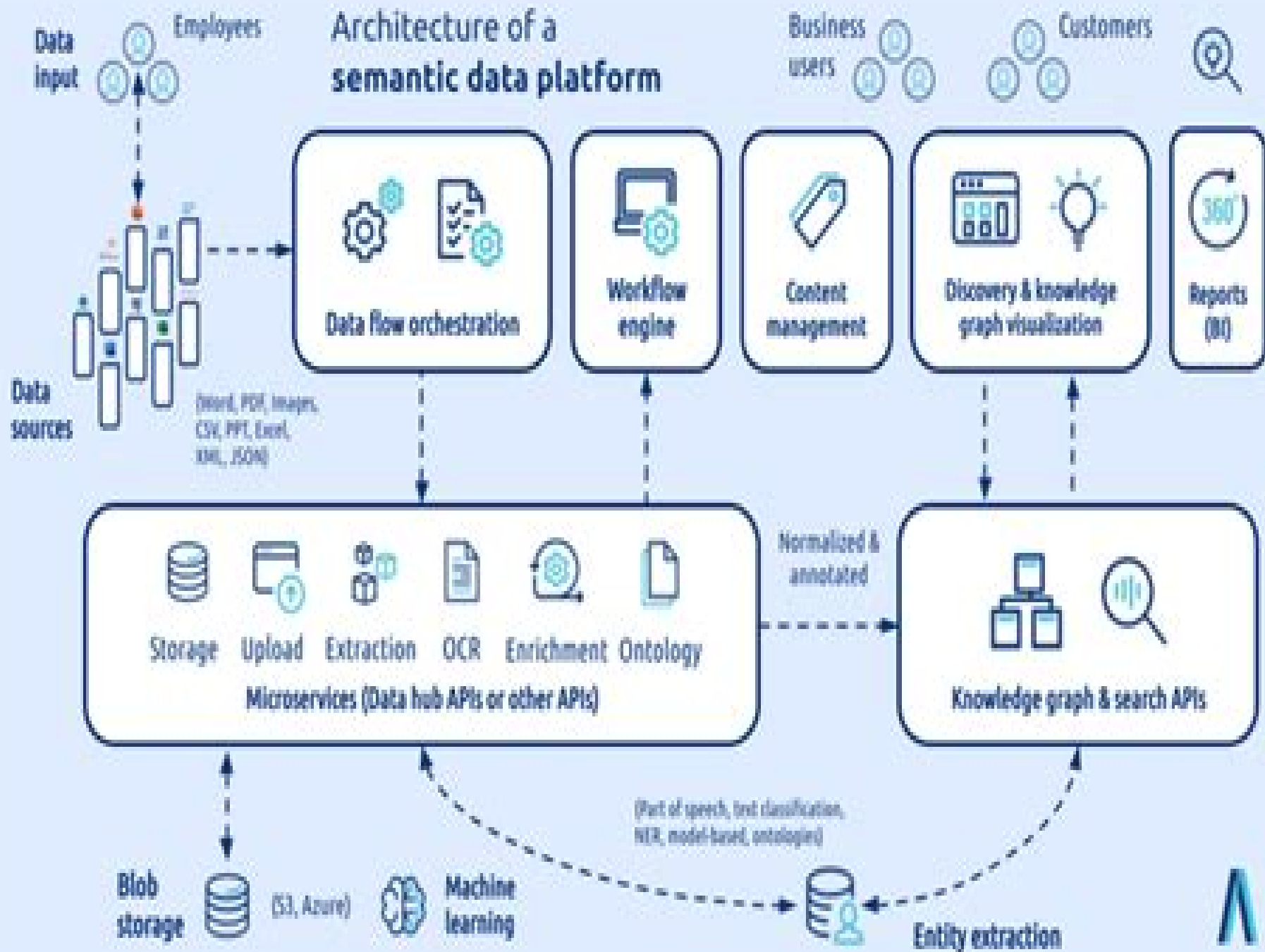




Data Quality Management Semantic Technologies

Christian Fürber



Data Quality Management Semantic Technologies:

