A Comparative Study on the Effect of used Crossover Operator on Performance of GA as a Web Page Classifier

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Abstract

By incredible and uncontrollable growth in amount of web pages on the World Wide Web, providing an infrastructure due to searching among them leads to appearance of topic specific crawling of the web. Process of focused crawlers is base on an automatic web page classification mechanism of belonging or not belonging the page to a particular topic. The Genetic algorithm (GA) is a common optimization and search technique, used as classifier of web pages. Crossover operation as one of the GA operators, by producing 2 children out of parents of past generation and determination of next generation through combining produced child, plays important roles in performance of this algorithm. Up to now many different crossover operators such as single-point, two-point and ring are presented. In this paper, we compare the effect of mentioned crossover operators on performance of GA algorithm as a web page classifier.

References

Index Terms

Computer Science

Information Sciences
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Genetic algorithm  web mining  Crossover Operator  Classification