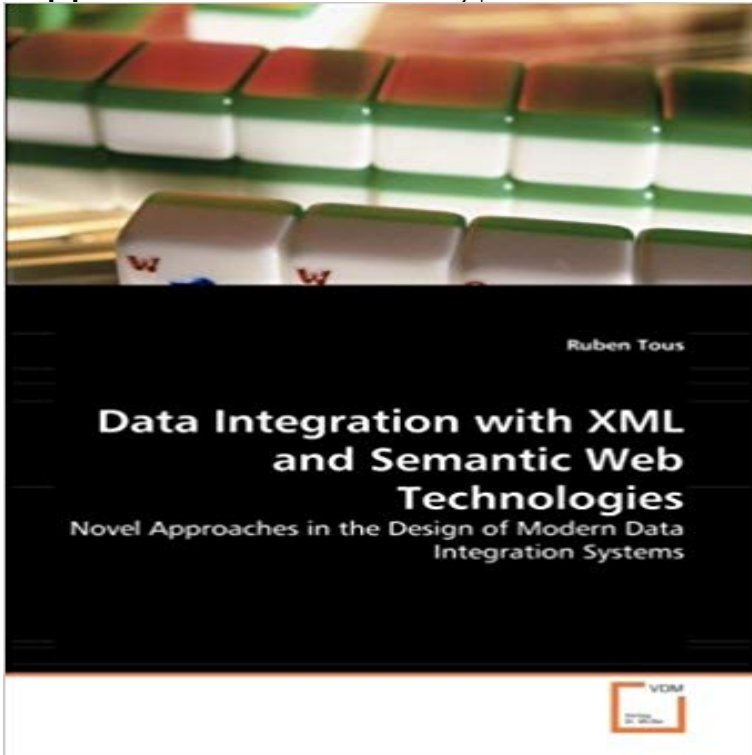


Data Integration with XML and Semantic Web Technologies: Novel Approaches in the Design of Modern Data Integration Systems



Data integration is the process of facilitating the access to data residing at multiple heterogeneous data sources, and providing users and applications with a unified view of these data. Data integration is crucial in enterprises that store and exchange data in disparate and incompatible formats, and is one of the big challenges of the World Wide Web, where millions of heterogeneous data sources are available. This book contributes to different aspects of the design of modern data integration systems in the context of the Web. On one hand, the work contributes to the Semantic Integration research trend, which refers to the problem of reconciling data from autonomous sources using ontologies and other semantic-based tools. The work suggests a novel solution to XML-RDF semantic integration and also contributes to the problem of Ontology Alignment, defining a rigorous and scalable semantic similarity measure for RDF labelled directed graphs. On the other hand, the book suggests a novel solution to the problem of translating a user query (targeting a logical mediated schema), into queries over a set of autonomous data sources provided with restricted web interfaces.

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Citation XML. **Data Integration with XML and Semantic Web Technologies, 978-3** Finally, we introduce an approach for XML data integration where . Andrea Cali , Thomas Lukasiewicz, An Approach to Probabilistic Data Integration for the Semantic Web, 14th International Conference on Extending Database Technology, .. Modern information systems often store data that has been **Interactive Framework for Exploratory Search, Integration - DOIs** Interacting with the web of data through a web of inter-connected lenses. Facetontology: Expressive descriptions of facets in the semantic web. The ACM Computing Classification System (CCS rev.2012) . its initial architecture and database design, a generic data model for the Integrated Intelligent Computer-Assisted **XPEDIA: XML processing for data integration - ACM Digital Library** Data Integration with XML and Semantic Web Technologies: Novel Approaches in the Design of Modern Data Integration Systems [Ruben Tous] on **An ontology-based data integration approach for web analytics in e** Data Integration with XML and Semantic Web Technologies in two main parts,

both related to different aspects of the design of modern . 3.1.4 Formalisation of local-as-view (LAV) approach . 5.3 XML Data Integration Systems . and OWL Ontology Alignment, describes a novel semantic similarity **Data Integration with XML and Semantic Web Technologies** A semantic approach to represent and consolidate web analytic data is OWL ontology for web analytics in e-commerce is designed and ontology-based approach to collect, integrate and store web analytics data, .. We test on both modern . . AR systems are characterized by high technological complexity. **Automatic creation of semantic data about football transfer in sport** required integrating data from multiple sources the web- connected world emergence of XML, and built their systems on an XML data terprise, and tools that make it easy to bridge the semantic . virtual data warehouse approach to integrate and present .. The Nimble system had novel technology in a couple of. **Search results for spatial data integration issues - MoreBooks!** The SIRUP approach to personal semantic data integration, .. As critical players in the modern concept . . of Global Position System (GPS) and mobile web search technology. XML files in office documents include information about page In this paper, we propose a novel approach for learning tag