



# International Society for Photogrammetry and Remote Sensing

On the front line of geospatial  
research

Prof Dr. Sisi Zlatanova  
President TCIV





# ISPRS Mission: why we exist

- ... to advance the photogrammetry, remote sensing and spatial information **sciences** through international cooperation in **research**, **development** and **education** for the benefit of society and for environmental sustainability.

(from ISPRS Strategic Plan 2010)



# Science and development

## Beyond topographic mapping

### – **Photogrammetry**

- computer vision, autonomous driving, robotics, cultural heritage, industrial measurement

### – **Remote sensing**

- constellations and swarms, “the whole earth every day” (in real time), monitoring and data continuity

### – **Spatial information science**

- spatio-temporal modelling, crowd sourcing, social media, personal navigation, ubiquitous computing



# Development of ISPRS



# The beginning

- founded on July 4, 1910 in Vienna on the initiative of Prof. Eduard Doležal
  - International Society of Photogrammetry (ISP)
- oldest international umbrella organisation in its field



**Eduard Doležal, a professor for practical geometry at Vienna University of Technology**



# ISPRS beyond photogrammetry

- Name change in 1980 to include **Remote Sensing**
- Ad hoc Committee report in 1990:
  - ‘acquisition of spatial data by photogrammetry and remote sensing can *not be divorced from subsequent processing and management*’
  - ‘recent developments ... have seen ISPRS activities *expand .. into a much wider range of topics*’
- Today, ISPRS activities include acquisition, modelling, analysis, DB management and visualisation of geospatial data in different applications with a focus on imagery: **Information from Imagery**



# ISPRS goes geospatial: Imagery is core to GIS



**GIS brings value**

- Contextual relationships
- Visual integration
- Data management
- Spatial analysis
- Communication



- Timely, rich information
- Measurements and analysis
- Authoritative source

**Imagery brings value**



# Membership



# ISPRS Membership

- **Ordinary** members (92)
  - representing a country or region as a whole
- **Associate** members (16)
  - representing a community not represented by the Ordinary Member organization
- **Regional** members (14)
  - multi-national association promoting regional cooperation
- **Sustaining** members (58)
  - connection to the commercial world
- **Individual** members (increasing daily)



# Regional members

Navigation: Login Home ISPRS Foundation Sitemap Search

isprs information from imagery

November 24, 2019 Home The Society Members Commissions Documents Publications Education Calendar Links News

**Members**  
Ordinary Members  
Associate Members  
**Regional Members**  
Sustaining Members  
Honorary Members  
ISPRS Fellows  
Benefits  
Application Forms

**BAE SYSTEMS**  
INSPIRED WORK  
ISPRS Sustaining Members

## Regional Members

A multi-national association of Photogrammetry, Remote Sensing and/or Spatial Information Science organizations established for the purpose of considering issues of common interest, promoting regional cooperation, convening regional conferences etc. Associations which wish to represent their organizations as Regional Member are encouraged to submit the Application Form for Regional Members.

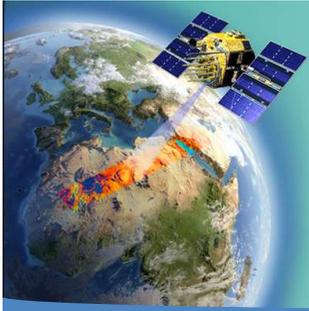
[Display Full List](#)

Number of Regional Members: 14

| Regional Member | Name   | Country      | More information     |
|-----------------|--|--------------|----------------------|
| AARS            | Asian Association on Remote Sensing  | Japan        | <a href="#">more</a> |
| AARSE           | AARSE - African Association of Remote Sensing of the Environment                               | Nigeria      | <a href="#">more</a> |
| ARCSSTE-E       | African Regional Centre for Space Science and Technology Education – English                   | Nigeria      | <a href="#">more</a> |
| CRTEAN          | Centre Régional de Télédétection des États de l'Afrique du Nord (CRTEAN)                       | Tunisia      | <a href="#">more</a> |
| CSSTEAP         | Centre for Space Science and Technology Education in Asia and the Pacific                      | India        | <a href="#">more</a> |
| EARSeL          | European Association of Remote Sensing Laboratories  | Germany      | <a href="#">more</a> |
| EIS Africa      | EIS Africa   | South Africa | <a href="#">more</a> |
| EuroSDR         | EuroSDR  | Belgium      | <a href="#">more</a> |
| OACT            | African Association of Cartography & Remote Sensing (OACT)                                     | Algeria      | <a href="#">more</a> |
| PAIGH           | Cartography Commission, Pan American Institute for Geography and History                       | Hungary      | <a href="#">more</a> |
| PGRSC           | Pacific GIS and Remote Sensing Council   | Fiji         | <a href="#">more</a> |
| RCMRD           | Regional Centre for Mapping of Resources for Development                                       | Kenya        | <a href="#">more</a> |
| RECTAS          | Regional Centre for Training in Aerospace Surveys (RECTAS)                                     | Nigeria      | <a href="#">more</a> |
| SELPER          | Sociedad Latinoamericana de Especialistas Percepción Remota y Sistemas de Información Espacial | Argentina    | <a href="#">more</a> |



