1. Record Nr.   UNINA9910637715103321

Titolo   Knowledge Management for Regional Policymaking / / edited by Robert Laurini, Peter Nijkamp, Karima Kourtit, Louafi Bouzouina

Pubbl/distr/stampa   Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022

ISBN   9783031156489
303115648X

Edizione   [1st ed. 2022.]

Descrizione fisica   1 online resource (257 pages)

Disciplina   388.015118

Soggetti   Geography
Geographic information systems
Artificial intelligence
Knowledge management
Sustainability
Regional Geography
Geographical Information System
Artificial Intelligence
Knowledge Management

Lingua di pubblicazione   Inglese

Formato   Materiale a stampa

Livello bibliografico   Monografia

Nota di contenuto   Preface -- Part I: Introduction -- Chapter 1. Promises of Artificial Intelligence for Urban and Regional Planning and Policymaking(Robert Laurini) -- Part II: Advanced Approaches -- Chapter 2. Regional Knowledge: Sources, Representation and Management(Gloria Bordogna) -- Chapter 3. Employing Case-Based Reasoning to Provide Knowledge for Sustainable Regional Development(Bokolo Anthony Jnr) -- Chapter 4. Knowledge Management at Multiple Decision Levels. A Use Case about COVID-19 Pandemic(Fabien Duchateau and Franck Favetta) -- Chapter 5. A Framework to Represent Subjectivity and Objectivity of Spatial Knowledge using Configurational Ontology(Antonio Rinaldi) -- Chapter 6. Semantic Analysis of Feedforward Knowledge for Regional Policymaking(Robert Laurini) -- Part III: Regional Knowledge on the Move -- Chapter 7. ICT Key Points in Emerging Spatial Knowledge

Systems(Monica Sebillo) -- Chapter 8. No "prêt à porter" but a multiscalar perspective to smart cities(Geoffrey Caruso, Denise Pumain and Isabelle Thomas) -- Chapter 9. Smart cities: Missing the stigmergy? (Michael Mehaffy and Peter Elmlund) -- Chapter 10. Blockchain Systems for Smart Cities and Regions: An Illustration of Self-Sovereign Data Governance(Ana Balan, Sînic Alboaie, Karima Kourtit and Peter Nijkamp) -- Chapter 11. The Data-Driven Smart Region, Innovation and Sustainability(Salma Mhamed Hichri, Hanene Ben Ouada Jamoussi and Walid Keraani) -- Part IV: Research and Knowledge Agenda -- Chapter 12. Regional Knowledge Management and Sustainable Regional Development: In Quest of a Research and Knowledge Agenda(Robert Laurini, Peter Nijkamp, Gloria Bordogna, Karima Kourtit, Fabien Duchateau, Antonio Rinaldi, Louafi Bouzouina, Michael E. Mehaffy and Bokolo Anthony Jr).

| Sommario/riassunto | The present publication focusses the attention on new avenues in regional information and knowledge management, while we will zoom in particularly on the potential promises and hurdles of digital technology. This digital challenge has already generated a wealth of implications in the area of smart or intelligent cities, but as yet far less has been achieved in the field of regional planning and regional science. There is clearly a need for a more systematic and wide-ranging assessment and presentation of emerging approaches and concepts in this field, for instance, in regard to principles (e.g. geographic rule modeling), methodologies (e.g. blockchain systems), data analytics (e.g. machine learning) and data governance (e.g. data sovereignty) of regional information and knowledge. Especially in our 'big data' era, a systematic, comprehensible and reliable acquisition, storage, sharing and handling of data (e.g. on the basis of systematic decomposition and filtering principles) is more needed than ever before. The present study seeks to present a selection of state-of-the-art contributions on advanced – often digitally-oriented – regional information and knowledge management foundations, principles and practices written by several experts in the field of spatial informatics. These contributions were collected with a view to the design of a comprehensive knowledge and research agenda, which was discussed during a brainstorm workshop in Lyon, France (October 2021). This book covers various fields of interest, such as GeoAI, knowledge modelling, IoT and scalability, space syntax, rule extraction, data governance and data self-sovereignty. It is concluded with a knowledge and research agenda outlining future endeavors in the field of the spatial information sciences (or spatial informatics). |