

EARTH OBSERVATION SYMPOSIUM (B1)

Big Data, Data Cubes and new platforms to exploit large-scale, multi-temporal EO Data (6)

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SPACE BIG DATA: LAW & POLICY RECOMMENDATIONS FOR INTERNATIONAL COOPERATION IN INCREASING BENEFITS FROM SPACE DATA APPLICATIONS

Abstract

The increasing number of launched satellites along with the need for fast and accurate information worldwide, is leading to exponential growth of the space data generated and distributed. Big data from space includes not only remote sensing and Earth observation images, but involves a great amount of data transmitted through space technology. Nevertheless, the existing regulatory framework is either partially covering or not addressing this field at all. At the moment, there is no legislation dedicated to or related with space big data. The relevant laws constitute a patchwork of international and domestic space legislation, along with regional and national data-related laws.

Worldwide, policy initiatives are required in order to promote the growth of the space big data sector and promote the advancement of space applications. At the same time, there is a need for regulatory framework that would facilitate the generation, process and dissemination of space data, according to the current technological standards and market needs.

The purpose of this paper is to discuss the regulatory challenges related to space big data. It is aiming at proposing legal and policy solutions for the effective regulation and development of this field. Towards this end, it will address data privacy, data protection, as well as export control issues related to big data from space.