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Descrizione fisica	1 online resource (viii, 464 pages) : illustrations (some colour), colour maps
Collana	Open Access e-Books Knowledge Unlatched
Disciplina	910.285
Soggetti	Geographic information systems Human computation User-generated content
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
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Nota di contenuto	Chapter 1. Introduction -- Chapter 2. The nature of volunteered geographic information / Cristina Capineri -- Chapter 3. Why is participation inequality important? / Mordechai (Muki) Haklay -- Chapter 4. Social media geographic information : why social is special when it goes spatial? / Michele Campagna -- Chapter 5. Handling quality in crowdsourced geographic information / Laura Criscuolo [and seven others] -- Chapter 6. Data quality in crowdsourcing for biodiversity research : issues and examples / Clemens Jacobs -- Chapter 7. Semantic challenges for volunteered geographic information / Andrea Ballatore -- Chapter 8. Quality analysis of the Parisian OSM toponyms evolution / Vyron Antoniou, Guillaume Touya and Ana-Maria Raimond -- Chapter 9. Tackling the thematic accuracy of areal features in OpenStreetMap / Ahmed Loai Ali -- Chapter 10. Enhancing the management of quality of VGI : contributions from context and task modelling / Benedicte Bucher, Gilles Falquet, Claudine Metral and Rob Lemmens -- Chapter 11. A methodological toolbox for exploring

Sommario/riassunto

"This book focuses on the study of the remarkable new source of geographic information that has become available in the form of user-generated content accessible over the Internet through mobile and Web applications. The exploitation, integration and application of these sources, termed volunteered geographic information (VGI) or crowdsourced geographic information (CGI), offer scientists an unprecedented opportunity to conduct research on a variety of topics at multiple scales and for diversified objectives. The Handbook is organized in five parts, addressing the fundamental questions: What motivates citizens to provide such information in the public domain, and what factors govern/predict its validity?What methods might be used to validate such information? Can VGI be framed within the larger domain of sensor networks, in which inert and static sensors are

replaced or combined by intelligent and mobile humans equipped with sensing devices? What limitations are imposed on VGI by differential access to broadband Internet, mobile phones, and other communication technologies, and by concerns over privacy? How do VGI and crowdsourcing enable innovation applications to benefit human society? Chapters examine how crowdsourcing techniques and methods, and the VGI phenomenon, have motivated a multidisciplinary research community to identify both fields of applications and quality criteria depending on the use of VGI. Besides harvesting tools and storage of these data, research has paid remarkable attention to these information resources, in an age when information and participation is one of the most important drivers of development. The collection opens questions and points to new research directions in addition to the findings that each of the authors demonstrates. Despite rapid progress in VGI research, this Handbook also shows that there are technical, social, political and methodological challenges that require further studies and research."