

Reasoning Web

Third International Summer School 2007, Dresden, Germany, September 3-7, 2007,
Tutorial Lectures

This book contains a collection of thoroughly revised tutorial papers based on lectures given by leading researchers at the Second International Summer School on the Reasoning Web in Dresden, Germany, September 2007. The nine tutorial papers cover methods and research issues of the Semantic Web, ontology languages and their relation to description logics, techniques in Web information extraction, employing ontologies to ease construction of software applications, and more.

The summer school series Reasoning Web focuses on theoretical foundations, current approaches, and practical solutions for reasoning in a Web of Semantics. It has established itself as a meeting point for experts from research and industry, and students undertaking their PhDs in related fields. This volume contains the tutorial notes of the Reasoning Web summer school 2007, which was held in Dresden, Germany, in September 2007. This summer school was the third school of the Reasoning Web series, following the very successful predecessors held in Malta and Lisbon. The first part of the 2007 edition is devoted to "Fundamentals of Reasoning and Reasoning Languages" and surveys concepts and methods for rule-based query languages. Further, it gives a comprehensive introduction to description logics and its usage. Reactive rules and rule-based policy representation are covered in the second part on "Rules and Policies." A thorough discussion on the importance of rule interchange in the Web and promising solution strategies is given together with an overview on current W3C initiatives. Finally, the third part is devoted to "Applications of Semantic Web Reasoning," and demonstrates practical uses of Semantic Web reasoning. The academics viewpoint is presented by a contribution on reasoning in Semantic Wikis. The industry's viewpoint is presented by contributions that discuss the importance of semantic technologies for search solutions for enterprises, for creating an enterprise knowledge base with Semantic Wiki representations, and Semantic Web Service discovery and selection in B2B scenarios.



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