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Web Service Discovery -- A Generic Approach for Large-Scale Ontological Reasoning in the Presence of Access Restrictions to the Ontology's Axioms -- OntoCase-Automatic Ontology Enrichment Based on Ontology Design Patterns -- Graph-Based Ontology Construction from Heterogenous Evidences -- DOGMA: A Disk-Oriented Graph Matching Algorithm for RDF Databases -- Semantically-Aided Business Process Modeling -- Task Oriented Evaluation of Module Extraction Techniques -- A Decomposition-Based Approach to Optimizing Conjunctive Query Answering in OWL DL -- Goal-Directed Module Extraction for Explaining OWL DL Entailments -- Analysis of a Real Online Social Network Using Semantic Web Frameworks -- Coloring RDF Triples to Capture Provenance -- TripleRank: Ranking Semantic Web Data by Tensor Decomposition -- What Four Million Mappings Can Tell You about Two Hundred Ontologies -- Modeling and Query Patterns for Process Retrieval in OWL -- Context and Domain Knowledge Enhanced Entity Spotting in Informal Text -- Using Naming Authority to Rank Data and Ontologies for Web Search -- Executing SPARQL Queries over the Web of Linked Data -- Dynamic Querying of Mass-Storage RDF Data with Rule-Based Entailment Regimes -- Decidable Order-Sorted Logic Programming for Ontologies and Rules with Argument Restructuring -- Semantic Web Service Composition in Social Environments -- XLWrap – Querying and Integrating Arbitrary Spreadsheets with SPARQL -- Optimizing QoS-Aware Semantic Web Service Composition -- Synthesizing Semantic Web Service Compositions with jMosel and Golog -- A Practical Approach for Scalable Conjunctive Query Answering on Acyclic Knowledge Base -- Learning Semantic Query Suggestions -- Investigating the Semantic Gap through Query Log Analysis -- Towards Lightweight and Robust Large Scale Emergent Knowledge Processing -- On Detecting High-Level Changes in RDF/S KBs -- Efficient Query Answering for OWL 2 -- Multi Visualization and Dynamic Query for Effective Exploration of Semantic Data -- A Conflict-Based Operator for Mapping Revision -- Functions over RDF Language Elements -- Policy-Aware Content Reuse on the Web -- Exploiting Partial Information in Taxonomy Construction -- Actively Learning Ontology Matching via User Interaction -- Optimizing Web Service Composition While Enforcing Regulations -- A Weighted Approach to Partial Matching for Mobile Reasoning -- Scalable Distributed Reasoning Using MapReduce -- Discovering and Maintaining Links on the Web of Data -- Concept and Role Forgetting in Ontologies -- Parallel Materialization of the Finite RDFS Closure for Hundreds of Millions of Triples -- Semantic Web In Use -- Live Social Semantics -- RAPID: Enabling Scalable Ad-Hoc Analytics on the Semantic Web -- LinkedGeoData: Adding a Spatial Dimension to the Web of Data -- Enrichment and Ranking of the YouTube Tag Space and Integration with the Linked Data Cloud -- Produce and Consume Linked Data with Drupal! -- Extracting Enterprise Vocabularies Using Linked Open Data -- Reasoning about Resources and Hierarchical Tasks Using OWL and SWRL -- Using Hybrid Search and Query for E-discovery Identification -- Bridging the Gap between Linked Data and the Semantic Desktop -- Vocabulary Matching for Book Indexing Suggestion in Linked Libraries – A Prototype Implementation and Evaluation -- Semantic Web Technologies for the Integration of Learning Tools and Context-Aware Educational Services -- Semantic Enhancement for Enterprise Data Management -- Lifting Events in RDF from Interactions with Annotated Web Pages -- A Case Study in Integrating Multiple E-commerce Standards via Semantic Web Technology -- Supporting Multi-view User Ontology to Understand Company Value Chains -- Doctoral Consortium -- EXPRESS: EXPressing

REstful Semantic Services Using Domain Ontologies -- A Lexical-Ontological Resource for Consumer Heathcare -- Semantic Web for Search -- Towards Agile Ontology Maintenance -- Ontologies for User Interface Integration -- Semantic Usage Policies for Web Services -- Ontology-Driven Generalization of Cartographic Representations by Aggregation and Dimensional Collapse -- Invited Talks -- Populating the Semantic Web by Macro-reading Internet Text -- Search 3.0: Present, Personal, Precise.

Sommario/riassunto	This book constitutes the refereed proceedings of the 8th International Semantic Web Conference, ISWC 2009, held in Chantilly, VA, USA, during October 25-29, 2009. The volume contains 43 revised full research papers selected from a total of 250 submissions; 15 papers out of 59 submissions to the semantic Web in-use track, and 7 papers and 12 posters accepted out of 19 submissions to the doctorial consortium. The topics covered in the research track are ontology engineering; data management; software and service engineering; non-standard reasoning with ontologies; semantic retrieval; OWL; ontology alignment; description logics; user interfaces; Web data and knowledge; semantic Web services; semantic social networks; and rules and relatedness. The semantic Web in-use track covers knowledge management; business applications; applications from home to space; and services and infrastructure.