



International Society for Photogrammetry and Remote Sensing (ISPRS)

Beijing University of Civil Engineering and Architecture (BUCEA)

Chinese Society for Geodesy Photogrammetry and Cartography (CSGPC)

China Association for Geospatial Industry and Sciences (CAGIS)

GNSS & LBS Association of China (GLAC)

China Centre for International Science and Technology Exchange (CISTE)

Beijing International Science and Technology Exchange Center (BISTEC)

International Science Council (ISC) GeoUnions Standing Committee on Disaster Risk Reduction

United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM) Academic Network

National Earth Observation Data Center (NODA)

Key Laboratory of Urban Spatial Information, Ministry of Natural Resources

China Urban Infrastructure Chamber of Commerce New Infrastructure Branch

Zhongguancun Geospatial Information & Technology Alliance

PIESAT Information Technology Co., Ltd.



**Gi4DM 2022 & Urban Geoinformatics 2022**

November 1-3, 2022, Beijing, China  
<https://www.gi4dm.net/2022/>



## INTRODUCTION

The event is organized by ISPRS Technical Commission III and IV. It is consisted by 2 sub-events. One is the **ISPRS Workshop on Geospatial Information for Disaster Management (Gi4DM 2022)**. The other is the **ISPRS High-level Forum on Urban Geoinformatics (Urban Geo-informatics 2022)**. The aims of the events are to provide an inter-disciplinary platform for scientists, researchers and practitioners in the field, to present the latest developments and applications, discuss cutting-edge technologies, exchange research ideas, and promote international collaboration.

### Geospatial Information for Disaster Management (Gi4DM 2022)

The event is an annual conference devoted to the application of geo-informatics in disaster risk reduction since 2005, organized by ISPRS in cooperation with different international bodies such as UNOOSA, ICA, ISCRAM FIG, IAG OGC, and WFP. The fundamental goal of the conference is to provide a forum where disaster managers, stakeholders, researchers, data providers and system developers can discuss challenges, share experience, discuss new ideas, demonstrate technology and analyze future research toward better support of risk and disaster management activities. For the period 2016-2022, Gi4DM is coordinated by the ISPRS Inter-Commission Working Group III/IVa on Disaster Assessment, Monitoring and Management. And since 2020 Gi4DM is jointly coordinated by the International Science Council (ISC) Geo-Unions Standing Committee on Disaster Risk Reduction.

Disaster risk reduction is the common responsibility of all professionals. The COVID-19 epidemic ravaging the world recent years triggered huge demands for geo-information related strategy/methods/techniques.

With the background, the topics of the event will include (not limited to):

- User needs and requirements
- Technology developments
- Applications of geospatial information to Disaster Monitoring or Management
- Data collection and management
- Data integration and knowledge discovery
- End-user environments for interaction, visualization and updating
- Positioning and location-based communication
- Assisted navigation and evacuation
- Automated mapping
- Geo-information education for disaster management
- Development and sharing of geospatial analytics

### High-level Forum on Urban Geoinformatics (Urban Geoinformatics 2022)

With dense population, active economy and developed infrastructures, cities are very important for sustainable development of the countries, regions and the whole world. It is essential to better understand, plan, monitor and manage the development of cities, with the support of geoinformation technologies. High-level forum on urban geoinformatics 2022 is the first of a series of conferences that focus on RS, GIS and other related topics in urban context. The venue will be rotating among Beijing, Sydney and Toronto, every 1 or 2 years.

The topics of the 2022 event will include (not limited to):

- Digital Twins
- Digital Engineering
- 3D City Modeling
- Urban Multi-planning Data Fusion
- Ubiquitous Monitoring and Dynamic Cognition of Urban Development
- Integration of Internet of Things (IoT)
- Urban Social Networks
- Mobility and Transportation
- Knowledge Engineering
- Decision-making Support and Service Platform
- Disaster Management
- Smart Visualization
- Megacities

