



7<sup>th</sup> International  
Conference on  
Cartography  
& GIS

<https://iccgis2018.cartography-gis.com>, e-mail: [bgcartography@gmail.com](mailto:bgcartography@gmail.com)

## 7<sup>th</sup> International Conference on Cartography and GIS

The 7<sup>th</sup> International Conference on Cartography and GIS was organized under the patronage of the President of the National Assembly of Bulgaria Mrs. Tsveta Karayancheva during Bulgarian Presidency of the Council of the EU, 2018. Organizers of the conference were Bulgarian Cartographic Association, International Cartographic Association and University of Architecture, Civil Engineering and Geodesy (UACEG), Sofia and co-organizers - Military Geographic Service, Bulgaria and Bulgarian Red Cross. The event was supported by the Bulgarian Science Fund.

In 2018, the picturesque Black Sea town of Sozopol hosted the conference from 18 to 23 June.

The main topics of the conference were:

- GIS Technologies and Related Disciplines;
- GIS for Geology;
- Natural Sciences and Ecosystems;
- Web Cartography and Digital Atlases;
- Map Design and Production;
- Cartographic Visualization;
- Geodetic Coordinate Systems and Map Projections;
- 3D Cartographic Modelling;
- Cartography and GIS in Education;
- Geoinformation for Smart Cities;
- Geo-Spatial Analysis and Data Mining;
- Virtual Geographic Environment;
- UAV Applications and New Trends;
- Geospatial Data Acquisition by Remote Sensing Technologies for Cartographic Purposes.

A special session Digital Earth for Smart Solutions was held with the support of International Society for Digital Earth (ISDE).

Two-day SEMINAR WITH EU COOPERATION ON EARLY WARNING AND DISASTER / CRISIS MANAGEMENT was organized by Prof. Milan Konecny, Chair of Commission on Cartography on Early Warning and Crisis Management and ICA President (former). The seminar was conducted under the auspices of the Czech ambassador to Bulgaria His Excellency Mr. Dušan Štrauch. Co-organizer of the event was Masaryk University, Brno, Czech Republic.

The conference was supported by various ministries and government institutions. As an EU member since 2007 and a NATO member since 2004, Bulgaria welcomed all ideas for

collaboration in the field of Earth science. The organizers are proud to announce that the following leader companies in geoinformatics and cartography domains participated as sponsors of the event: ASSECO (platinum sponsor), ESRI (gold sponsor), DataMap-Europe, KartGeo, Geopan. GIS Professional, GeoConnexion, Coordinates, Remote Sensing Journal, ISPRS International Journal for Geo-Information and Bulgarian Geomedia were media partners.



The main international organizer was the International Cartographic Association (ICA) with the exclusive support of the Secretary General of ICA Prof. Laszlo Zentai, the Vice-President of ICA Prof. Lynn Utery, the Past-President of ICA Prof. Georg Gartner, chairs of ICA commissions – Prof. Milan Konecny (ICA president 2003-2007) and Prof. Miljenko Lapaine, vice-chairs of ICA commissions – Prof. José Jesús Reyes Nunez and Prof. Jiping Liu. This cooperation provoked intense interest among 200 attendees from more than 30 countries. They all contributed to the creation of a special map of the participants in the scientific event.



### **Opening ceremony**

Prof. Temenoujka Bandrova – President of the 7th ICC&GIS Organizing Committee welcomed all the participants to Bulgaria and noted that cartographers and GIS specialists from more than 30 countries came to share their knowledge, find their future partners, and benefit from cooperation with colleagues.

Mrs. Tsveta Karayancheva - President of the National Assembly of Bulgaria, Prof. Ivan Markov – Rector of UACEG, Mrs. Ivelina Vasileva – Chair of the Environment and Water Committee at the National Assembly, Mr. Petar Kanev - Chair of the Economic Policy and Tourism at the National Assembly, academician Hristo Grigorov - President of Bulgarian Red Cross and Dr. Sofia Stoimenova – Director of Bulgarian Red Cross sent greetings to the participants and wished them fruitful work.



Personal greetings headed Mr. Yavor Notev - Vice-President of the National Assembly of Bulgaria, Mr. Valentin Yovev – Vice-Minister of Regional Development and Public Works, Col. Rumen Dumitrov – Director of Military Geographic Service, Ministry of Defence, Prof. Lynn Usery – ICA Vice-President, Prof. Milan Konecny, President of the International Organizing Committee of 7<sup>th</sup> ICC&GIS and His Excellency Mr. Dusan Strauch - Ambassador of the Czech Republic in Bulgaria.



During the opening ceremony, Mr. Yavor Notev handed honorary plaque of the National Assembly and the Bulgarian EU Presidency to Prof. Temenoujka Bandrova – President of Bulgarian Cartographic Association and President of 7<sup>th</sup> ICC&GIS Organizing Committee.



Children's folklore dance ensemble "Atanas Manchev" from Burgas city with artistic director Mr. Dimitar Tonev, greeted the participants with wonderful folklore performance that received great applause.



