

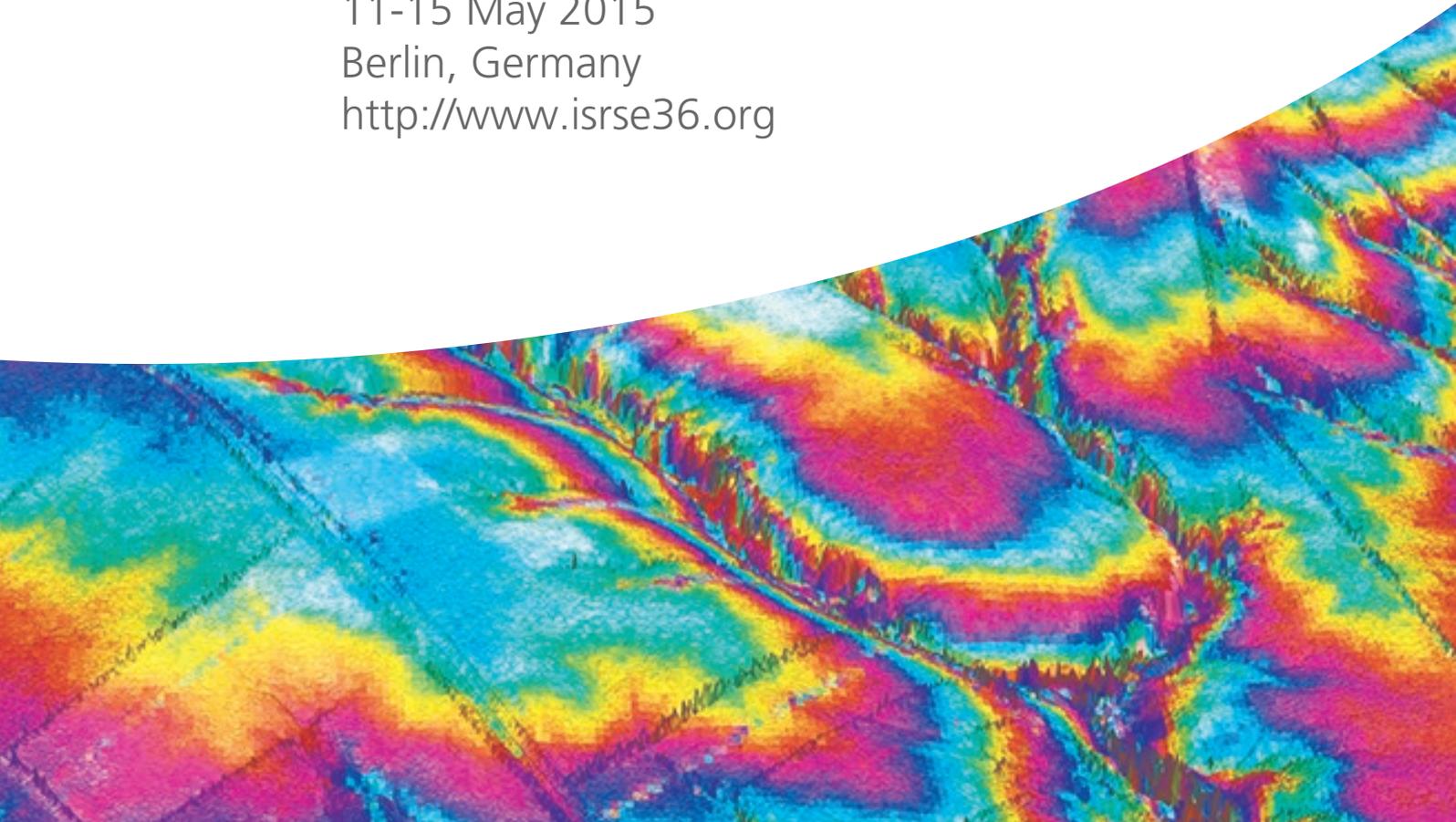


First Announcement
and Call for Papers

36th International Symposium on Remote Sensing of Environment

“Observing the Earth, Monitoring the Change,
Sharing the Knowledge”

11-15 May 2015
Berlin, Germany
<http://www.isrse36.org>



Hosted by the German
Aerospace Center DLR



in partnership with the
International Center
for Remote Sensing of
Environment.



