

In the presented work we study the XML data evolution, reasons and consequences of XML schema evolution in particular. The thesis contains a survey of the existing approaches to this problem. The approach presented in this work extends the XSem conceptual model with the support for multiple versions of the model. Thanks to this extension, it is possible to define a set of changes between two versions of a schema. The thesis contains a description of an algorithm that compares two versions of a schema and produces a revalidation script in XSL.