1. **Record Nr.**   UNINA9910254002603321

Titolo   Planning Support Science for Smarter Urban Futures / / edited by Stan Geertman, Andrew Allan, Chris Pettit, John Stillwell

Pubbl/distr/stampa   Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017

ISBN   3-319-57819-7

Edizione   [1st ed. 2017.]

Descrizione fisica   1 online resource (XI, 509 p. 208 illus., 100 illus. in color.)

Collana   Lecture Notes in Geoinformation and Cartography, , 1863-2246

Disciplina   307.1216

Soggetti   Geographic information systems
Urban geography
Computer simulation
Climatic changes
Urban economics
Environmental health
Geographical Information Systems/Cartography
Urban Geography / Urbanism (inc. megacities, cities, towns)
Simulation and Modeling
Climate Change Management and Policy
Urban Economics
Environmental Health

Lingua di pubblicazione   Inglese

Formato   Materiale a stampa

Livello bibliografico   Monografia

Nota di bibliografia   Includes bibliographical references at the end of each chapters and index.

Nota di contenuto   Introduction to 'Planning Support Science for Smarter Urban Futures' -- Part 1 Planning Support Science -- Towards the Development of a Monitoring System for Planning Policy -- Urbanmetrics: An Algorithmic-(Para)metric Methodology for Analysis and Optimization of Urban Configurations -- Urban Activity Explorer: Visual Analytics and Planning Support Systems -- Social Sensing: The Necessary Component of Planning Support System for Smart City in the Era of Big Data -- Part 2 Smarter Urban Futures -- Opening the Search Space for the Design of a Future Transport System Using 'Big Data' -- Investigating Theoretical Development for Integrated Transport and Land Use Modelling Systems

-- The Mode Most Traveled: Transportation Infrastructure Implications and Policy Responses -- An Integrated Demand and Carbon Impact Forecasting Approach for Residential Precincts -- Does Activity Fulfil Aspiration? A Contextual Comparison of Smart City Applications in Practice.

Sommario/riassunto	This book offers a selection of the best articles presented at the CUPUM (Computers in Urban Planning and Urban Management) Conference, held in the second week of July 2017 at the University of South Australia in Adelaide. It provides a state-of-the-art overview of the availability and application of planning support systems (PSS) in the context of smart cities, big data, and urban futures. Rapid advances in computing, information, communication and web-based technologies are reaching into all facets of urban life, creating new and exciting urban futures. With the universal adoption of networked computing technologies, data generation is now so massive and all pervasive in society that it offers unprecedented technological solutions for planning and managing urban futures. These technologies are essential to effective urban planning and urban management in an increasingly challenging world, with socially disruptive changes, more complex and sophisticated urban lives and the need for resilience to deal with the possibility of adverse future environmental events and climate change. The book discusses examples of these technologies which encompass, inter alia: 'smart urban futures', where cities with myriad sensors are networked with communication technologies that enable the city planners to monitor well-being and be responsive to citizens' needs to allow dynamic management in real-time; PSS that encompass new hardware, develop new indicators, applications and innovative ways of facilitating public and community involvement in the management and planning of urban areas; and urban modelling that draws on theory and the richness of data from the growing range of urban sensing and communication technologies to build a better understanding of urban dynamics, trends and 'what-if' scenario investigations, and to provide better tools for planning and policymaking.