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Collana	Information Systems and Applications, incl. Internet/Web, and HCI, , 2946-1642 ; ; 5266
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Soggetti	Data mining Earth sciences Application software Information storage and retrieval systems Multimedia systems Data Mining and Knowledge Discovery Earth Sciences Computer and Information Systems Applications Information Storage and Retrieval Multimedia Information Systems
Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references and author index.
Nota di contenuto	Query Responsive Index Structures -- Refining Topological Relations between Regions Considering Their Shapes -- Noisy Road Network Matching -- Detecting Topological Change Using a Wireless Sensor Network -- Uncovering Hidden Spatial Patterns by Hidden Markov Model -- Modeling Herds and Their Evolvements from Trajectory Data -- New Data Types and Operations to Support Geo-streams -- Turn to the Left or to the West: Verbal Navigational Directions in Relative and Absolute Frames of Reference -- Effect of Neighborhood on In-Network Processing in Sensor Networks -- Similarity-Based Information Retrieval and Its Role within Spatial Data Infrastructures -- Geosensor

Data Abstraction for Environmental Monitoring Application -- The 9?+?
-Intersection: A Universal Framework for Modeling Topological
Relations -- Decentralized Movement Pattern Detection amongst
Mobile Geosensor Nodes -- A Framework for Sensitivity Analysis in
Spatial Multiple Criteria Evaluation -- Reasoning on Spatial Relations
between Entity Classes -- Identifying Maps on the World Wide Web --
Improving Localization in Geosensor Networks through Use of Sensor
Measurement Data -- Simplest Instructions: Finding Easy-to-Describe
Routes for Navigation -- Road Networks and Their Incomplete
Representation by Network Data Models -- A Theory of Change for
Attributed Spatial Entities -- Delineation of Valleys and Valley Floors --
Single-Holed Regions: Their Relations and Inferences -- Validation and
Storage of Polyhedra through Constrained Delaunay Tetrahedralization
-- Ontology-Based Geospatial Data Query and Integration.

Sommario/riassunto

This book constitutes the refereed proceedings of the 5th International Conference on Geographic Information Science, GIScience 2008, held in Park City, UT, USA, in September 2008. The 24 revised full papers presented were carefully reviewed and selected from 77 submissions. Among the traditional topics addressed are spatial relations, geographic dynamics, and spatial data types. A significant number of papers deal with navigation networks, location-based services, and spatial information query and retrieval. Geo-sensors, mobile computing, and Web mapping rank among the important new directions.
