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Cédric Grueau · Jorge Gustavo Rocha (Eds.)

Geographical Information Systems Theory, Applications and Management

First International Conference, GISTAM 2015
Barcelona, Spain, April 28–30, 2015
Revised Selected Papers

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Preface

The present book includes extended and revised versions of a set of selected papers from the First International Conference on Geographical Information Systems Theory, Applications and Management (GISTAM 2015), held in Barcelona, Spain, during April 28–30, 2015, which was sponsored by the Institute for Systems and Technologies of Information, Control and Communication (INSTICC) in cooperation with the ACM SIGSPATIAL, the Global Spatial Data Infrastructure Association (GSDI), the Canadian Institute of Geomatics and Cartographic, the Geological Institute of Catalonia (ICGC), and the International Society for Photogrammetry and Remote Sensing (ISPRS). GISTAM 2015 was also technically co-sponsored by the IEEE Geoscience and Remote Sensing Society.

The purpose of the International Conference on Geographical Information Systems Theory, Applications and Management was to create a meeting point for researchers and practitioners addressing new challenges in geospatial data sensing, observation, representation, processing, visualization, sharing, and managing, in all aspects concerning information communication and technologies (ICT) as well as management information systems and knowledge-based systems.

GISTAM 2015 received 45 paper submissions from 25 countries in all continents, of which 24 % were presented at the conference as full papers, and their authors were invited to submit extended versions of their papers for this book. In order to evaluate each submission, a double-blind review was performed by the Program Committee. Finally, only the ten best papers were included in this book.

We would like to highlight that GISTAM 2015 also included four plenary keynote lectures, given by internationally distinguished researchers, namely: Robert Laurini (INSA, University of Lyon, France), José Bioucas Dias (Telecommunications Institute, Portugal), Jordi Corbera (Geological and Cartographic Institute of Catalonia, Spain), and Ed Parsons (Google UK Ltd., UK). We must acknowledge the invaluable contribution of all keynote speakers, who, as renowned researchers in their areas, presented cutting-edge work, thus contributing to enriching the scientific content of the conference.

We must thank the authors, whose research and development efforts are recorded here. We also thank the GISTAM local chair Joaquín Huerta, whose competence was essential for ensuring the technical quality of the conference and whose collaboration was very much appreciated. The knowledge and diligence of the reviewers were essential for the quality of the papers presented at the conference and published in this book. Finally, a special thanks to all members of the INSTICC team, whose involvement was fundamental for the success of this conference.

April 2015

Cédric Grueau
Jorge Gustavo Rocha

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José Bioucas Dias

Jordi Corbera

Ed Parsons

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Telecommunications Institute, Portugal

Geological and Cartographic Institute of Catalonia,
Spain

Google UK Ltd., UK

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