

# FROM IMAGERY TO DIGITAL REALITY:



Earth Remote Sensing & Photogrammetry

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19<sup>th</sup> International Scientific  
and Technical Conference

October 28-31, 2019  
Seoul, Republic of Korea





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## Earth Remote Sensing & Photogrammetry

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### About

The 19th International Scientific and Technical Conference “From imagery to digital reality: ERS & Photogrammetry” will be held October 28 to 31, 2019, in Seoul, the Republic of Korea.

Determining the venue for the annual Racurs conference is not an easy task. The choice of one country over another is based on the vision of the market, partners’ activity, users’ interest, and our curiosity. Our decision to move to the East, to the Republic of Korea, was easier than ever. Korea is a unique country in relation to Russia. Despite the close location, this country is still very mysterious in terms of culture and technology.

The culture of “pali-pali” (faster-faster) allowed South Korea to become a world technological leader in a short time. As a result, one of the world’s best cadastre and cartography application systems was created. In just twenty years, South Korea has changed paper maps to digital ones, weekly updating data about road infrastructure and construction. This is one of the few countries that has full-fledged remote-sensing technologies, consisting of optical, radar, and UAV systems. It is no coincidence that the importance of geospatial information is emphasized by the mayor’s office of Seoul, the capital of the Republic of Korea, which rightfully occupies the sixth place in the ranking of Smart Cities of the World.

Racurs has been successfully cooperating with key Korean companies in the remote sensing and photogrammetric market, being a partner of SI Imaging Services, the exclusive distributor of KOMPSAT data. Our companies jointly export geospatial solutions based on Korean space images and Russian PHOTOMOD photogrammetric technologies. SI Imaging Services is a coorganizer of the conference.

We would be glad to have your participation! See you in Korea.

*Sincerely yours,  
the Organizing Committee of  
the International Scientific  
and Technical Conference  
“From imagery to digital reality:  
ERS & Photogrammetry”*



*Dr. Victor Adrov  
Head of the  
organizing committee*





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### Organizer

Since its foundation in 1993, the **Racurs** Company (Moscow, Russia) has been developing innovative digital mapping software for the processing of aerial, space and terrestrial imagery. Our flagship product PHOTOMOD was one of the first digital photogrammetric systems on the market designed to work on off-the-shelf PCs.

PHOTOMOD is extensively used worldwide and is presently the most popular digital photogrammetric system in Russia. Initially a single product company, Racurs' market involvement has expanded to include software development, provision of remote-sensing data and production of photogrammetric services.



### Co-organizer

#### SI Imaging Services (Republic of Korea)

SI Imaging Services (SIIS) is the exclusive worldwide marketing and sales representative of KOMPSAT series : KOMPSAT-2, KOMPSAT-3, KOMPSAT-3A, and KOMPSAT-5. SIIS contributes Remote Sensing and Earth Observation industries / societies by providing very high resolution optical and SAR images through over 100 sales partners worldwide.

Customers from industries as well as government and international agencies are using KOMPSAT imagery for their missions and researches and achieve good results in several remote sensing applications such as mapping, agriculture, disaster management, and so on. SIIS started its business as a satellite image and service provider and extended its business to KOMPSAT operation.



### Supported by

- International Society for Photogrammetry and Remote Sensing (ISPRS)
- State Space Corporation ROSCOSMOS
- GIS-Association Russia
- The Russian Society of Geodesy, Cartography and Land Management

### Media partners





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### Sponsorship

We cordially invite companies who are interested in becoming sponsors and advertisers of the conference.

This conference event will provide an excellent opportunity to present your company to the professional and authoritative participants who will be attending, as well as to effectively place advertising and informational materials.

Category	Rates (USD)
<b>Platinum</b> Sponsor	20 000
<b>Gold</b> Sponsor	10 000
<b>Silver</b> Sponsor	5 000

### Advertising

Commercial presentation	300
Promotional materials included in attendance package: leaflet A4 / booklet	300/500
Colour promotional module (A4) inside the conference proceedings	300
Mobile stand (RollUp) in the conference hall	300



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### Conference topics

#### **Earth Remote Sensing (ERS) — from imagery to analytics**

Analytics of ERS data is one of the most demanded services in geoindustry. Huge amounts of data — accumulated by space survey operators by now — are becoming ever more accessible for end consumers.

There is active development of “from raw imagery to spatial information” services. This section is called upon to answer questions about how services based on technologies of receiving and processing ERS data will be developed, how the approach of space imagery operators will change, how convenient the forms of work with space information will be, and how much it will be in demand by the market.

