



Semantic Web Technologies for Enterprise 2.0 - Volume 9 Studies on the Semantic Web

A. Passant

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This book deals with different theories, methods and implementations combining Web 2.0 paradigms and Semantic Web technologies in Enterprise environments. After introducing those terms, the current shortcomings of tools such as blogs and wikis are presented as well as tagging practices in an Enterprise 2.0 context. A definition of the SemSLATES methodology is given, as well as the global vision of a middleware architecture based on Semantic Web technologies and Linked Data principles (languages, models, tools and protocols) to solve these issues. Then, the various ontologies that we build to achieve this goal are detailed. On the one hand the models dedicated to socio-structural meta-data, especially SIOC - Semantically-Interlinked Online Communities -, are presented and on the other hands models extending public ontologies for representing domain knowledge. Moreover, the MOAT - Meaning Of A Tag - ontology is discussed, providing a way to combine the flexibility of tagging and the power of ontology-based indexing. The book also describes several software implementations related to these models, done in the industrial context of EDF R&D, and dedicated to easily produce and use semantic annotations to enrich original tools: semantic wikis, advanced visualization interfaces (faceted browsing, semantic mash-ups, etc.) combined with a semantic search engine. Several contributions described in this publication have been published as public ontologies or open-source software, contributing more generally to this convergence between Web 2.0 and the Semantic Web, not only in enterprise but on the Web as a whole.

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