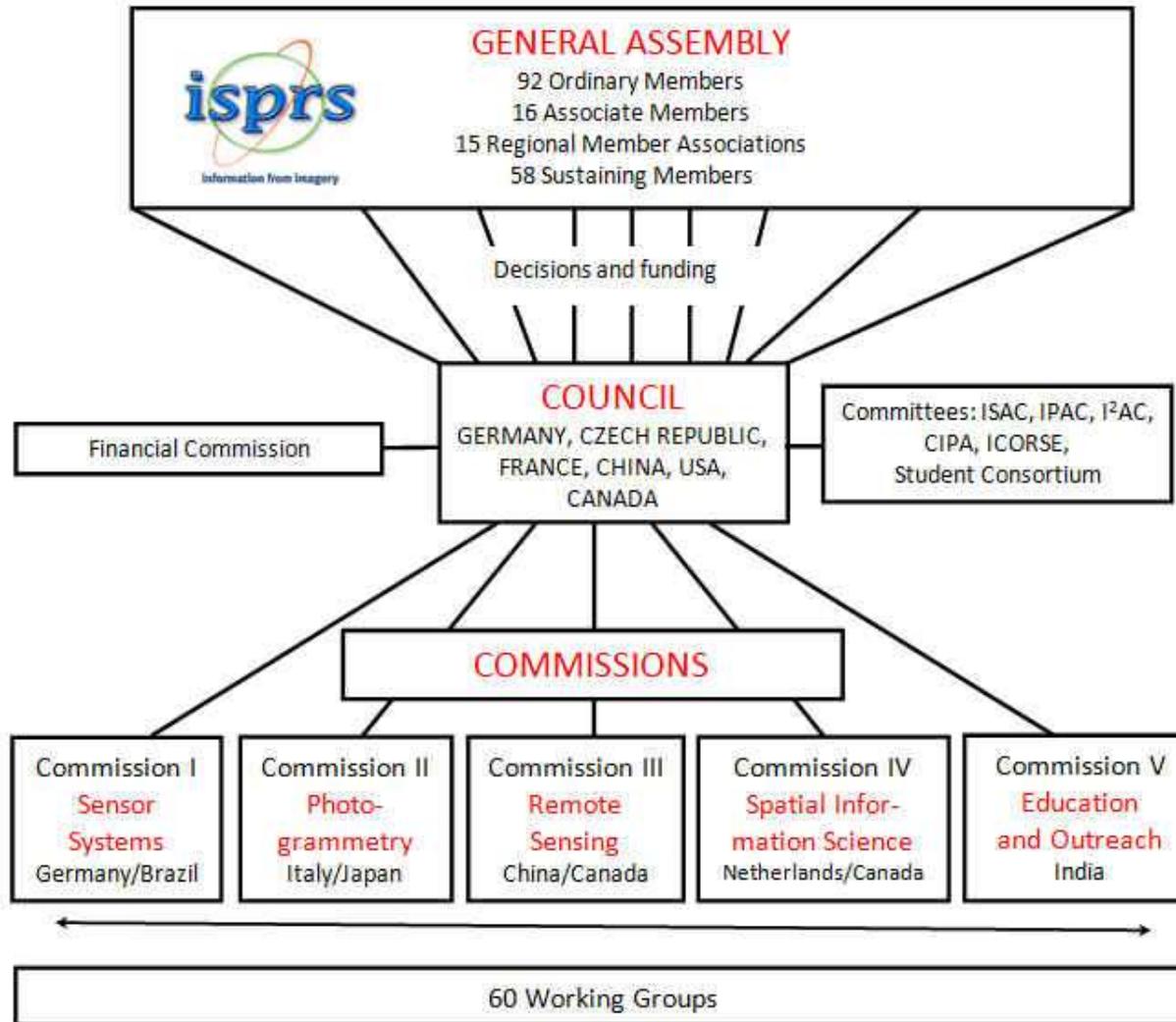




# Internal structure



# ISRPS Structure (2016 – 2020)





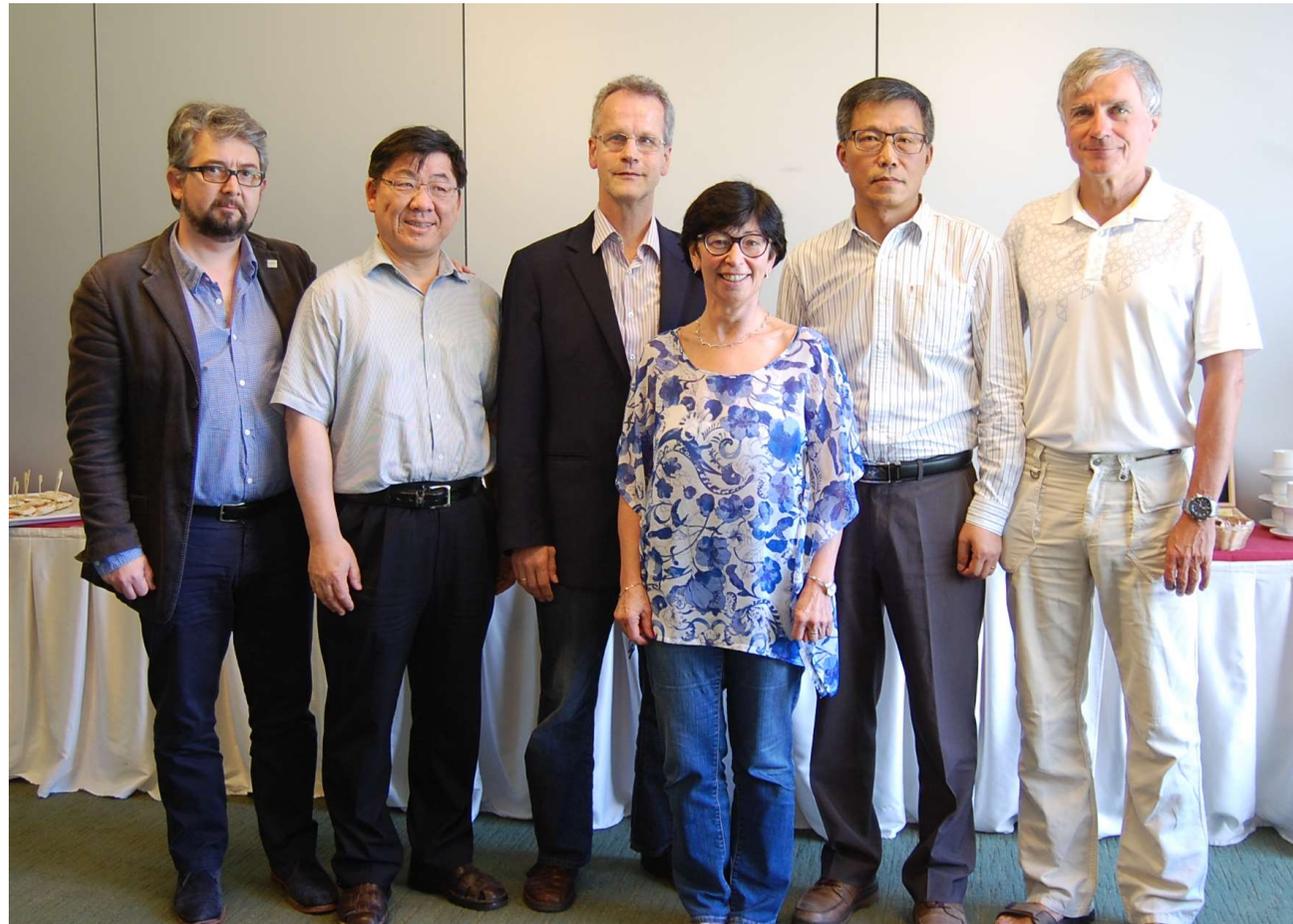
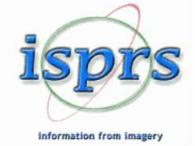
# General meeting schedule

- **ISPRS Congress** for all in „Summer Olympic years” (2000 – 3000 participants)
- **ISPRS Geospatial Week in** odd years
  - approx. 500 participants
- One **Symposium** per Commission in “Soccer World Cup Years” (approx. 300 participants each)
- Smaller **Workshops**, organised by WGs

| 2016               | 2017       | 2018     | 2019             | 2020             |
|--------------------|------------|----------|------------------|------------------|
| Congress<br>Prague | GSW, Wuhan | Symposia | GSW,<br>Enschede | Congress<br>Nice |



# ISPRS Council (2016 – 2020)



Prague 2016



# Technical Commission Presidents (2016 – 2020)



Prague 2016



# Technical Commissions (2016 – 2020)

| No. | Commission title            | President / Vice-president                                   |
|-----|-----------------------------|--|
| I   | Sensor systems              | Stefan Hinz (Germany) /<br>Raul Feitosa (Brazil)             |
| II  | Photogrammetry              | Fabio Remondino (Italy) /<br>Takashi Fuse (Japan)            |
| III | Remote sensing              | Jiang Jie (China) /<br>Ahmed Shaker (Canada)                 |
| IV  | Spatial information science | Sisi Zlatanova (Netherlands) /<br>Suzana Dragičević (Canada) |
| V   | Education and outreach      | A. Senthil Kumar (India) /<br>P.L.N. Raju (India)            |



welt-atlas.de

...über 1400 Karten aus aller Welt



# Commissions and Working Groups

- Each Commission is responsible for approx. 10 working groups (approx. 60 in total)
- WGs cover dedicated topics
  - “this is where the actual work is done”, e. g.
    - benchmarks
    - common theoretical and experimental investigations
    - editing of special journal issues
    - organisation of focussed workshops, tutorials, seminars
- Intercommission WGs ensure collaboration
- New WG setup every 4 years