## PROGRAMME AT A GLANCE

November 1, Tuesday		
09:00-10:00	Opening Ceremony	
10:00-10:30	Tea Break	
10:30-12:00	Plenary Session 1	
12:00-13:30	Lunch	
13:30-15:00	Plenary Session 2	
15:00-15:30	Tea Break	
15:30-17:00	Plenary Session 3	
November 2, Wednesday		
08:30-10:00	Gi4DM Session 1	Urban Geo-info Session 1
10:00-10:30	Tea Break	
10:30-12:00	Urban Geo-Info Session 2	Gi4DM Session 2
12:00-13:30	Lunch	
13:30-15:00	Special Session on Open Science approaches for DRR	Gi4DM Session 3
15:00-15:30		
15:30-17:00		Urban Geo-info Session 3
November 3, Thursday		
08:30-10:00	Urban Geo-info Session 4	Gi4DM Session 4
10:00-10:30	Tea Break	
10:30-12:00	Urban Geo-info Session 5	Special Session on one-stop remote sensing big data online services
12:00-13:30	Lunch	
14:00-16:00	Special Session on ecological environment monitoring to urban areas along China-Europe Railway	



## PORGRAMME FOR NOVEMBER 1

09:00-10:00	<p>(Banquet Hall, the 1<sup>st</sup> floor; ZOOM Webinar) Chair: LIU Xianglei, Vice Dean, School of Geomatics and Urban Spatial Informatics, BUCEA</p> <p><b>SONG Chaozhi</b>, President, Chinese Society of Surveying, Mapping and Geoinformation <b>LI Aiqun</b>, Vice President, Beijing University of Civil Engineering and Architecture</p> <p><b>JIANG Jie</b>, Secretary General of ISPRS</p>
10:00-10:30	Tea Break
10:30-12:00	<p>(Banquet Hall, the 1<sup>st</sup> floor + ZOOM Webinar) Chair: JIANG Jie, Secretary General of ISPRS</p> <p><b>WANG Jie</b>, Honorary member of ISPRS</p> <p><b>KIMBERLY</b>, Department of Architectural Science, Toronto Metropolitan University, Canada</p> <p><b>LI Jie</b>, State Key Laboratory of Earth Surface Processes and Resource Ecology, China; International Geographical Union (IGU)</p>
12:00-13:30	Lunch (Zijinyunding Revolving Restaurant, the 26th Floor)
13:30-15:00	<p>(Banquet Hall, the 1<sup>st</sup> floor + ZOOM Webinar) Chair: DENG Yang, Secretary of ISC-GU-SC-DRR</p> <p><b>DIETMAR</b> - International Union of Radio Science (URSI); Professor of Chemnitz University of Technology, Germany,</p> <p><b>DI</b> - University of New South Wales, Australia</p> <p><b>LI</b> - University of Twente, the Netherland</p>
15:00-15:30	Tea Break
15:30-17:00	<p>(Banquet Hall, the 1<sup>st</sup> floor + ZOOM Webinar) Chair: DENG Yang, Secretary of ISC-GU-SC-DRR</p> <p><b>DI</b> - Royal Melbourne Institute of Technology, Australia</p> <p><b>EF HI</b> - Beijing University of Civil Engineering and Architecture</p> <p><b>HI</b> - School of Population Health, University of New South Wales, Australia</p>

## PORGRAMME FOR NOVEMBER 2

08:30-10:00

(No. 6 Hongyun Meeting Room, the 4<sup>th</sup> floor + ZOOM Webinar)  
Chair: XU Shishuo, School of Geomatics and Urban Spatial Informatics, BUCEA



! -Technische Universiteit Delft, The Netherland

// -International Programme Office for Integrated Research on Disaster Risk (IRDR IPO)

13:30-15:00

(ZOOM Webinar)

Chair: CAO Shisong, School of Geomatics and Urban Spatial Informatics, BUCEA

G! -University of Ferrara, Italy

K! !C -J ! -University of the Philippines, Philippines

! -D ! -C !H - !L ! - L ! - ! ,Shandong Universtiy of Technology, China

K! - ! - K! - ! ! -C C! - K! ,China University of Geosciences (Wuhan), China

! - ! - ! ! - K! ,Beijing University of Civil Engineering and Architecture, China

C G! -I H! ,Wuhan University, China

15:00-15:30

Tea Break

15:30-17:00

(ZOOM Webinar)

