The Effect of Hybrid Crossover Technique on Enhancing Recall and Precision in Information Retrieval

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Abstract:

Several techniques are proposed to retrieve the most relevant HTML documents to user query. Among these techniques is the genetic algorithm which iteratively creates several generations using selection, crossover and mutation before producing the final result. In this paper, a new hybrid crossover technique is proposed to enhance the quality of the retrieved results. This technique is applied to HTML documents and evaluated using recall, precision and recall precision measures. Its performance is compared to three well known techniques of crossover. The results show high improvement in the quality of the retrieved documents in terms of these measures.