ISRSE is a conference of
the International Society
for Photogrammetry and
Remote Sensing



Invitation



Berlin Central Station and surroundings, observed by TanDEM-X. © DLR

You are invited to the 36th International Symposium on Remote Sensing of Environment (ISRSE), which will take place on May 11-15, 2015 in Berlin, Germany. This 36th Symposium will represent a major event in the long series of internationally recognized ISRSE meetings. The overall theme of the symposium is the use of Earth Observation systems and related Remote Sensing techniques for understanding and managing the Earth environment and resources.

ISRSE-36 takes place at a significant moment: The process to define the UN global development agenda post 2015 with its Sustainability Development Goals will be finalized in 2015. The Future Earth initiative has been created as a global platform to deliver solution-orientated research for sustainability. Among its key challenges are innovative approaches to integrate knowledge systems (data, observation, modelling, etc.), including remote sensing of the environment. A second Hyogo Framework of Action with its goal to substantially reduce disaster losses is set to be launched in 2015, where Earth observation approaches play an increasing role in making societies resilient to disasters. The global Group on Earth Observations (GEO), together with its partners, such as the Committee on Earth Observing Satellite (CEOS), addresses all of these political and scientific agendas while it currently prepares for its second implementation phase 2016-2025. ISRSE-36 will be an excellent forum to present results from past and current scientific achievements related to those international developments, as well as to discuss future plans for them. ISRSE-36 will feature recent milestones in the development of Earth observation programmes addressing sustainable development, global environmental issues and resilience to disasters:

- The European Union's Earth Observation Programme Copernicus, managed by the European Commission in partnership with the European Space Agency (ESA), has gone operational in 2014. The first mission of its dedicated Sentinel satellite fleet, Sentinel-1A, has been launched successfully, others will follow soon.
- The Symposium will also devote attention to other significant Earth Observation programmes world-wide, public as well as private, such as the US Land Imaging Programme and its Landsat legacy, the SPOT, Radarsat, ALOS or CBERS programmes, and ESA's Living Planet programme.
- The German Aerospace Center DLR is operating very successfully the TerraSAR-X mission and, together with its twin satellite, the TanDEM-X mission. 2015 will witness the full completion of the TanDEM-X global Digital Elevation Model. This will be an unique dataset with unprecedented quality and coverage. The RapidEye mission has been launched in 2008, where DLR supports its scientific exploitation. DLR also prepares for the EnMAP Hyperspectral Imaging mission to be launched in 2017.

ISRSE-36 will provide an outstanding opportunity to learn about these major programmes and their first results. It will be an important forum to present applications based on these new missions and to exchange views on future directions of Earth Observation technology and geographic information management. The Symposium will include plenary and thematic sessions, poster sessions and side events on issues of interest to scientists, policy makers and resource managers in the public and private sectors. The programme will feature speakers from around the globe sharing their experiences and knowledge on Earth observation applications and programmes. By attending the ISRSE-36, practitioners, scientists, policy makers, system engineers and students will be able to get a full view of the current situation in a range of fields now deemed critical in the Earth's sustainable management.

The 36th ISRSE is organized by the German Aerospace Center (DLR) in partnership with the International Center for Remote Sensing of Environment (Tucson, Arizona). ISRSE is an International Society of Photogrammetry and Remote Sensing (ISPRS) Symposium.

Call for Papers

ISRSE-36 calls for papers on the use of Earth Observation systems and related Remote Sensing techniques for understanding and managing the Earth environment and resources. The Symposium will also cover applications dedicated to enhancing human security such as global disaster risk reduction initiatives. Papers should take stock of progress made in the development of new applications, instruments, systems and analytical techniques in the full range of relevant themes. The 36th ISRSE Programme Committee will consider and evaluate all abstracts received for possible inclusion in oral or poster sessions.