Chair: LUO Nana, School of Geomatics and Urban Spatial Informatics, BUCEA

G! -B ! -C !D -University of Florence, Italy

# PROGRAMME FOR NOVEMBER 3

<p>08:30-10:00</p>	<p style="text-align: center;">(No. 6 Hongyun Meeting Room, the 4<sup>th</sup> floor + ZOOM Webinar) Chair: WANG Runjie, School of Geomatics and Urban Spatial Informatics, BUCEA</p> <p style="text-align: center;">, ,</p> <p style="text-align: center;">! -! ! ! -!K!K ,!Beijing University of Civil Engineering and Architecture, China</p> <p style="text-align: center;">! -! ! -!K!K -! !D -!Beijing University of Civil Engineering and Architecture, China</p> <p style="text-align: center;">!E -! H! -! , !! -! ! -! D! -!Wuhan University-!China</p> <p style="text-align: center;">KL! -!DE! -!EL! -!Beihang University, China</p> <p style="text-align: center;">!G -! D! -! ! ! -!Wuhan University, China</p> <p style="text-align: center;">!D -! !H -!K!K -!Beijing University of Civil Engineering and Architecture, China</p>
<p>08:30-10:00</p>	<p style="text-align: center;">(ZOOM Webinar) Chair: LUO Nana, School of Geomatics and Urban Spatial Informatics, BUCEA</p> <p style="text-align: center;">! -! E! , -! ! -! E! -!C!D -! E! -! ! ,!Beijing University of Civil Engineering and Architecture, China</p> <p style="text-align: center;">Y.J. Yang, Y.Q. Song,!Shandong University of Technology, China</p> <p style="text-align: center;">L ! -!D! -! ! -! !E -!Beijing University of Civil Engineering and Architecture, China</p> <p style="text-align: center;">K!! -!Beijing University of Civil Engineering and Architecture, China</p> <p style="text-align: center;">L !C -! ! !C -!B D!H -!KH! -!B !C -!K !D -!Caraga State University, Philippines</p>
<p>10:00-10:30</p>	<p style="text-align: center;">Tea Break</p>

10:30-12:00

(No. 6 Hongyun Meeting Room, the 4<sup>th</sup> floor + ZOOM Webinar)  
Chair: CHEN Qiang, School of Geomatics and Urban Spatial Informatics, BUCEA

G/D -! ! -!E G!! -! !! -!Xiamen University of Technology, China

!G -!Beijing University of Civil Engineering and Architecture, China

! -! ! -! !D -! !D -!B !E! -!University of Naples Federico II, Italy

!! -! ! -! L! -! ! -! !L ,!Xiamen University of Technology, China

! -!K!K -! !H -!Beijing University of Civil Engineering and Architecture, China

10:30-12:00

(ZOOM Webinar)  
Chair: ZHU Lin, College of Resource Environment and Tourism, Capital Normal University

!D -!Piesat Information Technology Company, Limited, China

K ! -! Beijing-Tianjin-Hebei Geoscience Data center co-built by National Earth System Science Data Center and Capital Normal University, China

! -!Aerospace Information Research Institute, Chinese Academy of Sciences, China

! -!Piesat Information Technology Company, Limited, China

14:00-16:00

(ZOOM Webinar)  
Chair: JIANG Jie, School of Geomatics and Urban Spatial Informatics, BUCEA

!H -!School of Geomatics and Urban Spatial Informatics, Beijing University of Civil Engineering and Architecture, China

!J - University of Novi Sad, Serbia

J !D -!B !L ! ! ! ! -!B !J ! !

!B -! -! !H ! ! ! !J -!C ! ! !D !F !

! -! !H -!K!K -!Beijing University of Civil Engineering and Architecture, China

!! -! ! ! ! ! !J !F , ! -!D

## VENUE

The event will be held in hybrid manner. The physical venue is in Xiyuan Hotel, a five-star courtyard-style business hotel located between West 2nd Ring Road and West 3rd Ring Road in Beijing, which is 5 minutes' walk from Subway Line 4, Line 6, Line 9. It is also close to the Xicheng Campus of BUCEA, with about 10 minutes' walk.

1 Sanlihe Road, Haidian District, Beijing, China

- <http://xiyuanfandianbeijing.com.cn/xiyuan/overview.html>

## INFORMATION TO SPEAKERS

### Guideline for Oral Presentation

The language of the Symposium will be English. Simultaneous translation will not be provided. To assure that there is effective communication between the speaker and the audience, a speaker must speak clearly, slowly, and concisely.

Each oral session is 1.5 hours long. The time allocation for each presentation is including introduction, and questions/answers. We would suggest you keep your presentation within 12 minutes so there will be 3 minutes for Q/A. But invited papers and keynote speeches will have more time. Please keep the oral presentation within the allotted time slot.

**N N**

For the visual presentations an LCD projector is available to be used with digital presentation (i.e., PowerPoint slide presentation) from the laptop computer provided by the meeting.

A fixed and a carry-on microphone will be available as well as an electronic pointer.

