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Soggetti	Computer engineering
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Talks -- Tradeoffs between Parallel Database Systems, Hadoop, and HadoopDB as Platforms for Petabyte-Scale Analysis -- Emerging Trends and Converging Technologies in Data Intensive Scalable Computing -- Query Processing -- Deriving Spatio-temporal Query Results in Sensor Networks -- Efficient and Adaptive Distributed

Skyline Computation -- On the Efficient Construction of Multislices from Recurrences -- Optimizing Query Processing in Cache-Aware Wireless Sensor Networks -- Approximate Query Answering and Result Refinement on XML Data -- Efficient and Scalable Method for Processing Top-k Spatial Boolean Queries -- Scientific Data Management and Analysis -- A Framework for Moving Sensor Data Query and Retrieval of Dynamic Atmospheric Events -- Client + Cloud: Evaluating Seamless Architectures for Visual Data Analytics in the Ocean Sciences -- Scalable Clustering Algorithm for N-Body Simulations in a Shared-Nothing Cluster -- Database Design for High-Resolution LIDAR Topography Data -- PetaScope: An Open-Source Implementation of the OGC WCS Geo Service Standards Suite -- Towards Archaeo-informatics: Scientific Data Management for Archaeobiology -- Data Mining -- DESSIN: Mining Dense Subgraph Patterns in a Single Graph -- Discovery of Evolving Convoys -- Finding Top-k Similar Pairs of Objects Annotated with Terms from an Ontology -- Identifying the Most Influential User Preference from an Assorted Collection -- MC-Tree: Improving Bayesian Anytime Classification -- Non-intrusive Quality Analysis of Monitoring Data -- Visual Decision Support for Ensemble Clustering -- Indexes and Data Representation -- An Indexing Scheme for Fast and Accurate Chemical Fingerprint Database Searching -- BEMC: A Searchable, Compressed Representation for Large Seismic Wavefields -- Dynamic Data Reorganization for Energy Savings in Disk Storage Systems -- Organization of Data in Non-convex Spatial Domains -- PrefIndex: An Efficient Supergraph Containment Search Technique -- Supporting Web-Based Visual Exploration of Large-Scale Raster Geospatial Data Using Binned Min-Max Quadtree -- Scientific Workflow and Provenance -- Bridging Workflow and Data Provenance Using Strong Links -- LIVE: A Lineage-Supported Versioned DBMS -- Optimizing Resource Allocation for Scientific Workflows Using Advance Reservations -- A Fault-Tolerance Architecture for Kepler-Based Distributed Scientific Workflows -- Provenance Context Entity (PaCE): Scalable Provenance Tracking for Scientific RDF Data -- Taverna, Reloaded -- Similarity -- Can Shared-Neighbor Distances Defeat the Curse of Dimensionality? -- Optimizing All-Nearest-Neighbor Queries with Trigonometric Pruning -- Prefix Tree Indexing for Similarity Search and Similarity Joins on Genomic Data -- Similarity Estimation Using Bayes Ensembles -- Subspace Similarity Search: Efficient k-NN Queries in Arbitrary Subspaces -- Data Stream Processing -- Continuous Skyline Monitoring over Distributed Data Streams -- Propagation of Densities of Streaming Data within Query Graphs -- Spatio-temporal Event Stream Processing in Multimedia Communication Systems -- Stratified Reservoir Sampling over Heterogeneous Data Streams -- Tree Induction over Perennial Objects.