

# FROM IMAGERY TO DIGITAL REALITY:



Earth Remote Sensing & Photogrammetry

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

October 16-19, 2017  
Hadera, Israel





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## Earth Remote Sensing & Photogrammetry

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

October 16-19, 2017, Hadera, Israel

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### Organizing Committee

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<http://conf.racurs.ru>



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### Dear colleagues!

The geographical map is one of the major advancements that man has developed over thousands of years. We have come a long way from Ptolemy's maps to have our modern-day, precise, digital maps. Over time, scientists have created and developed many ways of obtaining of spatial information.

More than 150 years have passed since the day French inventor Gaspard-Félix Tournachon took a photograph of Paris from an air balloon. This photograph started the phenomenon of remote sensing, which rapidly developed in the twentieth century and has continued to evolve in the twenty-first century.

The appearance of the Earth's satellite imagery, new technologies of aerial survey, laser scanning, and the use of digital methods of data collecting and processing in real time have significantly changed our attitude to spatial information.

These advancements, in turn, have led us to understand the necessity of development and to bring our annual conference, "From imagery to map: digital photogrammetric technologies," to a new level.

This year, the name of our annual conference was changed to "FROM IMAGERY TO DIGITAL REALITY: ERS & Photogrammetry" in order to reflect current trends in visualization and use of spatial information.

Digital reality is measured spatial information that is used in almost all directions of society's technological developments, be it land management, navigation, autonomous transport systems, smart cities, robotic technologies, and much more. Digital reality provides cartographic basis for the Internet of Things, and it allows building space-time models for sustainable development of society.

This new conference name significantly widens the theme of the conference. We are sure that it will contribute to the growth of interest in Earth remote sensing and photogrammetry technologies, attracting new participants to the conference. We are hopeful that this year's conference will allow us to be more interesting and fruitful.

*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.



## Partner

The **Israeli Society for Photogrammetry and Remote Sensing** (ILSPRS) is a non-governmental organization devoted to the development of cooperation for the advancement of photogrammetry and remote sensing and their applications.



## Supported by

- The Israel Society for Photogrammetry and Remote Sensing (ILSPRS)
- 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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## Gold Sponsor

**DigitalGlobe** (USA) is the world's leading provider of high-resolution Earth imagery, data and analysis. DigitalGlobe owns and operates the most agile and sophisticated constellation of high-resolution commercial earth imaging satellites.

Together, WorldView-1, GeoEye-1, WorldView-2, WorldView-3 and WorldView-4 are capable of collecting well over one billion square kilometers of quality imagery per year and offering intraday revisits around the globe.

For more information please visit: [digitalglobe.com](http://digitalglobe.com)



## Silver Sponsors

**Phase One Industrial** (Denmark) is a world-leading provider of medium format cameras and imaging solutions for aerial and industrial applications.

With a product line of aerial cameras, an impressive array of Rodenstock and Schneider-Kreuznach fast sync lenses, powerful controller complete with software, compatible with leading flight management systems and GPS receivers, Phase One offers solutions that streamline the entire capture and processing workflow and meet the exact needs of aerial imaging.

Phase One products and solutions are easily integrated into existing or new setups and offer maximum connectivity with systems for a wide range of applications, such as: 3D Cities, Lidar integration, UAV Solutions for Surveying and Inspection, 4 Band multi spectral solution for Agriculture, Forestry and Environmental Monitoring & Research, and more.

For more information please visit: [industrial.phaseone.com](http://industrial.phaseone.com)



**SI Imaging Services** (Korea) 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 80 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. SIIS can provide better service to customers by more active participation in daily KOMPSAT operation.

For more information please visit: [www.si-imaging.com](http://www.si-imaging.com)



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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.

#### **International cooperation in ERS, photogrammetry, and geomatics area**

It is well known that a wide exchange of information between specialists is very important for successful development of technologies. This section aims to form production cooperatives on the basis of the best practices and technological solutions. Standards, ways, and requirements that will allow specialists from different countries to communicate in one language will be discussed.

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 sixteen-year history, the conference has been held in fourteen and has hosted participants from thirty-five countries.

This year Israel was chosen as a venue of the conference. The importance of this state in the world scientific and technical achievements is undeniable; Israel is rightfully included in the Top-5 most innovative countries in the world in accordance with Bloomberg. The well-known Israel companies such as VisionMap, OFEK, Eternix, ImageSat, GeoCloud and many others occupy deserved place in the world geomatics market.

Venue&Hotel: RAMADA RESORT HADERA BEACH  
Menachem Begin Blvd, Hadera, 38100 IL



## Conference schedule

Monday October 16	Opening, plenary session, Welcome party
Tuesday October 17	Plenary session, business meetings, social activities
Wednesday October 18	Roundtable discussions, business meetings, conference Gala dinner
Thursday October 19	Sightseeing tour

## Deadlines

Early Bird registration — July 7, 2017  
Final registration — September 15, 2017  
July 28, 2017 — Report submission deadline  
September 1, 2017 — Paper submission deadline

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## Registration fees (USD)

Options	Early bird registration 07.07.2017	after 07.07.2017
<b>Full package - 5 days</b> (accommodation: 15-20.10, evening events and excursion - incl.)		
Single room	2085	2185
Bed in standard double room	1675	1775
<b>Full package - 3 days</b> (accommodation: 16-19.10, evening events - incl.)		
Single room	1545	1645
Bed in standard double room	1285	1385
<b>Delegate</b>	400	500
Without accommodation and evening events. Coffee-breaks and lunches are included.		
<b>One day ticket</b> Coffee-breaks and lunches are included.	150	
<b>Welcome Party</b> (October 16)	140	
<b>Gala Dinner</b> (October 18)	160	

*Registration fee for accompany person can be calculated upon the request.  
If other dates of accommodation are needed, please contact us to calculate it individually.  
Registration fees don't include 17% VAT for Israeli citizens.*

## Sponsorship packages (USD)

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

## Advertising opportunities (USD)

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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### 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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 Registration

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