

In the present work we study the possibilities of reverse engineering of XML schemas. The work contains a survey of XML and commonly used languages for describing XML schemas, an overview of existing techniques for conceptual modeling, reverse engineering and methods for the mapping evaluation between XML schemas. A new method, based on analysis of the conceptual model XSEM and the subsequent creation of a decision tree, is introduced. The method allows effectively find a mapping from XML schemas to models XSEM. The work also describes a new technique for selection of the path between the mapped classes. Finally, the work contains a number of experiments that show the advantages and disadvantages of the proposed solutions.