once per year, in addition to special activities for youth during the ISPRS Congresses. When organizing the 2nd summer school in Ljubljana, a new 'format' of the event was developed, which remains thus far. The main idea was to organize the event with highly a professional program, a lot of social activities and excursions, for a fee affordable to students. However, the most important was the support of ISPRS president and council members, and of course the enthusiastic initial group of students that contributed to successful start of the SC.

Please tell us one memorable experience you had working with the member/s of the ISPRS-SC (e.g. student activities, project, summer school etc). What made it memorable?

For me, the visit to the Great Wall of China during the ISPRS Congress in Beijing was the reward after hard work before and during the Congress. This trip was organized specially for the group of students and young professionals who participated in the Congress, together with supporting professors. We all enjoyed the relaxing atmosphere and felt like a large family.

What is your vision for the ISPRS-SC, say in the next 10 years?

I think, the most important is continuation and stability of Student Consortium. The activities and events that are already successful should remain as the basic pillars—in particular, the Student Consortium Newsletter and Summer Schools. There are still some geographic areas that are not yet covered, so there's room for the growth of membership. As the differences between well-developed and under-developed countries in the world become even greater, it is important to attract more students from under-developed countries for cooperation, and to encourage them to enter the scientific society.

Beginnings and Beyond

Envisioning the ISPRS SC Through The Younger Generations

**IAN DOWNMAN**ISPRS International Science Advisory
Committee Chair

Professor Emeritus

University College London

How do you see your role and contribution to the formation of the ISPRS student consortium?

The ISPRS Student Consortium was initially formed at the Istanbul Congress on the initiative of Orhan Altan, the Congress Director. I was Secretary General from 2000 to 2004 and President from 2004 to 2008 and saw the Student Consortium as an important way for students to become involved in ISPRS and to understand the objectives and structure of the organisation. I fully supported the establishment of the SC and helped draw up the statutes which were approved at the General Assembly in Beijing in 2008.

What were the major challenges in the development and growth of the Student Consortium?

The students were always enthusiastic about setting up the SC, so that was not a problem. A major challenge was working out a structure which would integrate the SC into ISPRS but allow independent governance, and planning of activities with support from ISPRS. I believe that this was achieved through the links with Commission V. Another issue was ensuring continuity as students don't remain students for ever, but individuals have always been available to ensure that the SC remains strong and active.

Please tell us one memorable experience you had working with the member/s of the ISPRS-SC (e.g. student activities, project, summer school etc). What made it memorable?

I have always found it very satisfying to attend the students' awards ceremonies and to see the enthusiasm and quality of the students. Meeting students, past and present, who are or have been involved in the Student Consortium is also very rewarding.

What is your vision for the ISPRS-SC, say in the next 10 years?

My vision is for the ISPRS Student Consortium to expand, to work with other student organisations such as FIG and ICA, and to attract members from regions such as Africa and Latin America that, at present, have only limited involvement with ISPRS.

