

An Information Filtering Intelligent Agent for World Wide Web

邱舜傑、陳鴻文

E-mail: 8701184@mail.dyu.edu.tw

ABSTRACT

Due to the breakthrough of computer technology and of the development of Internet, it is possible to find out lots of information available for network users. However, the abuse of information retrieval tools has the side effects of information overload and inappropriateness. To solve those problems, a novel intelligent agent is proposed by incorporating with the current search engines of Internet. First of all, web-page information is functionally classified into eight categories: article summaries, seminar minutes, course schedules, book instructions, FAQ, news, individual or group homepages, and company promotions and product advertisements. Based on the formulation and inference of Fuzzy rules, the proposed system can successfully recognize the categories of tested webpages. Experiments of classifying 811 web-pages show that the system can both improve the efficiency of information searching and match the special demands of users. Therefore, the system is worth to be further developed and commercialized.

Keywords : 資訊篩選 ; 智慧型代理器 ; 資訊檢索

Table of Contents

0

REFERENCES

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