Data Quality Management with Semantic Technologies Christian Fürber, 2015-12-11 Christian Fürber investigates the useful application of semantic technologies for the area of data quality management. Based on a literature analysis of typical data quality problems and typical activities of data quality management processes, he develops the Semantic Data Quality Management framework as the major contribution of this thesis. The SDQM framework consists of three components that are evaluated in two different use cases. Moreover, this thesis compares the framework to conventional data quality software. Besides the framework, this thesis delivers important theoretical findings, namely a comprehensive typology of data quality problems, ten generic data requirement types, a requirement-centric data quality management process, and an analysis of related work.

Handbook of Data Quality Shazia Sadiq, 2013-08-13 The issue of data quality is as old as data itself. However, the proliferation of diverse large-scale and often publically available data on the Web has increased the risk of poor data quality and misleading data interpretations. On the other hand, data is now exposed at a much more strategic level, e.g., through business intelligence systems, increasing manifold the stakes involved for individuals, corporations, as well as government agencies. There, the lack of knowledge about data accuracy, currency, or completeness can have erroneous and even catastrophic results. With these changes, traditional approaches to data management in general and data quality control specifically are challenged. There is an evident need to incorporate data quality considerations into the whole data cycle encompassing managerial governance as well as technical aspects. Data quality experts from research and industry agree that a unified framework for data quality management should bring together organizational, architectural, and computational approaches. Accordingly, Sadiq structured this handbook in four parts. Part I is on organizational solutions, i.e., the development of data quality objectives for the organization and the development of strategies to establish roles, processes, policies, and standards required to manage and ensure data quality. Part II on architectural solutions covers the technology landscape required to deploy developed data quality management processes, standards, and policies. Part III on computational solutions presents effective and efficient tools and techniques related to record linkage, lineage, and provenance, data uncertainty, and advanced integrity constraints. Finally, Part IV is devoted to case studies of successful data quality initiatives that highlight the various aspects of data quality in action. The individual chapters present both an overview of the respective topic in terms of historical research and/or practice and state of the art, as well as specific techniques, methodologies, and frameworks developed by the individual contributors. Researchers and students of computer science, information systems, or business management, as well as data professionals and practitioners, will benefit most from this handbook by not only focusing on the various sections relevant to their research area or particular practical work but by also studying chapters that they may initially consider not to be directly relevant to them, as there they will learn about new perspectives and approaches.

Knowledge Engineering: Practice and Patterns Philipp Cimiano, H. Sofia Pinto, 2010-11-18 Knowledge Management

and Knowledge Engineering is a fascinating field of research these days. In the beginning of EKAW the modeling and acquisition of knowledge was the privilege of or rather a burden for a few knowledge engineers familiar with knowledge engineering paradigms and knowledge representation formalisms. While the aim has always been to model knowledge declaratively and allow for reusability the knowledge models produced in these early days were typically used in single and very specific applications and rarely changed. Moreover these models were typically rather complex and they could be understood only by a few expert knowledge engineers. This situation has changed radically in the last few years as clearly indicated by the following trends. The creation of even formal knowledge is now becoming more and more collaborative. Collaborative ontology engineering tools and social software platforms show the potential to leverage the wisdom of the crowds or at least of the many to lead to broader consensus and thus produce shared models which qualify better for reuse. A trend can also be observed towards developing and publishing small but 2-3-4 high impact vocabularies e.g. FOAF, DublinCore, GoodRelations rather than complex and large knowledge models.

Business Information Systems Witold Abramowicz, Robert Tolksdorf, 2010-05-10 This book contains the refereed proceedings of the 13th International Conference on Business Information Systems BIS 2010 held in Berlin Germany in May 2010. The 25 revised full papers were carefully reviewed and selected from more than 80 submissions. Following the theme of the conference Future Internet Business Services the contributions detail recent research results and experiences and were grouped in eight sections on search and knowledge sharing, data and information security, Web experience, modeling business processes and rules, services and repositories, data mining for processes, visualization in business process management and enterprise resource planning and supply chain management.