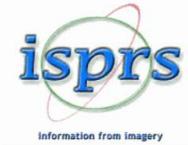


# Technical Commission IV

## Spatial Information Science



# SIS within ISPRS



## 1992-1996

**Com III** (Heinrich Ebner, University Munich): Theory and Algorithms

- **WG III/3** - Semantic Models and Object Recognition, Chair: Toni Schenk, Columbus, Ohio, USA
- **ICWG III/IV** - Conceptual Aspects of GIS, Chair: Martien Molenaar, AH Wageningen, Netherlands

**Com IV** (Roy A. Welch, University of Georgia) Mapping and Geographic Information Systems

Semantic models  
Conceptual aspects of  
GIS

Mapping and GIS

## 1996-2000

**Com II** (Ian DOWMAN, University College London): Systems for Data Processing, Analysis and Representation

- **WG II/2** Software and Modelling Aspects for Integrated GIS, Chair: Dr. Manfred EHLERS, ISPA, University of Vechta
- **WG II/3** Spatial Data Handling Technologies, Chair: Henrik OSTERLUND, Swedish Space Corporation
- **WG II/6** Integration of Image Understanding into Cartographic Systems, Chair: David McKEOWN, Carnegie Mellon University

Integrated GIS  
Spatial Data  
Handling  
Cartography



# SIS within ISPRS



## 2000-2004

**Com II** (CHEN JUN, National Geomatics Centre of China): Systems for Data Processing, Analysis and Representation

- **IC WG II/IV** - Systems for automated geo-spatial data production and updating from imagery, Chair: **Christian Heipke**, University of Hanover
- **WG II/3** - Integrated systems for information services, Chair: Poul Frederiksen, Technical University of Denmark
- **WG II/5** - Design and operation of spatial decision support systems, Chair: **Wolfgang Kainz**, University of Vienna
- **WG II/6** - Spatial analysis and visualization systems, Chair: **Zhilin Li**, The Hong Kong Polytechnic University

**Com IV** (COSTAS ARMENAKIS, Geomatics Canada): **Spatial Information Systems and Digital Mapping**

## 2004-2008

**Com II** (Wolfgang Kainz, University of Vienna): **THEORY AND CONCEPTS OF SPATIO-TEMPORAL DATA HANDLING AND INFORMATION**

- Christopher Gold, Donna Pequet, Lin Yaolin, Monika Sester, Ali Sharifi, William Cartwright, Marinos Kavouras, Wenzhong Shi

**Com IV** (Shailesh Nayak, Indian Space Research Organization): **GEO-DATABASES AND DIGITAL MAPPING**

- Jie Jiang, Peggy Agouris, Christian Heipke, Jochen Schiewe, Songnian Li, Michael Hahn, Jürgen Oberst, Sisi Zlatanova, David Holland

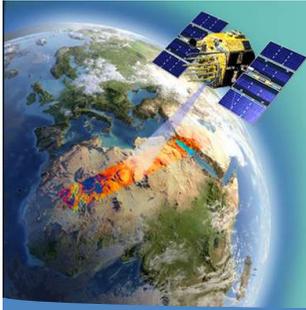
Geospatial Production  
IS for information  
services

Spatial Analysis  
Visualisation

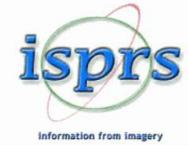
SI Systems  
Digital Mapping

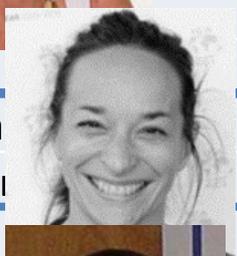
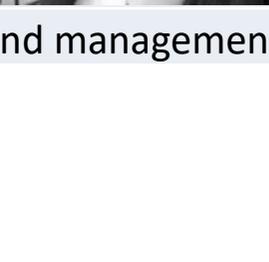
Theory and concepts

