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Titolo	European handbook of crowdsourced geographic information // edited by Cristina Capineri, Muki Haklay, Haosheng Huang, Vyron Antoniou, Juhani Kettunen, Frank Ostermann and Ross Purves
Pubbl/distr/stampa	London : , : Ubiquity Press, , 2016 ©2016
ISBN	1-909188-81-6 1-909188-80-8
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
Note generali	"COST European Cooperation in Science and Technology"--Cover.
Nota di bibliografia	Includes bibliographical references.
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

collections of textually annotated georeferenced photographs / Ross S. Purves and William A. Mackaness -- Chapter 12. Gaining knowledge from georeferenced social media data with visual analytics / Gennady Andrienko and Natalia Andrienko -- Chapter 13. Head/tail breaks for visualization of city structure and dynamics / Bin Jiang -- Chapter 14. Querying VGI by semantic enrichment / Rob Lemmens, Gilles Falquet, Stefano De Sabbata, Bin Jiang and Benedicte Bucher -- Chapter 15. Extracting location information from crowd-sourced social network data / Pinar Karagoz, Hali Oguztuzun, Ruket Cakici, Ozer Ozdikis, Kezban Dilek Onal and Meryem Sagcan -- Chapter 16. Spatial and temporal sentiment analysis of Twitter data / Zhiwen Song and Jianhong (Cecilia) Xia -- Chapter 17. Social networks VGI : Twitter sentiment analysis of social hotspots / Dario Stojanovski, Ivan Chorbev, Ivica Dimitrovski and Gjorgji Madjarov -- Chapter 18. Research on social media feeds : a GIScience perspective / Enrico Steiger, Rene Westerholt and Alexander Zipf -- Chapter 19. Changing role of citizens in national environmental monitoring / Juhani Kettunen, Jari Silander, Matti Lindholm, Maiju Lehtiniemi, Outi Setala and Seppo Kaitala -- Chapter 20. On the contribution of volunteered geographic information to land monitoring efforts / Jamal Jokar Arsanjani and Cidalia C Fonte -- Chapter 21. Discussing the potential of crowdsourced geographic information for urban areas monitoring using the Panoramio initiative / Flavio Lupia and Jacinto Estima -- Chapter 22. AtrapaelTigre.com : enlisting citizen-scientists in the war on tiger mosquitoes / Aitana Oltra, John R.B. Palmer and Frederic Bartumeus -- Chapter 23. Crowdsourcing geographic information for disaster management and improving urban resilience : an overview of recent developments and lessons learned / Joao Porto de Albuquerque, Melanie Eckle, Benjamin Herfort and Alexander Zipf -- Chapter 24. Crowdsourcing for individual needs : the case of routing and navigation for mobility-impaired persons / Alexander Zipf, Amin Mobasheri, Adam Rousell and Stefan Hahmann -- Chapter 25. Smart timetable service based on crowdsensed data / Karoly Farkas -- Chapter 26. Mobile crowd-sensing in the smart city / Imre Lendak -- Chapter 27. Mobile crowd sensing for smart urban mobility / Dragan Stojanovic, Bratislav Predic and Natalija Stojanovic -- Chapter 28. Using mobile crowdsourcing and geotagged social media data to study people's affective responses to environments / Haosheng Huang and Georg Gartner -- Chapter 29. Integrating authoritative and volunteered geographic information for spatial planning / Pierangelo Massa and Michele Campagna -- Chapter 30. A proposed crowdsourcing cadastral model : taking advantage of previous experience and innovative techniques / Sofia Basiouka and Chryssy Potsiou -- Chapter 31. Modelling the world in 3D from VGI/crowdsourced data / Hongchao Fan and Alexander Zipf.

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## 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."

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