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MAPPING AND THE CITIZEN SENSOR

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The proliferation of inexpensive and highly mobile and location aware devices together with Web 2.0 technology have fostered the emergence of the citizen as a source of data. Mapping presently benefits from vast amounts of spatial data as well as people able to provide observations of geographic phenomena, which can inform map production, revision and evaluation.

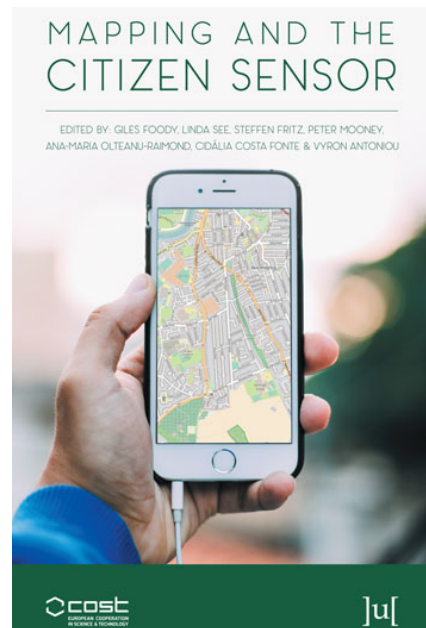
The great potential of these developments is, however, often limited by concerns. The latter span issues from the nature of the citizens through the way data are collected and shared to the quality and trustworthiness of the data. This book reports on some of the key issues connected with the use of citizen sensors in mapping. It arises from a European Co-operation in Science and Technology (COST) Action, which explored issues linked to topics ranging from citizen motivation, data acquisition, data quality and the use of citizen derived data in the production of maps that rival, and sometimes surpass, maps arising from authoritative agencies.

ABOUT THE CONTRIBUTORS

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crowdsourcing tool for improving global land cover. His research interests include earth observation, citizen science, crowdsourcing and volunteered geographic information.

Peter Mooney is Lecturer in Computer Science at Maynooth University in Ireland. He has been involved in Volunteered Geographic Information (VGI) related research for over a decade. Specifically, his research interests in this domain focus on computational approaches to VGI data quality, citizen contributor behavior patterns, and government and policy maker usage of VGI.

Ana-Maria Olteanu-Raimond is a Researcher in Geomatics at the COGIT team of the Research Laboratory of French National Mapping Agency (IGN-France). Her research topics are focused on mechanisms to produce crowd and community sourced data, spatial data quality assessment, spatial qualitative representation, and imperfect data fusion.

Cidália C. Fonte has a PhD in Geomatic Engineering. She is an Assistant Professor at the Department of Mathematics, Faculty of Sciences and Technology, University of Coimbra, Portugal, and a researcher and member of the board of directors of the Institute for Systems Engineering and Computers at Coimbra.

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