

## **Toward the adaptive Web using Metadata Evolution**

The evolution of Web information is of utmost importance in the design of good Web Information Systems applications. New emerging paradigms, like the Semantic Web, use ontologies for describing metadata and are defined, in part to aid in Web evolution. In this chapter, we survey techniques for ontology evolution. After identifying the different kinds of evolution the Web is confronted with, we detail the various existing languages and techniques devoted to web data evolution, with particular attention to semantic Web concepts, and how these languages and techniques can be adapted to evolving data in order to improve the quality of Web Information Systems applications.