

Modern societies are highly dependent on the continuous operation of critical infrastructures that ensure the supply of crucial goods and services. These include amongst others power supply, drinking water supply, information and communication technologies or waste disposal. Disruptions may have rapid repercussions for the population and the basis of its livelihood and can affect other critical infrastructures through domino effects: a large scale power blackout will also disrupt the water supply, telecommunications, and rail transport.

The utilization of space nevertheless also presents new challenges. In a world where the benefits of space permeate almost every facet of our lives, the growing dependence on space systems equates to increasing vulnerabilities. Furthermore, its common application by increasing number of states and non-state entities raise critical questions on the nature of current space governance and policy.

In the context of Space Agenda 2030, the 7<sup>th</sup> Conference on Space Systems as Critical Infrastructure attempts to address some of the tensions mentioned above, in order to build a common rationale and straightforward understanding of the ways in which short and long term space-related action should be framed for the benefit of all actors involved.

## CONTACT

For any inquiries, any individual request or further information regarding transportation or accommodation details, please contact Ms. Ulpia Botezatu at [ulpia.botezatu@rosa.ro](mailto:ulpia.botezatu@rosa.ro), tel: +4(0) 748 956 958.

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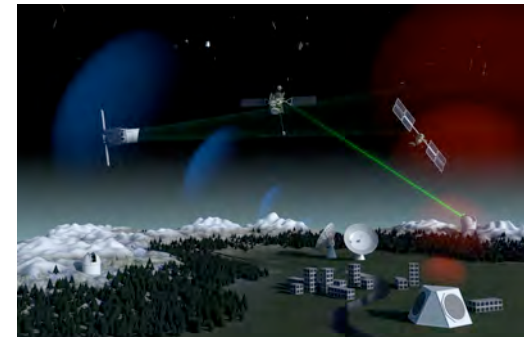
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## Call for Papers

7<sup>th</sup> IAA Conference  
on Space Systems as  
Critical  
Infrastructure  
August 2-3, 2018  
Mamaia, Black Sea,  
Romania



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## Ways, Means, Resilience



Romanian Space Agency  
&

International Academy of  
Astronautics



## CALL FOR PAPERS

Romanian Space Agency and the International Academy of Astronautics invites papers for the 7<sup>th</sup> conference on Space Systems as Critical Infrastructure, which will take place in Mamaia, Romania, August 2-3, 2018.

Abstracts should be in English and should include the symposium topic addressed, the problem explored, the methodology used, results and conclusions. A one-page, single-spaced abstract of no less than 300 and no more than 500 words, must be received by **July 20, 2018** at [conference@iaamail.org](mailto:conference@iaamail.org).

The conference will be held in English.

## OBJECTIVES

Space systems have become key enablers for a wide variety of commercial, scientific and military applications. The rapid growth of their capabilities has offset some of the size of the required investment and new developments promise an even greater reduction in the cost of space infrastructure. As such, some of the extant space systems have become deeply embedded in the functioning of advanced societies, supporting economies, lifestyles and governance processes. The increasing dependence on certain space systems places them firmly in the area of critical infrastructure, whose disruption or destruction would generate lasting damage. This inclusion into critical infrastructure theory is even more warranted as space systems have become a technological backbone for existing recognized critical infrastructures, such as energy, transportation, administration and others. The

reliance of infrastructure systems-of-systems on space based command, coordination and control capabilities during normal functioning, but especially during emergency and crisis situation management processes, means that space systems fulfil the requirements for critical status.

Areas of interest include, but are not limited to

- dependency of critical infrastructure sectors on space systems: Water, Food, Agriculture, ICT, Transport, Financial, Health, Energy, Nuclear Industry, Chemical Industry
- external threats of space critical infrastructure: space weather, atmosphere, natural cosmic debris, artificial space debris, natural terrestrial debris
- local threats of space critical infrastructure on: electronic interference, laser attack on satellite sensors destruction, electromagnetic pulse from a nuclear explosion, cyber attacks

## SCHEDULE

July 1, 2018	Call for Papers
<b>July 20, 2018</b>	<b>Abstracts Due</b>
July 23, 2018	Final Announcement
July 31, 2018	Final paper due
August 2-3, 2018	Conference
November 2018	Proceedings

## TRAVEL & TRANSPORTATION

Transportation service will be provided from Henri Coanda International Airport to the venue and back (230 km, aprox. 3h by car) on a

schedule that will be available for the registered participants.

## ACCOMODATION INFORMATION

Venue: **Zenith – Conference & Spa Hotel**

Phone: +40 372 418 499

Mobile: +40 732 121 601

E-mail: [conference@zenithhotel.eu](mailto:conference@zenithhotel.eu)

[www.zenithhotel.eu](http://www.zenithhotel.eu)

<http://www.topinternational.com>

A limited number of rooms have been pre-booked, participants wishing to benefit from the block booking rates are invited to contact the hotel, specifying the name of the event.

## REGISTRATION

To partially offset the cost of the Symposium there is a registration fee of €80 that covers admission to the sessions, the symposium digest, a copy of the proceedings published after the symposium, coffee breaks and lunch. All participants are invited to use the Registration Page of the Conference from the Romanian Space Agency (ROSA) Conference System: <http://events.rosa-rc.ro/>

**Registration deadline: July 31, 2018**

The payment of the registration fee can be made:

- by credit card or bank transfer;
- on-site at the Registration Desk.

For inquiries regarding payment, please contact [conference@rosa.ro](mailto:conference@rosa.ro).

Participants are advised to indicate their flight details when registering.