



Reasoning Web. Semantic Technologies for Software Engineering

By Uwe Aßmann

Springer-Verlag Gmbh Sep 2010, 2010. Taschenbuch. Book Condition: Neu. 240x158x13 mm. Neuware - Welcome to the proceedings of Reasoning Web 2010 which was held in Dresden. Reasoning Web is a summer school series on theoretical foundations, contemporary approaches, and practical solutions for reasoning in a Web of Semantics. It has established itself as a meeting point for experts from research institutes and industry, as well as students undertaking their PhDs in related fields. This volume contains tutorial notes of the sixth school in the series, held from August 30 to September 3, 2010. This year, the school focused on applications of semantic technologies in software engineering and the reasoning technologies appropriate for such an endeavor. As it turns out, semantic technologies in software engineering are not so easily applied, and several issues must be resolved before software modeling can benefit from reasoning. First, reasoning has to be fast and scalable, since models and programs can be quite large and voluminous. Since many reasoning languages are exponential or NP-complete, approximation, incrementalization, and other optimization techniques are extremely important. Second, software engineering needs to model software systems, in contrast to modeling domains of the world. Thus, the modeling techniques are prescriptive rather than descriptive [1], which influences the way models are reasoned about. When a software system is modeled, its behavior is prescribed by the model,...



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