

# FROM IMAGERY TO DIGITAL REALITY:



Earth Remote Sensing & Photogrammetry

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

September 24-27, 2018  
Crete, Greece





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#### Organizing Committee

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<http://conf.racurs.ru>



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### Dear colleagues!

Perhaps there is no more mysterious place in the world than Crete: hundreds of legends, thousands of traditions, and the birth and outcome of civilizations. The history of Crete is a history of the genius of human thought. For the first time, multistory buildings appeared here, along with natural and artificial lighting, sanitation, ventilation, heating, and paved roads—prototypes of the current “smart” cities. It was hardly possible without understanding how geographical space was arranged.

This year we set ourselves to the task of stretching the bridge between the achievements of the past, the present, and the future. We wanted to connect the history imprinted on the maps of Ptolemy, the labyrinths of the Palace of Knossos, and the photo of Gaspard-Félix Tournachon with the modern systems of digital reality, based on the photogrammetric processing of remote sensing data.

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 a cartographic basis for the Internet of Things, and it allows building space-time models for sustainable development of society.

This year the history of Racurs—the one and only organizer of the conference—will cross the twenty-five-year milestone. This is quite insignificant in comparison with the centuries-old history of Crete, but this quarter of the century fell into the most exciting period of development of remote sensing technologies.

We have something to be proud of. See you in Crete!

*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

#### **Yannis Yanniris** (Greece)

Official PHOTOMOD distributor in Greece and Cyprus Universities and certified trainer of PHOTOMOD.

Photogrammetry specialist for many years. Implemented in many big and small projects of Surveying, Photogrammetry, Photointerpretation, GIS, road design, Cadastral and IT. As also is a member (and elected once in the steering committee) of the Hellenic Association of Rural and Surveying Engineers (HARSE) that publishes the ATM magazine, member (and elected once in the steering committee) of the Greek Society of Photogrammetry.

Yannis Yanniris is a head of the publishing team of the ATM magazine of HARSE.



### 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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### Sponsors

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.

### Silver Sponsors

**DigitalGlobe** is the global leader in commercial high-resolution satellite imagery used by decision makers to better understand our changing planet in order to save lives, resources and time. Sourced from the world's leading constellation, our imagery solutions deliver unmatched coverage and capacity to meet our customers' most demanding mission requirements. Each day customers in defense and intelligence, public safety, civil agencies, map making and analysis, environmental monitoring, oil and gas exploration, infrastructure management, navigation technology, and providers of location-based services depend on DigitalGlobe data, information, technology and expertise to gain actionable insight. DigitalGlobe is a business unit of Maxar Technologies, a U.S. operating company (NYSE: MAXR; TSX: MAXR). For more information visit [www.DigitalGlobe.com](http://www.DigitalGlobe.com).



A MAXAR COMPANY

**TerraLink** is a leading international IT and business consulting company providing reception, processing and analysis of spatial data from remote sensing satellites. Being an official distributor of the leading operators of remote sensing satellites TerraLink helps its customers to receive remote sensing data of different resolution from both optical and radar satellites. Applying of remote sensing data TerraLink provides a wide range of industrial solutions including real-time monitoring, topographic and thematic maps. For more information please visit: [terralink-global.com](http://terralink-global.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.

### **From idea to worldwide recognition – Racurs celebrates twenty-five-year**

This year the history of Racurs — the one and only organizer of the conference — will cross the twenty-five-year milestone. At this section we will speak about the history of Racurs and PHOTOMOD, how developers and users gained experience, where the technologies of PHOTOMOD family move. We have something to be proud of.

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.

Greece is a country endowed with mild climate, amazing beauty of nature, delightful landscapes, including crystal-clear seas, green mountains and beautiful beaches.

Crete is the largest island in Greece, washed by three seas: Cretan in the north, Libyan in the south, Ionian in the west. The island's landmark are stunning beaches, high mountains, Byzantine monasteries and, of course, the famous Minotaur Labyrinth.



Venue&Hotel: Nana beach  
700 14 Hersonissos P.O BOX 20, Crete-Greece  
Tel.: 0030 2897030100, [www.nanabeach.gr](http://www.nanabeach.gr)

## Conference schedule

|                           |  |
|---------------------------|--|
| Monday<br>September 24    | Opening, plenary session,<br>Welcome party                           |
| Tuesday<br>September 25   | Plenary session, business meetings, social<br>activities             |
| Wednesday<br>September 26 | Roundtable discussions, business meetings,<br>conference Gala dinner |
| Thursday<br>September 27  | Sightseeing tour   |

## Deadlines

Early Bird registration — June 22, 2018  
Final registration — September 7, 2018  
Abstracts and papers  
August 1, 2018 — Report submission deadline  
August 24, 2018 — Paper submission deadline

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## Registration fees (Euro)

| Options  | Early bird registration<br>22.06.2018 | after 22.06.2018 |
|--|---------------------------------------|------------------|
| <b>Full package - 5 days</b><br>(accommodation: 23-28.09, evening events and excursion - incl.)      |                                       |                  |
| Single room  | 1530                                  | 1630             |
| Bed in standard double room  | 1315                                  | 1415             |
| <b>Full package - 3 days</b><br>(accommodation: 23-26.09, Welcome Party - incl.)                     |                                       |                  |
| Single room  | 900                                   | 1000             |
| Bed in standard double room  | 770                                   | 870              |
| <b>Delegate</b><br>Without accommodation and evening events. Coffee-breaks and lunches are included. | 450                                   |                  |
| <b>One day</b><br>Coffee-breaks and lunches are included.  | 150                                   |                  |
| <b>Welcome Party</b> (September 24)  | 140                                   |                  |
| <b>Gala Dinner</b> (September 26)  | 160                                   |                  |

*Coffee-breaks and lunches are included for all options. All Inclusive system.  
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.*

## Sponsorship packages (Euro)

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

## Advertising opportunities (Euro)

|  |         |
|--|---------|
| 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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