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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	On Subtyping of Tree-Structured Data: A Polynomial Approach -- Towards Generic Query, Update, and Event Languages for the Semantic Web -- Data Retrieval and Evolution on the (Semantic) Web: A Deductive Approach -- Rules and Queries with Ontologies: A Unified Logical Framework -- Semantic Web Reasoning for Ontology-Based Integration of Resources -- Static Type-Checking of Datalog with Ontologies -- Reasoning About Temporal Context Using Ontology and Abductive Constraint Logic Programming -- Towards a Multi-calendar

Temporal Type System for (Semantic) Web Query Languages --
Calendrical Calculations with Time Partitionings and Fuzzy Time
Intervals -- DR-DEVICE: A Defeasible Logic System for the Semantic
Web -- A PDDL Based Tool for Automatic Web Service Composition.

Sommario/riassunto

The best informal definition of the Semantic Web is maybe found in the
May 2001 Scientific American article "The Semantic Web" (Berners-Lee et al.),
which says

"The Semantic Web is an extension of the current Web in which information is
given well-defined meaning, better enabling computers and people to
work in cooperation. " People who work on the Semantic Web quite
often base their work on the famous "semantic web tower", a product
of Tim Berners-Lee's inspiring drawing on whiteboards. The lowest
level is the level of character representation (Unicode) and the identi-
fication of resources on the Web (URIs). The highest level concerns the
problem of trusting information on the Web. Somewhere in the middle
of the tower is the logic level. It addresses the problem of repre-
senting information on the Web in a way so that inference rules can derive
implicit information from explicitly stated information. The workshop
"Principles and Practices of Semantic Web Reasoning" (PPSWR 2004)
addressed problems on this level. It took place in September 2004 as a
satellite event of the 20th International Conference on Logic
Programming (ICLP) in St. Malo, France. After PPSWR 2003 in Mumbai,
India, it was the second workshop in this series. This book contains the
articles presented at the workshop.