UPCOMING EVENTS 2017

DATE	EVENT	SITE	CONTACT
25-27 Oct 2017	ISPRS WG III/4, WG III/1 & WG I/5 Frontiers in Spectral imaging and 3D Technologies for Geospatial Solutions	Jyväskylä, FINLAND	Eija Honkavaara +358-40-1920835 eija.honkavaara@nls.fi
26-27 Oct 2017	ISPRS WG IV/1, WG IV/5 & WG IV/10 3D-GeoInfo 2017	Melbourne, AUSTRALIA	Mohsen Kalantari +61 3 8344 0274 mohsen.kalantari@unimelb.edu.au
28 Oct 2017	ISPRS WG II/5 Workshop on Multi-Sensor Fusion for Dynamic Scene Understanding in conjunction with ICCV 2017	Venice, ITALY	Alper Yilmaz +1 614-247-4323 Yilmaz.15@osu.edu
01-03 Nov 2017	ILUS 2017 International Land Use Symposium 2017 - Use of spatial modelling and data visualisation to enlighten future sustainable policy making	Dresden, GERMANY	Dr. Martin Behnisch m.behnisch@ioer.de
06-09 Nov 2017	ISPRS TC I XXVII Brazilian Congress of Cartography	Rio de Janeiro, BRAZIL	Raul Queiroz Feitosa +55 21 3527 1212 +55 21 3527 1232 raul@ele.puc-rio.br
13-17 Nov 2017	XI JORNADA DE EDUCACION EN PERCEPCION REMOTA EN EL AMBITO DEL MERCOSUR	Temuco, CHILE	Rodrigo Santander rsantander@uct.cl
14-16 Nov 2017	Pecora20 20th William T. Pecora Memorial Remote Sensing Symposium Observing a Changing Earth: Science for Decisions...Monitoring, Assessment, and Projection	Sioux Falls, South Dakota , USA	pecora20@asprs.org
20 Nov 2017	ISPRS WG I/10 Workshop on Passive and Active Electro-Optical Sensors for Aerial & Space Imaging	Wuhan, CHINA	Dominik Rueß +49 30 67055518 ruess@informatik.hu-berlin.de
27-30 Nov 2017	Pacific Islands GIS/RS User Conference 2017 Innovative GeoSpatial Solutions to Pacific Island Challenges	Suva, FIJI ISLANDS	+679-3249 237 gisconf@spc.int
28-29 Nov 2017	ISPRS TC II LowCost 3D - Sensors, Algorithms, Applications "	Hamburg, GERMANY	Thomas P. Kersten +49 40 428275343 thomas.kersten@hcu-hamburg.de
04 Dec 2017	ISPRS WG V/7 Workshop "Geospatial Solutions for Structural Design, Construction and Maintenance in Training Civil Engineers and Architects" and a seminar "GIS-based Decision-making in Realizing Smart City Concept"	Kyiv, UKRAINE	Roman Shults +38 067 230 70 09 +38 044 243 26 71 r- schultz@mail.ru

The 2020 ISPRS Congress: Imaging Today, Foreseeing Tomorrow

June 28th – July 4th, 2020
Nice, France

By Nicolas Paparoditis
ISPRS 2020 Congress Director



France will host the 24th ISPRS Congress (<http://www.isprs2020-nice.com>), which will take place in 2020 in the gorgeous city of Nice, on the Mediterranean Sea, from June 28 to July 4.

Nice, the cosmopolitan and multicultural capital of the French Riviera, is one of the best places in the world to host an unforgettable ISPRS Congress. Indeed, Nice is an outstanding location between the sea and the Alpes mountains, close to the Italian border, where culture and heritage meet with the cutting-edge technology of the French Silicon Valley, Sophia Antipolis. The Acropolis congress centre is in the heart of the city, 4 minutes walk from the old town of Nice, 10 minutes walk from the beaches, and 15 minutes by tramway from the airport.

experienced scientists, to discover the latest innovations and products of companies, and also to cross-fertilize with scientists coming from related fields. Indeed, this Congress will gather leading specialists, experts, researchers and students in the fields of photogrammetry, remote sensing, and spatial information sciences coming from universities, research foundations, mapping and spatial agencies, public organisations and private companies. A space agency forum and a cadastral and mapping agency forum will also address policy issues in GeoInformation.

“Nice is an outstanding location between the sea and the Alpes mountains... where culture and heritage meet with the cutting-edge technology of Sophia Antipolis, the French Silicon Valley.”



