

1. Record Nr.	UNINA9910786896703321
Autore	Eagle Nathan
Titolo	Reality mining : using big data to engineer a better world // by Nathan Eagle and Kate Greene
Pubbl/distr/stampa	Cambridge, Massachusetts : , : MIT Press, , [2014] [Piscataway, New Jersey] : , : IEEE Xplore, , [2014]
ISBN	0-262-32457-1 0-262-52983-1 0-262-32456-3
Descrizione fisica	1 online resource (207 p.)
Disciplina	006.3/12
Soggetti	Data mining Big data Computer networks - Social aspects Information science - Social aspects Information science - Statistical methods
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Contents; Introduction; I The Individual (One Person); 1 Mobile Phones, Sensors, and Lifelogging: Collecting Data from Individuals While Considering Privacy; 2 Using Personal Data in a Privacy-Sensitive Way to Make a Person's Life Easier and Healthier; II The Neighborhood and the Organization (10 to 1,000 People); 3 Gathering Data from Small Heterogeneous Groups; 4 Engineering and Policy: Building More Efficient Businesses, Enabling Hyperlocal Politics, LifeQueries, and Opportunity Searches; III The City (1,000 to 1,000,000 People) 5 Traffic Data, Crime Stats, and Closed-Circuit Cameras: Accumulating Urban Analytics 6 Engineering and Policy: Optimizing Resource Allocation; IV The Nation (1 Million to 100 Million People); 7 Taking the Pulse of a Nation: Census, Mobile Phones, and Internet Giants; 8 Engineering and Policy: Addressing National Sentiment, Economic Deficits, and Disasters; V Reality Mining the World's Data (100 Million to 7 Billion People); 9 Gathering the World's Data: Global Census, International Travel and Commerce, and Planetary-Scale

Sommario/riassunto

Big Data is made up of lots of little data: numbers entered into cell phones, addresses entered into GPS devices, visits to websites, online purchases, ATM transactions, and any other activity that leaves a digital trail. Although the abuse of Big Data -- surveillance, spying, hacking -- has made headlines, it shouldn't overshadow the abundant positive applications of Big Data. In *Reality Mining*, Nathan Eagle and Kate Greene cut through the hype and the headlines to explore the positive potential of Big Data, showing the ways in which the analysis of Big Data ("Reality Mining") can be used to improve human systems as varied as political polling and disease tracking, while considering user privacy. Eagle, a recognized expert in the field, and Greene, an experienced technology journalist, describe Reality Mining at five different levels: the individual, the neighborhood and organization, the city, the nation, and the world. For each level, they first offer a nontechnical explanation of data collection methods and then describe applications and systems that have been or could be built. These include a mobile app that helps smokers quit smoking; a workplace "knowledge system"; the use of GPS, Wi-Fi, and mobile phone data to manage and predict traffic flows; and the analysis of social media to track the spread of disease. Eagle and Greene argue that Big Data, used respectfully and responsibly, can help people live better, healthier, and happier lives.
