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| Autore                  | Shi Wenzhong   |
| Titolo                  | Urban Informatics // edited by Wenzhong Shi, Michael F. Goodchild, Michael Batty, Mei-Po Kwan, Anshu Zhang   |
| Pubbl/distr/stampa      | Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2021   |
| ISBN                    | 981-15-8983-6  |
| Edizione                | [1st ed. 2021.]  |
| Descrizione fisica      | 1 online resource (928 pages)  |
| Collana                 | The Urban Book Series, , 2365-7588   |
| Classificazione         | COM018000COM069000SCI030000SOC015000   |
| Altri autori (Persone)  | GoodchildMichael F<br>BattyMichael<br>KwanMei-po<br>ZhangAnshu   |
| Disciplina              | 307.76   |
| Soggetti                | Human geography<br>Computer networks<br>Application software<br>Geography<br>Human Geography<br>Computer Communication Networks<br>Computer and Information Systems Applications   |
| Lingua di pubblicazione | Inglese  |
| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| Nota di contenuto       | Urban Science and Systems -- Urban Sensing -- Urban Big Data Infrastructure -- Urban Computing -- Urban Problems and Possible Solutions -- Perspectives for the Future.  |
| Sommario/riassunto      | This open access book is the first to systematically introduce the principles of urban informatics and its application to every aspect of the city that involves its functioning, control, management, and future planning. It introduces new models and tools being developed to understand and implement these technologies that enable cities to function more efficiently – to become ‘smart’ and ‘sustainable’. The smart city has quickly emerged as computers have become ever smaller to the point where they can be embedded into the very fabric of the city, as well as being central to new ways in which the population can communicate and act. When cities are wired in this way, they have the |

potential to become sentient and responsive, generating massive streams of 'big' data in real time as well as providing immense opportunities for extracting new forms of urban data through crowdsourcing. This book offers a comprehensive review of the methods that form the core of urban informatics from various kinds of urban remote sensing to new approaches to machine learning and statistical modelling. It provides a detailed technical introduction to the wide array of tools information scientists need to develop the key urban analytics that are fundamental to learning about the smart city, and it outlines ways in which these tools can be used to inform design and policy so that cities can become more efficient with a greater concern for environment and equity.

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