#### **Methods and technologies of spatial data acquisition — from rivalry to synergy**

The last years were marked by the use of multi-agent systems as technological platforms of spatial data acquisition. Technological schemes — “space-airborne-UAV” and “scanner-optics-lidar” — have become widely used in the solution of various production tasks when it is necessary to receive information in strictly scheduled terms. Combining and optimizing spatial data acquisition technologies is the main issue of the section.

#### **Photogrammetry — from algorithms to products**

Photogrammetry in the world technological trend is the key issue of the section, where development and future of the scientific and technical discipline — known for more than one hundred years — will be discussed. Methods of photogrammetry have provided the world with the products without which it would be impossible to imagine our daily lives: first of all, precise maps. What methods, products, and services will photogrammetry offer tomorrow? Which technologies will be determinant for our industry in the coming years: artificial intellect, machine learning, or cloud technologies?

#### **Innovations in cartography**

Difficult tasks face cartography: to meet all the needs in classical products and not be late for innovative challenges. Despite active development of virtual and additional reality technologies, projection of “smart” cities, BIM, and tasks of topographic support of territorial development still face cartography. The main issue of the section is the combination of innovative requests of society and solutions for everyday tasks.

We invite authors to submit an abstract for oral presentation or submit a paper to be included in the conference proceedings.



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### Location

Technology develops most successfully when specialists exchange information freely; one of the most unique aspects of this conference is its international reach. Over its seventeen-year history, the conference has been held in fourteen and has hosted participants from thirty-five countries.

The culture of “pali-pali” (faster-faster) allowed South Korea to become a world technological leader in a short time. As a result, one of the world’s best cadastre and cartography application systems was created. In just twenty years, South Korea has changed paper maps to digital ones, weekly updating data about road infrastructure and construction.

This is one of the few countries that has full-fledged remote-sensing technologies, consisting of optical, radar, and UAV systems. It is no coincidence that the importance of geospatial information is emphasized by the mayor’s office of Seoul, the capital of the Republic of Korea, which rightfully occupies the sixth place in the ranking of Smart Cities of the World.

The conference venue will be announced in March.



### Conference schedule

Monday October 28	Opening, plenary session, Welcome party
Tuesday October 29	Plenary session, business meetings, social activities
Wednesday October 30	Roundtable discussions, business meetings, conference Gala dinner
Thursday October 31	Sightseeing tour

### Deadlines

Early Bird registration — August 16, 2019

Final registration — October 4, 2019

Abstracts and papers:

September 1, 2019 — Report submission deadline

September 15, 2019 — Paper submission deadline



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## Comments

For me personally this conference gives me a unique opportunity to get first-hand information about the status of development in photogrammetry, remote sensing and mapping in the Russian Federation and some other countries usually not so present at international conferences.

*Prof. em. Dr. Armin Gruen, ETH Zurich, Switzerland, 2014*



As I have said many times, you — great. You fellows all — and in science, and business and leisure. You have achieved a lot in our area, and I personally wish you continued success and prosperity. Keep it up!

*Dr. Yuri Raizman, Chief Scientist, PhaseOne, Israel, 2015*



In Stuttgart we celebrated the 100th Anniversary of the Photogrammetric Week serving the world for generations. Even though only a 10-years old, the Racurs Conferences are becoming a fresh equivalent to these traditional meeting in the West.

*Prof. em. Dr. Gottfried Konecny,  
Leibniz University of Hannover, Germany, 2011*



What made this conference special? Firstly, its small scale: one hundred professionals, sixty of whom from Russia. But most impressive was the complete absence of the chest drumming so flashily and embarrassingly in evidence at North American conferences; there was no glitter here, no glamour. It's not the slick marketers who set the tone at this conference, but the founders. Their involvement and affinity with science and technology is perceptible and provides the pillars upon which the event stands.

*Dr. Mathias Lemmens,  
Senior Editor, GIM International, The Netherlands, 2010*





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### Contacts

#### Organizing Committee

JSC Racurs, Russia

13A, Yaroslavskaya Str., 129366 Moscow

Mona Kagolkina, Andrey Pirogov

Tel.: +7 495 720 5127

conference@racurs.ru

Head of the organizing committee:

Victor Adrov

Tel.: +7 495 720 5127

adrov@racurs.ru

 Registration

<http://conf.racurs.ru/conf2019>