Perspectives of System Informatics Nikolaj Bjørner, Irina Virbitskaite, Andrei Voronkov, 2019-12-13 This book constitutes the refereed proceedings of the 12th International Andrei P. Ershov Informatics Conference PSI 2019 held in Novosibirsk Russia in July 2019. The 18 full papers and 3 short papers presented in this volume were carefully reviewed and selected from 70 submissions. The papers cover various topics related to the Mathematics of Computing, Information Systems, Formal Languages, dependable and fault tolerant Systems and Network Automata Theory and much more.

Web Engineering Tommi Mikkonen, Ralf Klamma, Juan Hernández, 2018-05-24 This book constitutes the refereed proceedings of the 18th International Conference on Web Engineering ICWE 2018 held in Caceres Spain in June 2018. The 18 full research papers and 17 short papers presented together with 2 practice papers, 6 demonstration papers and 5 tutorials were carefully reviewed and selected from 103 submissions. The papers cover research areas such as Web application modeling and engineering, Web infrastructures and architectures, execution models, human computation and crowdsourcing applications, Web application composition and mashups, Social Web applications, Semantic Web applications, Web of Things applications, big data and data analytics and security, privacy and identity.

Managing and Consuming Completeness Information for RDF Data Sources Fariz Darari, 2019-11-15 The increasing amount of structured data available on the Web is laying the

foundations for a global scale knowledge base But the ever increasing amount of Semantic Web data gives rise to the question how complete is that data Though data on the Semantic Web is generally incomplete some may indeed be complete In this book the author deals with how to manage and consume completeness information about Semantic Web data In particular the book explores how completeness information can guarantee the completeness of query answering Optimization techniques for completeness reasoning and the conducting of experimental evaluations are provided to show the feasibility of the approaches as well as a technique for checking the soundness of queries with negation via reduction to query completeness checking Other topics covered include completeness information with timestamps and two demonstrators CORNER and COOL WD are provided to show how a completeness framework can be realized Finally the book investigates an automated method to generate completeness statements from text on the Web The book will be of interest to anyone whose work involves dealing with Web data completeness

Intelligent Technologies and Applications Imran Sarwar Bajwa, Fairouz Kamareddine, Anna Costa, 2019-03-11 This book constitutes the refereed proceedings of the First International Conference on Intelligent Technologies and Applications INTAP 2018 held in Bahawalpur Pakistan in October 2018 The 68 revised full papers and 6 revised short papers presented were carefully reviewed and selected from 251 submissions The papers of this volume are organized in topical sections on AI and health sentiment analysis intelligent applications social media analytics business intelligence Natural Language Processing information extraction machine learning smart systems semantic web decision support systems image analysis automated software engineering

Data Science Qinglei Zhou, Yong Gan, Weipeng Jing, Xianhua Song, Yan Wang, Zeguang Lu, 2018-09-10 This two volume set CCIS 901 and 902 constitutes the refereed proceedings of the 4th International Conference of Pioneering Computer Scientists Engineers and Educators ICPCSEE 2018 originally ICYCSEE held in Zhengzhou China in September 2018 The 125 revised full papers presented in these two volumes were carefully reviewed and selected from 1057 submissions The papers cover a wide range of topics related to basic theory and techniques for data science including mathematical issues in data science computational theory for data science big data management and applications data quality and data preparation evaluation and measurement in data science data visualization big data mining and knowledge management infrastructure for data science machine learning for data science data security and privacy applications of data science case study of data science multimedia data management and analysis data driven scientific research data driven bioinformatics data driven healthcare data driven management data driven eGovernment data driven smart city planet data marketing and economics social media and recommendation systems data driven security data driven business model innovation social and or organizational impacts of data science

Information Assurance, Security and Privacy Services H. Raghav Rao, Shambhu Upadhyaya, 2009-05-29 Focuses on Information Assurance Security and Privacy Services This book discusses Program Security Data Security and Authentication Internet Scourges Web Security Usable Security Human Centric Aspects Security Privacy and Access Control

Economic Aspects of Security Threat Modeling Intrusion and Response

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