The Vice-chair of the ICA commission on Cartography and Children prof. José Jesús Reyes Nunez handed a diploma and a prize to Preslava Ivanova (8) whose drawing was awarded at the Barbara Petchenik World Map Competition during the 28<sup>th</sup> International Cartographic Conference in Washington D.C., USA.

### ICA commission meetings

As usual, several commissions of the International Cartographic Association held their annual meetings during the conference: Commission on Cartography in Early Warning and Crisis Management; Commission on Map Projections and Commission on Cartography and Children. The commission meetings led to development of guidelines for future work of their members.

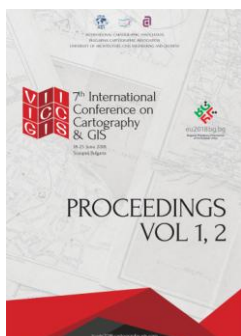


## Keynote speakers

A great interest in the participants was inspired by the conference keynote speakers:

- Prof. E. Lynn Usery, ICA Vice-President, USA;
- Prof. Changlin Wang, Executive Director of International Society for Digital Earth, China;
- Prof. Wolfgang Kainz, University of Vienna, Austria;
- Mr. Nick Land, ESRI Europe, UK;
- Mr. Filip Kaderabek. Asseco - Central Europe, Czech Republic.

Presented right after the Opening ceremony, the speeches set a positive direction for the rest of the conference sessions.



## Publication

122 oral presentations were given in 21 sessions and 12 posters were presented in 6 poster sessions. The papers are published in the e-Conference Proceedings:

<http://iccgis2016.cartography-gis.com/>.

## Training course

A free training course *RUS: Exploiting Copernicus satellite data within a cloud computing environment for GIS and cartographic applications* was held on the fourth day of the conference. The coach Miguel Castro-Gomez, SERCO, Italy, demonstrated to the participants how to request a RUS Virtual Machine for Earth Observation projects and activities exploiting the Copernicus Sentinel data.



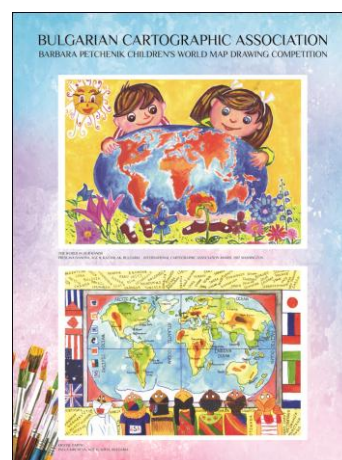
## Memorandum for Future Cooperation between Bulgarian Cartographic Association (BCA) and International Society for Digital Earth (ISDE)

The President of Bulgarian Cartographic Association (BCA) prof. Temenoujka Bandrova and the Executive Director of International Society for Digital Earth (ISDE) prof. Changlin Wang signed a Memorandum for future cooperation between these two organizations.



## Exhibitions

There was an Exhibition of ancient maps hosted by the Diplomatic Institute, Ministry Of Foreign Affairs, Bulgaria. A special selection of Bulgarian children's drawings, that took part in the National Barbara Petchenik Children's World Map Drawing Competition were exposed in front of the main conference hall.



## Awards

### ***A Best Paper Award of 500 CHF sponsored by REMOTE SENSING Journal***

During the conference, the jury members Prof. Lyubka Pashova, Bulgaria, prof. Georg Gartner, Austria, Prof. Lynn Usery, USA, Prof. Jie Shen, China and Prof. Bashkim Idrizi, FYRo Macedonia had the difficult task to evaluate all the papers according to various criteria and reward the best one. The price was awarded to prof. Ivica Milevski from FYRo Macedonia for his paper *Gis-Based Landslide Susceptibility Modelling for the Territory of the Republic of Macedonia*.



### ***Young Scientist Awards***

The papers and presentations of 35 young scientists were evaluated by a jury that includes: prof. Lyubka Pashova, Bulgaria, prof. José Jesús Reyes Nunez, Hungary and prof. Miljenko Lapaine, Croatia. The jury awarded two young scientists - Matjaž Štanfel, a PhD student in Croatia and Paulina Raeva – a PhD student in Czech Republic.

### ***Best papers in the Special Session Digital Earth for Smart Solutions***

The papers of Prof. Jie Shen and Dr. Alexey Noskov presented during the Special Session “Digital Earth for Smart Solutions” will be recommended to International Journal of Digital Earth (IJDE) for peer-review procedure.

## Networking events



All participants were invited to a Welcome reception at the end of the first day of the conference. This was a great opportunity to meet each other and share initial inspirations for the event. The Gala dinner gathered the participants again. This time the good mood was supported by collaboration game, special folklore program, and delicious Bulgarian cuisine.

Some of the attendees enjoyed a full day excursion including a boat trip along the Ropotamo River, a visit to the Beglik tash thracian sanctuary and a walk through the newly-built castle “In Love with the

Wind” in the village of Ravadinovo.

The organizers of the 7th ICC&GIS express their gratitude to all presenters, chairs, reviewers, sponsors, attendees and distinguished guests!

More information can be found here: <https://iccgis2018.cartography-gis.com/>.

*Prof. Temenoujka Bandrova and Dr. Silvia Marinova,  
Bulgarian Cartographic Association*