Please ensure that your presentation allows legible and attractive viewing (e.g., uses appropriate font sizes, high quality graphics and is visible to the audience at the back of the room).

The slide in a 4:3 aspect ratio is recommended.

## A G

The meeting will provide Laptop computers for presentations. You are required to (PowerPoint file) into the specified computers your presentation, to ensure your slides can be projected correctly.

If you need to do some special demo that must use your own Laptop computer, you are required to test the connection of your computer to the projector at least half day before your presentation. Please note that the electric current is 220V-50Hz and you may need socket adaptors.

### Site preparation

- (1) Familiarize yourself with the daily time schedule and make sure that you know exactly when you are expected to present.
- (2) Familiarize yourself with the facilities available and do so, whenever possible, the day before. That is, be sure that you know how to project your slides, and that you are comfortable with room lighting, speaker timing devices, microphones, pointers, height of reading desk, etc. Check the best position of microphones according to its "characteristic".
- (3) the session in which you are to speak.
- (4) Please submit the attached to the chairperson.

### Guideline for Virtual Presentations

The language of the Symposium will be English. Simultaneous translation will not be provided. To assure that there is effective communication between the speaker and the audience, a speaker must speak clearly, slowly, and concisely.

You are required to prepare and submit a video presentation 2022.

Each oral session is 1.5 hours long. The time allocation for each presentation is including introduction, and questions/answers. We would suggest you keep your video presentation within 12 minutes so there will be 3 minutes for Q/A. But invited papers and keynote speeches will have more time. Please keep the oral presentation within the allotted time slot.

## N

The video file is in .mp4 format. The file size should \_\_\_\_\_ and the playback time should \_\_\_\_\_. The projection resolution is 1980 \* 1020, and the aspect ratio is 4:3. The video files must be tested by yourself in advance to ensure that the video can be played continuously to the end.

Please send the video to [gi4dm\\_registration@126.com](mailto:gi4dm_registration@126.com) .

## A G

You are required to \_\_\_\_\_ 3-4 days before the meeting. An e-mail will be sent to you with link of ZOOM Webinar instructions for testing.

### Virtual Presentation

- (1) You will receive the Zoom Link before the session, which will be used for attending the sessions and make your presentation.
- (2) \_\_\_\_\_ the session in which you are to speak.
- (3) Please submit the attached \_\_\_\_\_ to the chairperson.

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### IMPORTANT

**Please provide this information to the chairperson before your session**

### Presenter Information

First Name:

Family Name:

Title and Position:

Employer:

Background of Education:

Brief CV:

## REGISTRATION

We sincerely invite all participants to register for attending the events. We offer discount for payment before September 1st.

We provide several categories for registration to cope with COVID-19 epidemic risks. But you can change between on-site/on-line according to the epidemic status before 30 September 2022.

On-site participant (include one paper publication)	3200 RMB / 460 Euro	3500 RMB / 500 Euro
On-line participant (include one paper publication)	1800 RMB / 260 Euro	2000 RMB / 285 Euro
On-line participant (no paper publication)	1000 RMB / 150 Euro	1200 RMB / 170 Euro
On-site student or senior (include one paper publication)	1500 RMB / 215 Euro	1700 RMB / 245 Euro
On-line student or senior (no paper publication)	500 RMB / 70 Euro	600 RMB / 85 Euro
Accompany person (On-site)	1500 RMB / 215 Euro	1700 RMB / 245 Euro
1 day registration (On-site)	1000 RMB / 150 Euro	1200 RMB / 170 Euro
1 day registration (On-line)	500 RMB / 70 Euro	600 RMB / 85 Euro

### Note:

- students are full-time B.Sc, M.Sc or Ph.D students and should upload a valid evidence of their student status when registering.
- Senior are considered participants over 65 years old on 1 November 2022 and can show a valid ID on arrival.
- 1 day registrations DO NOT cover the publication of the paper.
- Accompany person has no access to sessions.

## **COMMITTEE**

Jie JIANG, ISPRS, China  
Sisi Zlatanova, ISPRS TC IV, Australia  
Orhan Altan, ISC GeoUnion Standing Committee on DRR, Turkey  
Songnian LI, UN-GGIM Academic Network, Canada

Alexander Rudloff, IUGG, Germany  
Anika Braun, INQUA, Germany  
Carlo Doglioni, IUGS, Italy  
Edoardo Costantini, IUSS, Italy  
Giuliano Manara, URSI, Italy  
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Yasuhide Hobara, URSI, Japan  
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