Böhlen / Jensen / Scholl

Spatio-Temporal Database Management

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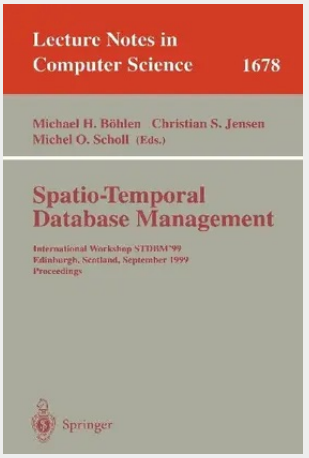
Thepapersincludedinthisvolumecoverdiverseaspectsofthemanagement ofsuchdata,andtheyhavebeenorganizedinto?vegroups:understanding andmanipulatingspatio-temporaldata;integration,exchange,andvisualization; query processing; index evaluation; and constraints and dependencies.

Understanding and Manipulating Spatio-Temporal Data.- A Spatio-Temporal Taxonomy for the Representation of Spatial Set Behaviours.- Lifestyles - An Algebraic Approach to Change in Identity.- The Honeycomb Model of Spatio-Temporal Partitions.- Integration, Exchange, and Visualization.- Ontology-Based Geographic Data Set Integration.- The Italian Cadastral Information System: A Real-Life Spatio-Temporal DBMS.- Using Interactive, Temporal Visualizations for WWW-Based Presentation and Exploration of Spatio-Temporal Data.- Query Processing.- Nearest Neighbor Queries in a Mobile Environment.- A Framework ofa Generic Index for Spatio-Temporal Data in Concert.- Index Evaluation.- The BASIS System: A Benchmarking Approach for Spatial Index Structures.- Evaluation of Access Structures for Discretely Moving Points.- Constraints and Dependencies.- Temporal Dependencies Generalized for Spatial and Other Dimensions.- Tractable Query Answering in Indefinite Constraint Databases: Basic Results and Applications to Querying Spatiotemporal Information.- Animating Spatiotemporal Constraint Databases.



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