

In the present work we study possibilities in the area of XML schema evolution. The thesis contains a survey of conceptual modeling of XML data, schema matching and XML schema evolution. A new semiautomatic technique of connecting XML schemas to a conceptual model based on XSEM, a model for conceptual modeling of XML data based on MDA, is presented. It makes the design and maintenance of a set of XML schemas in an information system simpler and easier. In addition, the thesis contains a set of evolution operations allowing changes in the conceptual model to be automatically propagated to the connected XML schemas.