Abstracts (max. 300 words) submitted should focus on one of the following themes (with subtopics given as examples for clarification):

- **Agriculture and Food Security:** Sustainable agriculture: agricultural monitoring; estimation and prediction; global food production: area and yield forecasts; food security and vulnerability; plant diseases; desertification.
- **Forests, Biodiversity and Terrestrial Ecosystems:** Understanding and monitoring biodiversity; management of terrestrial ecosystems; monitoring forest cover and biomass; understanding forest contribution to the carbon cycle; tropical deforestation; forestry and forest management.
- **Atmosphere, Weather and Climate:** Monitoring atmospheric trace gases and parameters; weather information and understanding; weather forecasting and warning; monitoring, and adapting to climate variability and climate change.
- **Natural Disasters Monitoring, Warning and Response:** Understanding risks through long term monitoring; disaster mitigation and alert; supporting disaster response and post-disaster recovery and build-up activities.
- **Energy and Geology:** Monitoring resources of renewable energy; sustainable use of energy and energy resources; mitigating effects on the environment in exploring energy resources; exploration and exploitation of non-renewable energy resources and minerals.
- **Water Cycle:** Understanding the water cycle; water resource management; water bodies as a sustainable resource for fishery, transport and tourism; biodiversity in water bodies; inland water quality.
- **Marine and Coastal Environment, Resources and Dynamics:** Understanding and monitoring marine and coastal biodiversity; the marine environment as a resource for food, energy, transport and tourism; ocean dynamics and parameters; maritime traffic and oil spill monitoring.
- **Polar and Cold Regions:** Understanding and monitoring polar and alpine biodiversity; the polar oceans; glacier and snow monitoring; transport and resources exploitation in the polar environment;
- **Socioeconomic Issues including Health, Urbanization and Human Heritage:** Man and environment; monitoring, understanding and predicting man-made and natural parameters, affecting human health; monitoring urbanization and understanding socioeconomic issues; man in history, culture and world heritage; archaeology and remote sensing.
- **Data and Information Systems and Spatial Data Infrastructures:** Systems to manage, process, store and distribute Earth observation data and products; use of geographic information systems; standards, interfaces and systems for spatial data; new GIS and image analysis techniques; opportunities and challenges of the Internet

- **Airborne and Innovative Remote Sensing Platforms and Techniques:** Airborne platforms and campaigns; new approaches and platforms in space based Earth observation; ground based and in-situ measurements complementing Earth observation.
- **National, Regional and International Programs including Education and Outreach:** Earth observation systems, applications and awareness programs; bilateral and multilateral cooperation mechanisms; education, learning and outreach.

Interested contributors should submit an abstract (max. 300 words) of the paper they propose for presentation in English language until 30 September 2014. Notification of paper acceptance and an author's kit will be mailed by 30 November 2014. Final papers will be due by 25 March 2015. Abstracts must be submitted online via the Abstract Submission System at www.isrse36.org/abstract-submission, which will open on 1 July 2014. Each presenting author will be required to register and pay the registration fee by the author registration deadline on 25 March 2015, to ensure their paper is included in the final programme.

Technical Programme Committee

A Technical Programme Committee composed of international experts from various domains of Earth observation and geographic information science will be responsible for the ISRSE-36 programme and the selection of presentations and posters from the submitted abstracts. Oral presentations (max 15 minutes including questions) will be thematically grouped and conducted in up to six parallel sessions. Poster presentations will feature during dedicated times in the conference schedule.

All full papers will be published in the ISPRS Archives.

Exhibition

The 36th ISRSE Symposium will be accompanied by a dedicated exhibition. Traditionally, major remote sensing and GIS companies as well as space agencies present their latest Remote Sensing programmes, products and services. ISRSE is a unique marketing opportunity to expose products, equipment and services to quality visitors in a short space of time, and for face to face contacts with the industry's Who's Who. The Symposium is an excellent investment in cost-effective advertising and the ideal platform to launch new products, make announcements and present the latest innovations and technological developments. Different exhibition and sponsorship categories will provide flexible and tailor-made opportunities for interested companies and institutions. For more information, please go to www.isrse36.org/exhibit-sponsoring/.

Conference Venue



Photo: Berlin Conference Center © bcc

ISRSE-36 will take place at the Berlin Conference Center (bcc), situated in the heart of Berlin at Alexanderplatz square, within walking distance to the famed Museum Island, the Boulevard "Unter den Linden", and to Checkpoint Charlie and Brandenburg Gate Monuments, to name just a few sites. Built in the early 1960's by Hermann Henselmann, Bauhaus-influenced star architect of the German Democratic Republic (GDR), the bcc is an exceptional and visionary architectural example of that time. It has been completely refurbished some ten years ago, offers up-to-date presentation and communication infrastructure and now hosts around 50 large-scale conferences every year. See www.bcc-berlin.de/en.