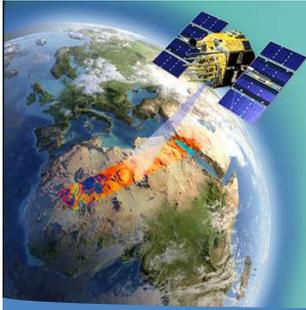
Geo-databases  
Digital mapping



# Structure of TCIV (2016-2020)



|                |  |   |   |   |
|----------------|--|---|---|---|
| WG IV/1        | Multi-dimensional modelling                    |    |    |    |
| <b>WG IV/2</b> | Ontologies, Semantics and Knowledge            |    |    | Spatial Inform  |
| WG IV/3        | Spatial Data Analysis, Statistics              |    |    |    |
| <b>WG IV/4</b> | Collaborative Crowdsourced                     |   |   |   |
| WG IV/5        | Indoor/Outdoor Seamless Mo                     |   |   |  |
| <b>WG IV/6</b> | Internet of Things, SDI and Sp                 |  |  |  |
| WG IV/7        | Geo-Data Management                            |   |   |   |
| WG IV/8        | Geocomputation and geosim                      |   |   |   |
| <b>WG IV/9</b> | Geovisualization and Virtual Realit            |   |   |   |
| WG IV/10       | Advanced Geospatial Applications               |   |   |   |
| IC WG IV/III   | Global mapping: updating, verifica             |   |   |   |
| IC WG I/IV     | Robotics for Mapping and Modelli               |   |   |   |
| IC WG III/ IV  | Disaster assessment, monitoring and management |   |   |   |



# WG Officers on World Map





# Other involvements

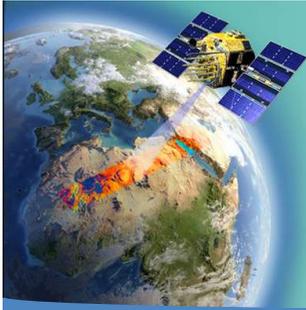


# ISPRS Student Consortium



- ... the next generation leaders of ISPRS
- students and young professionals
- SC founded in 2004,  
Chair: Sheryl Rose  
Reyes (Philippines)





# Regional representatives

- ... assist Council to coordinate activities in regions not adequately represented
- ... liaise with (potential) members within the region concerning ISPRS goals and activities



Hussein Farah,  
Africa



Mario Hernandez,  
South America



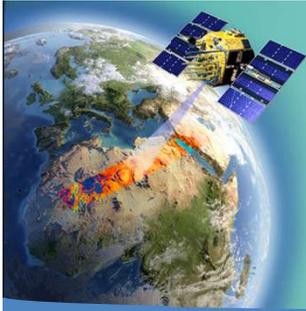
Shailesh Nayak,  
Asia



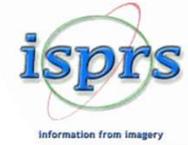
Muhamad Alrajhi,  
Arab States



# ISPRS publications



# Annals and Archives



- Publications
- Archives
- Annals
  - ISPRS Journal Ph & RS
  - ISPRS Journal Geo-Info
  - ISPRS eBulletin
- ISPRS Highlights
- Book Series
- Brochure
- ISPRS Profile
- Annual Reports
- Related Publications
- Booklets
- Strategic Plan

## The International Archives of the Photogrammetry and Remote Sensing Information Sciences

- » Guidelines for Authors (Orange Book)
- » Review Process for ISPRS Archives
- » Search with ISPRS
- » Title and / or Subject
- » ISPRS

**Archives and Annals included**

**in Web of Science, DOAJ, SCOPUS, EI**

Information



**Annals** in Web of Science, DOAJ, SCOPUS, EI

peer-reviewed full paper

proceedings

**Archives** paper proceedings based on abstract

review



# ISPRS Journal of Photogrammetry and Remote Sensing



Volume 157

November 2019

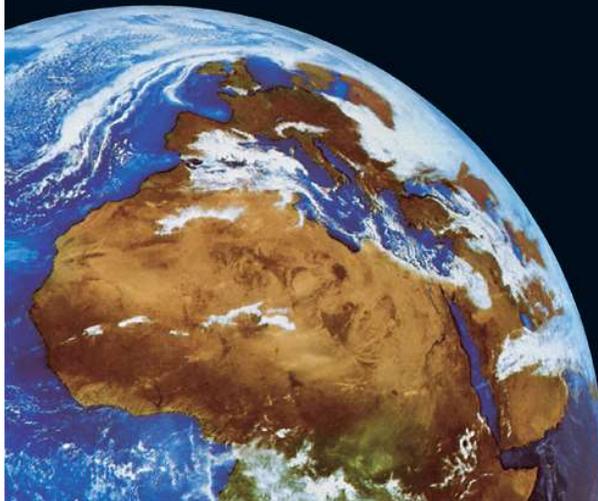
ISSN 0924-2716



ISPRS Journal of

## PHOTOGRAMMETRY AND REMOTE SENSING

Official Publication of the International Society for Photogrammetry and Remote Sensing (ISPRS)



### Editor-in-Chief

[D. Lichti](#)

University of Calgary, Alberta, Canada

[Email D. Lichti](#)

Laser scanning, photogrammetry, range imaging, sensor modelling and calibration, point cloud processing



