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Titolo	Landmarks : GIScience for Intelligent Services / / by Kai-Florian Richter, Stephan Winter
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Descrizione fisica	1 online resource (233 p.)
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Soggetti	Computers Geographic information systems Artificial intelligence Geography Psychology Information Systems and Communication Service Geographical Information Systems/Cartography Artificial Intelligence Geography, general Psychology, general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Introduction: What landmarks are, and why they are important -- Landmarks: A thought experiment -- Cognitive aspects: How people perceive, memorize, think and talk about landmarks -- Conceptual aspects: How landmarks can be described in data models -- Computational aspects: How landmarks can be observed, stored, and analysed -- Communication aspects: How landmarks enrich the communication between human and machine -- Conclusions: What is known and what is still challenging about landmarks.
Sommario/riassunto	This book covers the latest research on landmarks in GIS, including

practical applications. It addresses perceptual and cognitive aspects of natural and artificial cognitive systems, computational aspects with respect to identifying or selecting landmarks for various purposes, and communication aspects of human-computer interaction for spatial information provision. Concise and organized, the book equips readers to handle complex conceptual aspects of trying to define and formally model these situations. The book provides a thorough review of the cognitive, conceptual, computational and communication aspects of GIS landmarks. This review is unique for comparing concepts across a spectrum of sub-disciplines in the field. Portions of the ideas discussed led to the world’s first commercial navigation service using landmarks selected with cognitive principles. Landmarks: GI Science for Intelligent Services targets practitioners and researchers working in geographic information science, computer science, information science, cognitive science, geography and psychology. Advanced-level students in computer science, geography and psychology will also find this book valuable as a secondary textbook or reference.