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Preface

ASITA, the Italian Federation of Scientific Associations for Territorial and Environmental Information, for over two decades has brought together scholars, public administrators, and professionals with the Italian Conference on Geomatics and Geospatial Technologies. After the decision to cancel the 2020 event, in this time of COVID-19 global disruption and uncertainty, the Scientific and Executive Committees of ASITA committed to hold the conference online. The traditional organization was significantly modified, making the event a distributed one along a longer period. Five thematic days, one per week, were therefore programmed. They took place between July 1 and July 23, 2021, under the name of Asita Academy 2021. The decision proved to be successful. Communities committed to similar topics were attracted by the highly-focused program, which was designed to gather thematically connected contributions for presentation on the same day. Authors and audience were therefore able to meet and discuss advances in geomatics theory and practice in their specific field of interest.

A total of about four hundred people connected to the online sessions, with an average number of participants per session of about a hundred people.

In total, 140 contributions were submitted to the conference. During a first review round, the Program Committee selected 36 papers that were consistent with the CCIS proceedings requirements. These were then submitted to a second round of evaluation by national and international reviewers in a single-blind review process. Finally, 28 papers were recommended for the publication in this volume.

As editors, we thank all reviewers for their support during the review process and, more broadly, the researchers whose work and commitment can be found in these proceedings.

While organizing this volume, chapters were built considering the different disciplines, methodologies, and research approaches within the ASITA Federation — Cartography, Geodesy, Remote Sensing, Photogrammetry, Geodatabase, GIS, and so on. Five chapters were finally populated, namely Remote Sensing Applications (five papers); Geomatics and Natural Hazards (six papers); Geomatics for Cultural Heritage and Natural Resources (four papers); Sensors Performance and Data Processing (eight papers); and Geomatics and Land Management (five papers).

In light of the accepted contributions, the editors proudly recognize that the volume is successfully compliant with ASITA's goals. It gathers solid and up-to-date scientific papers that move, in most cases, towards a high-level technology transfer. The book provides insights into the current and ongoing experiences and applications in geomatic tools and skills in Italy. The resulting framework is an encouraging one that certifies that proper competences can be found to support the economic recovery that is warmly encouraged and expected at both national and global level in response to the COVID-19 pandemic.

Geomatics is proving, once more, that it can certainly provide a significant and needed contribution in supporting territorial analysis, land planning, and cultural heritage

representation and management, increasingly consistent with the green transition and resilience requirements cited in this specific historical moment.

The editors wish to thank the dedicated Program Committee members and all the other reviewers for their valuable contributions.

September 2021

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