[Q. Weng](#)

Indiana State University, Terre Haute, Indiana, USA

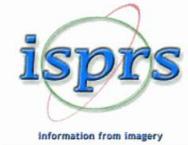
[Email Q. Weng](#)

Remote sensing, imaging science, GIS, urban ecological and environmental systems, land-use and land-cover changes, environmental modeling





# ISPRS Journal of Photogrammetry and Remote Sensing



## Journal Metrics

> CiteScore: **8.64** ⓘ

Impact Factor: **6.942** ⓘ

5-Year Impact Factor: **7.856** ⓘ

Source Normalized Impact per Paper  
(SNIP): **2.862** ⓘ

SCImago Journal Rank (SJR): **2.979**  
ⓘ

> View More on Journal Insights

## ELSEVIER 2019 Journal Metrics

**... one of the top  
journals in  
remote sensing and  
photogrammetry  
worldwide!**



# ISPRS International Journal of Geoinformation (ISPRS IJGI)



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## ISPRS International Journal of Geo-Information — Open Access Journal

*ISPRS International Journal of Geo-Information* (ISSN 2220-9964) is an international **peer-reviewed** open access journal on geo-information. It is a journal of the **ISPRS** (International Society for Photogrammetry and Remote Sensing) and is published monthly online by MDPI.

- **Open Access** - free for readers, with **article processing charges (APC)** paid by authors or their institutions.
- **High visibility:** The journal is covered by **Science Citation Index Expanded** (Web of Science), Scopus and INSPEC (IET).
- **CiteScore** (2018 Scopus data): **2.58**, which equals rank 22/86 (Q2) in the category 'Earth and Planetary Sciences (miscellaneous)', rank 78/629 (Q1) in 'Geography, Planning and Development', and rank 11/34 (Q2) in 'Computers in Earth Sciences.'
- **Rapid publication:** manuscripts are peer-reviewed and a first decision provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 3.7 days (median values for papers published in this journal in the first half of 2019).
- **Recognition of reviewers:** reviewers who provide timely, thorough peer-review reports receive vouchers entitling them to a discount on the APC of their next publication in any MDPI journal, in appreciation of the work done.

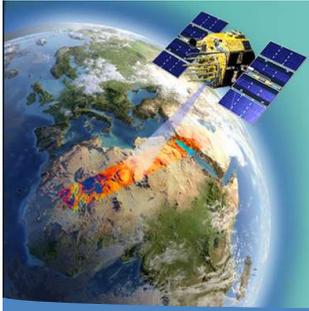
**Impact Factor:** 1.840 (2018) ; 5-Year Impact Factor: 2.022 (2018)



[Imprint Information](#)



[Journal Flyer](#)



