

The goal of this work was to character the indexing structure VA-file and perform the huge variety of this structure examinations. In addition, I have also described a comparison between two data structures, namely VA-File and R-tree, which has been based on the numer of experiments too. In order to analyze/search inquiries by means of the data structure VA-File the algorithm VA-NOA (near optimal algorithm) has been used. In the course of testing high-level multiplicity has been preferred. I made efforts to survey a performance of the indexing structure as widely as possible and achieve a detail view of the comparison between the qualities of the VA-File and R-tree structures. The project has resulted in the implementation of the structure VA-File that has been applied to the experiments. Since this implementation has been properly described, it is possible to see the impact of each of the parameters on the indexing file generation. Furthermore, the data structure effectiveness in the course of searching is defined in terms of multidimensional range inquiries.