We will build a very rich scientific program that will enable you to be informed of the latest developments in science and technology, to meet and exchange with

The ISPRS 2020 Congress will hold a strong industrial exhibition with both private and public companies. This exhibition will give you the unique opportunity to get



updated in the advances of new geospatial technologies and solutions (satellite systems, lidar systems, hyperspectral imaging systems, mobile mapping systems, UAVs, virtual and augmented reality devices, serious games, 3D printing, GeoBigData processing, GIS technologies, geo-data warehouses, geo-visualisation, geoservices, VGI-technologies, Spatial Data Infrastructures, etc.) and their applications (digital globes and portals, web services for geo-platforms, very high resolution mapping, UAV data acquisition and mapping, road mapping, roadworks, underground and indoor mapping, cultural heritage, geodecision making, urban planning, smart and sustainable cities, 3D city models, 3D road and street models, virtual and augmented reality geovisualisation, autonomous navigation and driving, street mobility diagnosis for the disabled, etc.).

“The ISPRS 2020 congress will hold a strong industrial exhibition with both private and public companies. This exhibition will give you the unique opportunity to get updated in the advances of new geospatial technologies and solutions.”

A particular attention will be given to specific events (pursuing existing ones and creating new ones) that will develop the link between students and industry on the one hand, and between students and experienced ISPRS members on the other hand. Indeed, these are essential to prepare the future and to encourage the involvement of a new generation of young scientists coming from all continents in ISPRS. In addition to the traditional gala dinner, a free congress party will be included in the registration fees to facilitate inter-

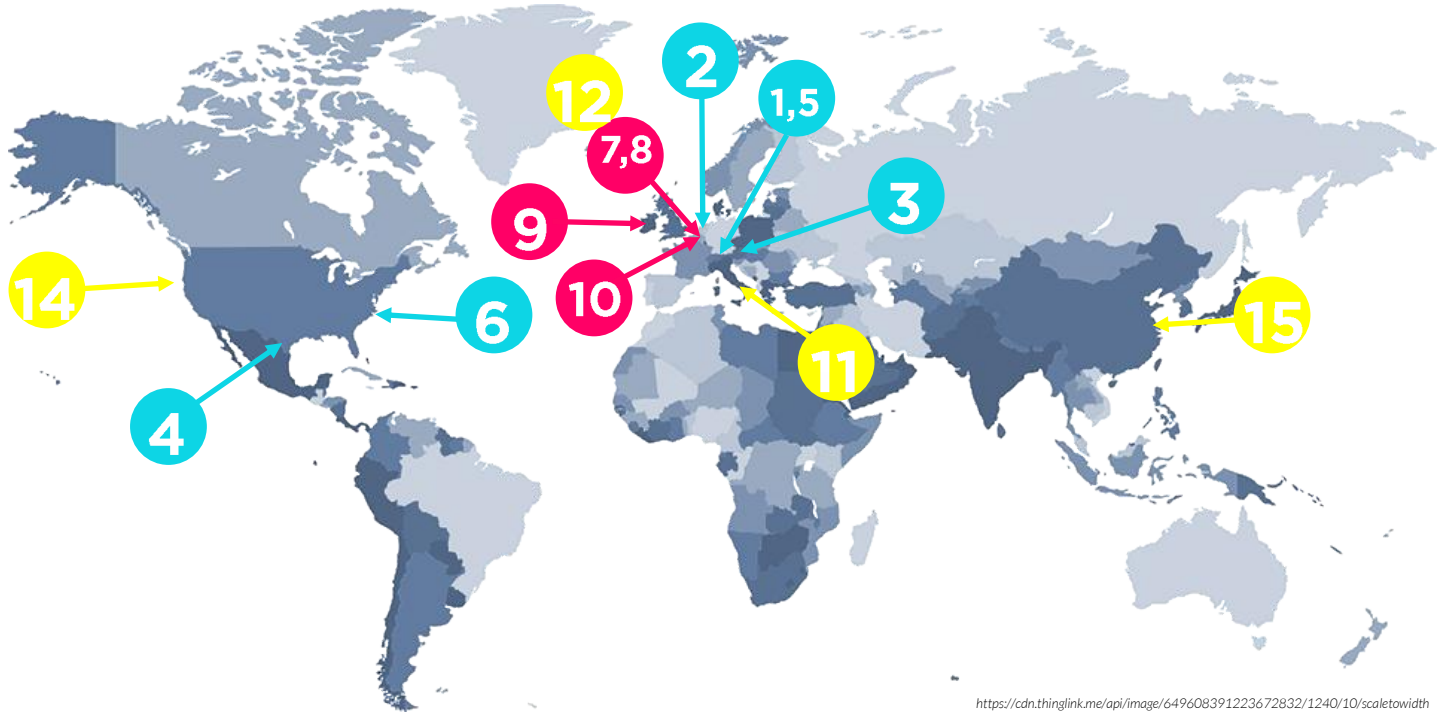
generation exchanges. A new edition of the summer school will be organized by the ISPRS student consortium with the help of the congress organising committee as well as France's engineering schools and universities involved in the congress organization. Meetings in a speed dating format will also be organized to facilitate the connections between companies and masters or Phd thesis students.