# Activities



# ISPRS activities

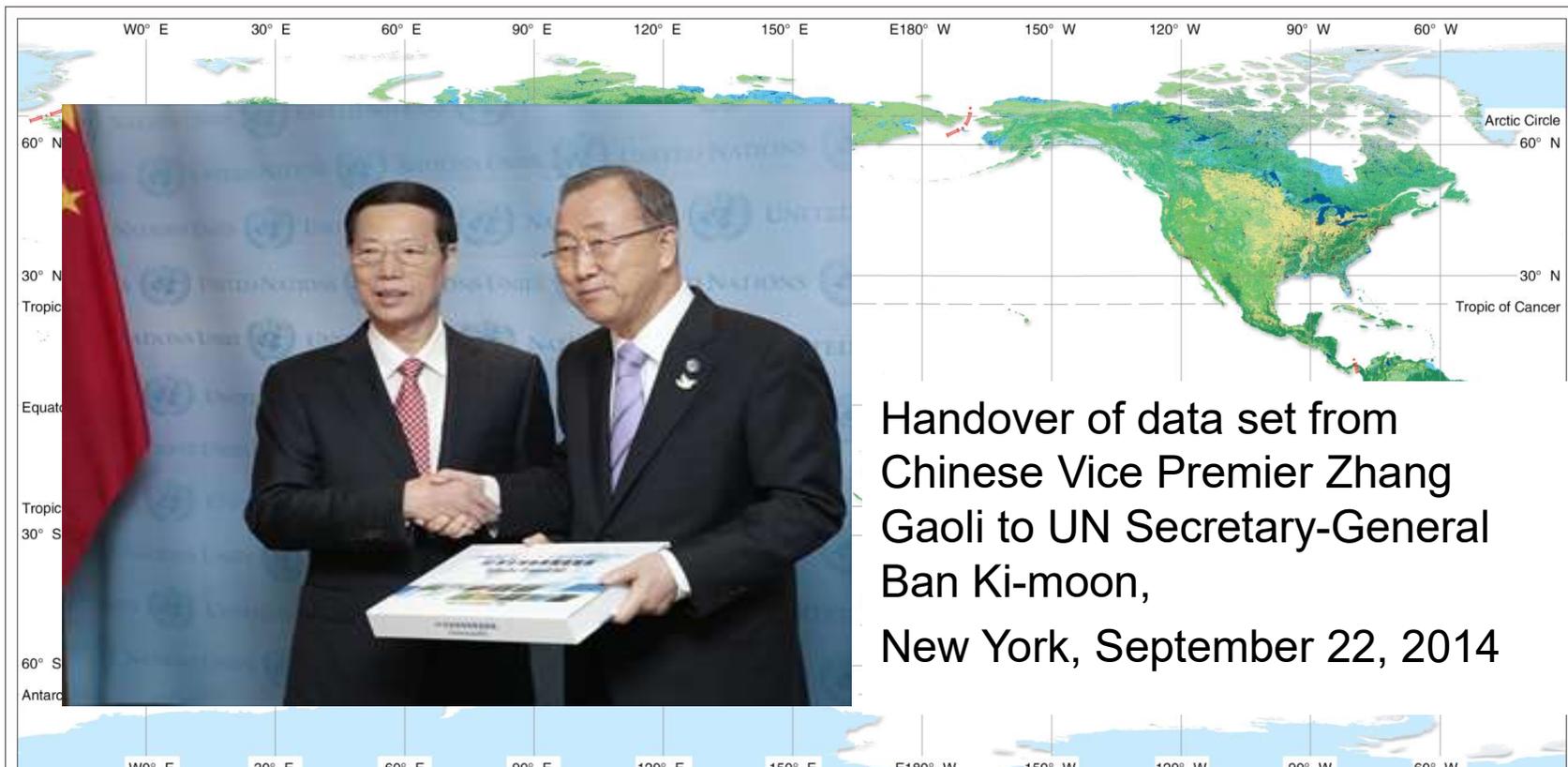
- **Research** coordination
  - Commissions, Working Groups, benchmark tests
- International **scientific meetings**
  - Congress, Geospatial Week, Symposia, Workshops
- **Education** and outreach
  - Student Consortium, summer schools
- Bridge into **commercial** world
  - Exhibitions, International Industry Advisory Committee
- **Network** of scientists and professionals
  - Scientific Publications, Web, eBulletin



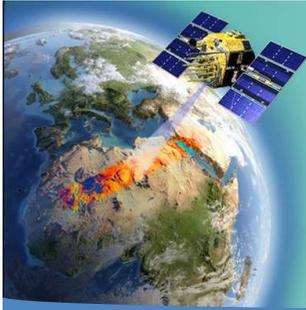


# Global landcover data @ 30 m

- Generated by Chinese government
- Donated to UN at a Climate Change Summit, 2014
- Distribution endorsed and supported by ISPRS



Handover of data set from  
Chinese Vice Premier Zhang  
Gaoli to UN Secretary-General  
Ban Ki-moon,  
New York, September 22, 2014



# Scientific Initiative: Multi-platform benchmark



(a)



(b)

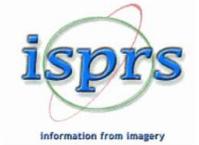
Figure 4: Example of dense point clouds generated from airborne oblique images (a) and co-registered UAV and terrestrial images, both showing the city hall (and square, in (a)).





# Cooperation with South America

- **personal contacts**, trips of Council members to region
  - Braz. RS Symposium: Joao Pessoa, Apr. '15; Santos, May '17
  - LARS, Santiago de Chile, Mar.'16
- ISPRS / IEEE-GRSS **summer schools**, tutorials
  - Summer school, Curitiba, Oct. '15
  - Large scale photogrammetry and RS with UAV, Pres. Prud., Sept. '16
  - SAR tutorial at SELPER International Symposium, Iguazu, Nov. '16
- **MoU** with SELPER International, Nov. '16
- Raul Feitosa – **ISPRS TC I** vice president (2016 – 2020)
- ISPRS **Journal special issue** “Coping with Environment. Challenges in Latin America with RS” (deadl. Sept. '17)



# ISPRS congress Nice, 14-20 June 2020





# The congress



- The ISPRS congress is **the major scientific event of the Geospatial community** every 4 years
- The largest event covering all the geospatial fields where **digital imaging systems** designers, **photogrammetrists**, **remote sensors** and **spatial information** scientists meet, share their **expertise** and discuss
- A very **rich scientific conference** with **2500-3000 participants** and more than **2000 papers** presented and published in our ISPRS Annals and Archives
- Enabling participants to remain at the **state-of-the-art** on the currents trends in **science**, **technology** and **business**
- **Meet and network** with a very large number of experts, and to **cross-fertilize** with colleagues coming from neighbouring fields





