Bachelor thesis deals with automatization of evaluation of multi-criteria analysis of cartographic resources. Analysis uses a number of evaluation scales, different criteria weights and especially various number of criteria and their articulation. Structure suitable fo automatization of evaluation is described in the thesis and on its base is created and described program, which is part of the thesis. Program provides creation of criteria structure and description of analysed resources. Then analysis of quality of the resource is done over this structure with the aid of program by filling in the rating of individual criteria. Aggregation of analysis is calculated after it in consideration of distinct attributes of evaluators and importance of criteria.