Photo: Brandenburg Gate,
© dpa, taken from www.berlin.de

About Berlin

Berlin is a dynamic and creative city where tradition and innovation coexist in a climate of freedom. Germany's largest city offers a myriad of opportunities in areas such as media, culture, development, science and industry. Since the fall of the Wall on 9 November 1989, the city has undergone rapid and dramatic change. And as Germany's capital, it is the seat of the German parliament and government. Berlin is renowned as one of the most exciting places in the world. It has been a city of knowledge and culture since the days of Friedrich the Great in the 18th century. The political and cultural developments of the 19th and 20th century are visible throughout Berlin's cityscape, reflecting both the history of architecture and various approaches to dealing with the consequences of war and destruction. The city reflects the rapid succession of influences and trends, and this juxtaposition and collision of styles makes the city especially appealing to young people from all over the world. They set new trends and, with their individualized lifestyles, are a part of the creative atmosphere the city generates. The city's night life tempts visitors with countless bars, discos, and clubs – which can stay open all night if they like – and with exhibitions and open-air events.

Accommodation

A range of competitively priced accommodation options will be secured for ISRSE 2015. For further information on accommodation options and to reserve accommodation please visit the Symposium website at www.isrse36.org/accommodation.

Side Events

Different workshops related to Remote Sensing of the environment are being planned for Sunday 10 May 2015 immediately preceding the Symposium and in the evenings during the Symposium. Further information will be available on the website at www.isrse36.org/side-events.

Social Events and Technical Tours

An Icebreaker Reception (included in the registration fee) will be held on Monday 11 May at the conference venue. A conference dinner (to be booked in addition to the registration) will be organized for Wednesday 13 May at a special location in Berlin.

Additionally, technical tours will be offered. They will take place after the closing of the conference on Friday 15 May or Saturday 16 May. The tours will take you to technical facilities of DLR in Berlin and its vicinity, as well as to the historic Science Park "Albert Einstein" on Telegraphenberg in Potsdam, some 30 min. southwest of Berlin, featuring numerous historic scientific installations and observatories including the famous Einstein Tower. Nowadays, Telegraphenberg is home for many research facilities, including the German Research Center for Geosciences (GFZ), the Potsdam Institute for Climate Impact Research (PIK), the Potsdam section of the Alfred Wegener Institute for Polar and Marine Research (AWI), and the Astrophysical Institute Potsdam (AIP).

Additionally, a counter of the Berlin tourist office will be at your disposal at the conference venue to offer you tailor-made options for social and cultural activities.



Photo: Einstein Tower at Telegraphenberg
Potsdam. © AIP

Registration

All symposium participants, including speakers / authors, are required to register and pay the full participant registration fee. Symposium badges will be required for all activities. Full payment must accompany registrations. Each participant requires individual registration.

Registration Early Bird Rate = until 15 February 2015	Full	650 €
	Student	300 €
	Single Day Full	300 €
	Single Day Student	150 €
Registration Standard Rate = 15 February - 15 April 2015	Full	750 €
	Student	350 €
	Single Day Full	350 €
	Single Day Student	175 €
Registration Onsite Rate = from 10 May 2015	Full	800 €
	Student	375 €
	Single Day Full	375 €
	Single Day Student	190 €

Registration fee including VAT. Online registration will open on 1 December 2014

The registration fee for participants includes:

- Admission to all areas of the Conference Center
- Conference kit (with copy of programme and abstracts)
- Access to conference programme App (Android and iOS)
- Access to sessions, exhibition and side events
- Coffee breaks
- USB Stick with final papers
- Icebreaker reception on 11 May

Important Dates

1st Announcement and Call for Papers	2 June 2014
Abstract Submission System opens	1 July 2014
Deadline for Abstract and Workshop Proposal Submission	30 September 2014
Abstract Acceptance Notification, Call for full Paper	30 November 2014
2nd Announcement and Preliminary Programme, Registration opens	1 December 2014
End of Early Bird Registration	15 February 2015
Deadline for full Paper Submission, Author Registration Deadline	25 March 2015
3rd Announcement and Draft Final Program	15 April 2015
Close of On-line Registration	15 April 2015
Exhibition Build-up, Workshops, On-site Registration opens	10 May 2015
Convene ISRSE 36	11 May 2015