# The global program

2000 papers presented in 6 scientific tracks (one per commission plus a special session one) and published in Annals and Archives of PRS which are referenced by Web of Science, Scopus, and EI

addressing hot topics of our geospatial community gathering decision-makers, industry, academia, public organisations, associations : **Building a better future together**

|         | Sunday, 14 June 2020                                   | Monday, 15 June 2020                                   | Tuesday, 16 June 2020  | Wednesday, 17 June 2020                                | Thursday, 18 June 2020  | Friday, 19 June 2020  | Saturday, 20 June 2020  |
|---------|--|--|--|--|---|---|---|
| AM      | Tutorials<br>General Assembly N°1                      | Plenary Sessions N°1                                   | Plenary Sessions N°2   | Plenary Sessions N°3                                   | Plenary Sessions N°4  | Plenary Sessions N°5  | Plenary Sessions N°6  |
|         | 6 Scientific Tracks<br>Technology Track<br>Forum Track | 6 Scientific Tracks<br>Technology Track<br>Forum Track | 6 Scientific Tracks<br>Technology Track<br>Forum Track<br>General Assembly N°2 | 6 Scientific Tracks<br>Technology Track<br>Forum Track | 6 Scientific Tracks<br>Technology Track<br>Youth Forum<br>Innovation Track<br>Forum Track | 6 Scientific Tracks<br>Technology Track<br>Youth Forum<br>Innovation Track<br>Forum Track<br>General Assembly N°3 | 6 Scientific Tracks<br>Technology Track<br>Youth Forum<br>Innovation Track<br>Forum Track |
|         | Poster sessions  | Poster sessions  | Poster sessions  | Poster sessions  | Poster sessions   | Poster sessions   | Poster sessions   |
| PM      | Tutorials<br>General Assembly N°1                      | 6 Scientific Tracks<br>Technology Track<br>Forum Track | 6 Scientific Tracks<br>Technology Track<br>Forum Track<br>General Assembly N°2 | 6 Scientific Tracks<br>Technology Track<br>Forum Track | 6 Scientific Tracks<br>Technology Track<br>Youth Forum<br>Innovation Track<br>Forum Track | 6 Scientific Tracks<br>Technology Track<br>Youth Forum<br>Innovation Track<br>Forum Track<br>General Assembly N°3 | 6 Scientific Tracks<br>Technology Track<br>Youth Forum<br>Innovation Track<br>Forum Track |
|         | Registration ceremony                                  | Poster sessions  | Poster sessions  | Poster sessions  | Poster sessions   | Poster sessions   | Poster sessions   |
| All day | Registrations site                                     | Exhibition (Mediterranee/Rhodes)                       | Exhibition (Mediterranee/Rhodes)   | Exhibition (Mediterranee/Rhodes)                       |   |   | Closing ceremony  |

focus on oral presentations of **latest technologies**, products, services and platforms by industrial and academic ISPRS Sustaining Members.

A large **industrial exhibition** (>75 stands)

**Hackaton** (sprint-like event) and **Mapathon** (collaborative mapping event)

focus on graduate, master and PhD students around oral and interactive sessions, **speed dating** activities



# Registration

<http://www.isprs2020-nice.com/index.php/participate-submit/#register>

Early registration: before **13 April 2020**

Full fee standard (**basic**): 940 euro (**700**)

Regular registration: before **1 June 2020**

Full fee standard (**basic**): 1090 euro (**850**)

All Conference sessions

Morning & afternoon Coffee/Tea (Monday, Tuesday, Wednesday, Thursday, Friday, Saturday)

Luncheons on Monday, Tuesday, Wednesday, Thursday, Friday, Saturday

Opening & Exhibitors Reception

Access to the ISPRS Exhibition

Tramway pass





# Location





# Nice & Nice's surroundings



Nice



Nice



Monaco



Menton



Saint-Paul de Vence



Cannes

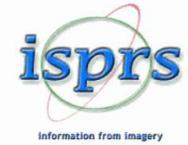


# Nice & Nice's surroundings



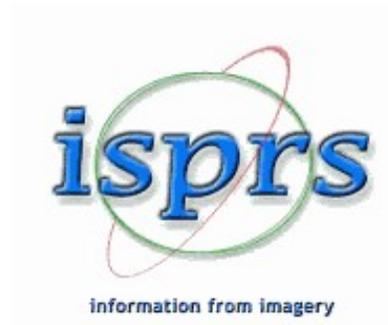


# ISRPS



**107 years of serving society with  
information from imagery ...**

**... and still going strong**





[www.isprs2020-nice.com](http://www.isprs2020-nice.com)



**14-20 JUNE 2020, NICE, FRANCE**

*Looking forward to seeing you in Nice!*

Prof. Dr. Sisi Zlatanova  
President TCIV Spatial Information Science  
Head GRID, UNSW Sydney, FBE, Australia  
[isprs-pr-c4@isprs.org](mailto:isprs-pr-c4@isprs.org); [s.zlatanova@unsw.edu.au](mailto:s.zlatanova@unsw.edu.au)