“A new edition of the summer school will be organized by the ISPRS student consortium with the help of the congress organising committee and the French engineering schools and universities involved in the congress organization.”

The ISPRS 2020 Congress is being organised under the direction of Nicolas Paparoditis, member of the ISPRS council and the director of research and education at IGN-France, with the support of major French public institutions dealing with photogrammetry, remote sensing, and spatial information sciences, and will be hosted by the Société Française de Photogrammétrie et de Télédétection (SFPT).

To learn more about the upcoming congress, visit <http://www.isprs2020-nice.com/>.





● PhD positions and scholarships

1. PhD position Human-Centered Mobile Indoor Navigation Guidance.

GIScience Center, University of Zurich, Switzerland | **Deadline:** 01 December 2017
 Website: http://www.geo.uzh.ch/dam/jcr:1c9516fc-6dde-4fc6-8dbc-1fbcaa4174f0/IndoorLBS_PhD_Student_UZH.pdf

2. PhD student focusing on Lateral fluxes from coastal high-arctic watersheds.

Faculty of Sciences, Department of Earth Sciences, Earth and Climate cluster, Vrije Universiteit Amsterdam, Netherlands | **Deadline:** 31 October 2017
 Website: <https://www.vu.nl/en/employment/vacancies/2017/17279PhDpositionfocusingonLateralFluxesfromCoastalHigharcticWatersheds.aspx>

3. PhD position: Machine Learning and A.I. for predicting Motion Traces, "GIScience."

University of Salzburg, Austria | **Deadline:** 01 November 2017
 Website/s: <https://euraxess.ec.europa.eu/jobs/249970> ;
<https://docs.google.com/document/d/1z9bHbMPerACyiSJ-vb1V17QdwYjriBhKBKRP5sYJqBo/edit>

4. PhD Position in areas of Computer Vision, Machine Learning, and Remote Sensing, Geospatial Computing Sciences program.

Texas A&M University-Corpus Christi, Texas, USA. | **Deadline:** No particular deadline
 Website: <http://faculty.tamucc.edu/mrahnemoonfar/bina/phd-position-and-funding-available/>

5. PhD Candidate on High-resolution remote sensing and modelling of nitrogen dioxide at city scale (HighNOCS), Atmospheric Modelling and Remote Sensing group.

Empa, University of Zurich (UZH), Switzerland. | **Deadline:** 30. November 2017
 Website: <https://academicpositions.eu/ad/empa/2017/phd-candidate-on-high-resolution-remote-sensing-and-modelling-of-nitrogen-dioxide-at-city-scale-highnocs/105272>

6. PhD Assistantships in Geospatial Analytics.

NC State University, North Carolina, USA. | **Deadline:** 01 February 2018
 Additional detail: Twelve fully funded Ph.D. graduate assistantships with \$25,000 salary, benefits, and tuition support are available for Fall 2018.
 Website/s: <https://cnr.ncsu.edu/geospatial/academics/phd-in-geospatial-analytics/> ;
<http://gis.vsb.cz/2017/10/11/ph-d-assistantships-in-geospatial-analytics-at-nc-state/>

