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Descrizione fisica	1 online resource (X, 298 p. 91 illus.)
Collana	Information Systems and Applications, incl. Internet/Web, and HCI ; ; 8628
Disciplina	005.74
Soggetti	Artificial intelligence Database management Information storage and retrieval Application software Management information systems Computer science Computers and civilization Artificial Intelligence Database Management Information Storage and Retrieval Information Systems Applications (incl. Internet) Management of Computing and Information Systems Computers and Society
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Standardization of Provenance models, Services, Representation -- ProvAbs: model, policy and tooling for abstracting PROV graphs -- ProvGen: generating provenance graphs with predictable structure -- Walking into the Future with PROV Pingback: An Application to Open dap using Prizms -- Provenance for Online Decision Making -- Regenerating and Quantifying Quality of Benchmarking Data using

Static and Dynamic Provenance -- noWorkflow: Capturing and Analyzing Provenance of Scripts -- Label Flow: Exploiting Workflow Provenance to Surface Scientific Data Provenance -- Auditing and Maintaining Provenance in Software Packages -- An Analytical Survey of Provenance Sanitization -- A Provenancebased Policy Control Framework for Cloud Services -- Applying Provenance to Protect Attribution in Distributed Computational Scientific Experiments -- Looking Inside the BlackBox: Capturing Data Provenance using Dynamic Instrumentation -- Generating Scientific Documentation for Computational Experiments Using Provenance -- Optimizing Data Lineage Queries using StaticWorkflow Analysis -- Interrogating Capabilities of IoT Devices -- A Lightweight Provenance Pingback and Query Service for Web Publications -- Scientific Workflow Provenance Searching in PBase -- PROVOViz Understanding the Role of Activities in Provenance -- The AspectOriented Architecture of the CAPS Framework for Capturing, Analyzing and Archiving Provenance Data -- Improving Workflow Design Using Abstract Provenance Graphs -- Early Discovery of Tomato Foliage Diseases Based on Data Provenance and Pattern Recognition -- Provenance in Open Data EntityCentric Aggregation -- Enhancing Provenance Representation With Knowledge Based On NFR Conceptual Modeling: A Softgoal Catalog Approach -- Provenance Storage, Querying and Visualization in PBase -- Engineering Choices for Open World Provenance -- Towards Supporting Provenance Gathering and Querying in Different Database Approaches -- Provenance for Explaining Taxonomy Alignments -- Challenges in Modeling Geospatial Provenance -- Adaptive RDF Query Processing based on Provenance -- Using WellFounded Provenance Ontologies to Query Meteorological Data -- Applying W3C PROV to express Geospatial Provenance at feature and attribute level -- ProvStore: A Public Provenance Repository -- Sentence Templating for Explaining Provenance -- Extending PROV Data Model for ProvenanceAware Sensor Web -- SCPROV: A Provenance Vocabulary for Social Computation -- RDataTracker and DDG Explorer: Capture, Visualization and Querying of Provenance from R Scripts -- Provenance Support for Medical Research -- Experiencing PROVWf for Provenance Interoperability in SWfMSs.

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## Sommario/riassunto

This book constitutes the revised selected papers of the 5th International Provenance and Annotation Workshop, IPAW 2014, held in Cologne, Germany in June 2014. The 14 long papers, 20 short papers and 4 extended abstracts presented were carefully reviewed and selected from 53 submissions. The papers include tools that enable provenance capture from software compilers, from web publications, and from scripts, using existing audit logs, and employing both static and dynamic instrumentation.

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