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- Introduces systematically the principles of urban informatics, including urban system theories, techniques, and tools for urban big data acquisition, infrastructure, and analytics, as well as focusing these new tools on urban problems and possible solutions
- Brings together over 140 world-leading researchers and 50 institutions across a wide range of scientific disciplines to deliver a collaborative understanding, technologies, and solutions in the field of urban informatics
- Integrates highly diverse tools and techniques associated with the analysis of the smart city, but often dealt with separately, under the rubric of geographic information science
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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.

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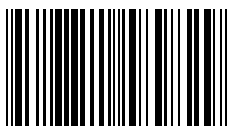
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