● Post-doctoral Opportunities

7. Post-doctoral research in "Snow Estimation Under a Vegetation Gradient Using SnowEx Data."

KU Leuven, Belgium. | Deadline: 21 November 2017

Website: <https://icts.kuleuven.be/apps/jobsite/vacatures/54372683>

8. Post-doctoral fellowship in diagnostic and analysis of global and regional land carbon fluxes.

KU Leuven, Belgium.

Deadline: The position is available from February 1st 2018. The call will remain open until filled with review of applications and interviews.

Website: http://eo.belspo.be/Docs/DocExt/call_postdoc_LSCE.pdf

9. Post-doctoral scholarship in "Combined downward continuation and spatio-spectral concentration techniques to reconcile the geomagnetic field at the core-mantle boundary inferred from satellite magnetic observations."

Geophysics Section of the School of Cosmic Physics, Dublin Institute for Advanced Studies, Ireland.

Deadline: Review of applications begins on October 1, 2017 and the position will remain open until filled.

Website: <http://www.earthworks-jobs.com/seismo/dias17091.html>

10. Post-doctoral fellowship in in the field of crustal deformation.

Department of Geosciences of the Ecole Normale Supérieure, Paris, France.

Website: <http://www.geologie.ens.fr/~jolivet//Opportunities.html>

● MSc, Job opportunities and others

11. ERC-funded BigEarth project: BigEarth - Accurate and Scalable Processing of Big Data in Earth Observation.

Department of Information Engineering and Computer Science, University of Trento, Italy.

Deadline: There is no strict deadline and the position will remain open until it is filled.

Website: <http://bigearth.eu/openpositions.html>

Additional detail: Position for two Post-doctoral researchers are open

12. Remote Sensing Researcher for the Development of a Garden Monitor for Flanders.

Department of Earth & Environmental Sciences, KU Leuven, Belgium.

Deadline: 01 December 2017

Website: <https://icts.kuleuven.be/apps/jobsite/vacatures/54359959>

13. UNESCO MAB Young Scientists Awards.

Deadline: 15 December 2017

Website: http://www.belspo.be/belspo/organisation/actua/2018%20MAB-YSA_EN.pdf

14. Assistant and Associate Professor in the area of Data Science for Social Equity.

Geography, University of Oregon, USA.

Deadline: 01 November 2017 (Minimum Requirements: Ph.D. in Geography or related field by time of appointment)

Additional detail: 2 Positions Available (Tenured/Tenure Track)

Website: <https://academicjobsonline.org/ajo/jobs/9772>

15. Geospatial Analyst/Specialist at The International Maize and Wheat Improvement Center, known by its Spanish acronym, CIMMYT

Zhengzhou, Henan province (China)

Deadline: This position will remain open until filled.

Website: <https://academicpositions.eu/ad/cimmyt/2017/geospatial-analyst-specialist/97281>; https://cimmytreruitment.wufoo.com/forms/irs17115_geospatial-analyst-specialist/

ACKNOWLEDGEMENT



DR. A. SENTHIL KUMAR
ISPRS Technical Commission V
President

Dr. A. Senthil Kumar is the President of the ISPRS Technical Commission-V on Education and Outreach for 2016-2020. "He has been designated as Director of Indian Institute of Remote Sensing, Dehradun where he guides faculty to conduct advance topic courses and enhance outreach programs of IIRS (since 2015). He is presently also the Director of UN affiliated Center for Space Science and Technology Education in Asia and the Pacific.¹"

¹<http://www.iirs.gov.in/directoriirs>



Please visit our SC web page sc.isprs.org where you will find more information about Student Consortium, our previous Newsletter issues, SC activities, photo galleries from previous Summer Schools, interesting links etc.

