AIT Series

Trends in earth observation

Volume 2

Planet Care from Space

Edited by Dessena M.A., Melis M.T and Rossi P.

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Maria Antonietta Dessena, Maria Teresa Melis and Patrizia Rossi

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Preface

The 10th International Conference "Planet Care from Space", set as a virtual event in Cagliari, Sardinia, is the natural continuation of the AIT mission to achieve a wider diffusion of Remote Sensing technologies, techniques, and culture, after the Palermo and Firenze events in 2016 and 2018 respectively.
We are therefore proud, after the 2020 halt due to Covid-19, to introduce a new Volume of the Series of "Trends in Earth Observation", focused on Geo-Envi-Hazards and Climate Change investigations, but including the complete range of EO state-of-the-art and its applications.

AIT is continuing to collaborate with the Copernicus world, ASITA, EARSeL, EARSC, ISPRS, Universities and private and public Agencies to provide its partners with the widest dynamic, scientific and operational information, always with a synoptic and integrated point of view.

During the last decades, EO has gone through various cultural steps.
When our association was born (between 1986 and the early '90s) the questions we received, the most were about what we could actually do with RS. A long, often completely theoretical list, was the most common answer. Then, EO was gradually seen as the solution for any territorial problem, namely through EO algorithms or classifications that were suitable for the needs of the user. Furthermore, our technology has recently been considered an important component of several Artificial Intelligence procedures, especially analytic processes through big data treatments.

Nowadays, the social situation created by the pandemic and the increasingly dire and visible effects of climate changes are generating a new political and social awareness, (such as the various worldwide national plans of recovery and resilience, like the one of the EU) which is bringing forth to us, scientists, operators, administrators, and simple citizens the awareness of the real priorities of protecting and safeguard the health of the planet and the continuation of the life of the human species.

So, dear colleagues, this is the core of our mission: to offer powerful tools to anyone who senses the need to protect and safeguard the biosphere and the human lives, indicating sustainable exploitations through synoptic, georeferenced and accessible "consolidated applications".
Our duty will be to collect, show, map, measure and calculate any dangerous or "hidden situations" that are unsustainable in any natural, semi-natural and human areas and activities.

The diffusion of this volume to others than our usual community, such as politicians, managers and decision-makers could help to speed-up the achievements of this new Earth Observation service position.
Special thanks to the Conference organization: Maria Teresa Melis and Maria Antonietta Dessena who spent their effort with passion and successful, the entire AIT Board and all the friends who have contributed to this result.

AIT President
Livio Rossi

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