

Adaptive Web-based Systems: From Framework to Implementation

Bujar Raufi, Juliana Georgieva

Abstract: *The paper gives an insight of the work done so far in modeling and implementation of user adapted software systems or adaptive web sites. We introduce a five layer framework which gives to our adaptive web based system flexibility, expressiveness, modularity and interoperability. The work so far has been concentrated in the first four layers of the framework concerning data representation, representation of knowledge as well as development of adaptation algorithm for such systems. Initial experimental results on adaptation show good performance of the algorithm for both per-user based adaptation and adaptation for groups of users. The findings also indicate that the approach is suitable for generic adaptive web-based systems.*

Keywords: *Adaptive web based systems, adaptive hypermedia, user adapted software systems.*

INTRODUCTION

Many of the traditional web pages used today suffer from a problem of representing the same set of data to each particular user [1]. This means that when a user accesses a web page of a library, it will be presented with the same set of information every time it visits it. A tourist that tries to find information about travel and hotel arrangements will be presented with the same order of information regardless of its destination preferences or browsing habits [1]. The same issue can be generalized for many, but not all, web applications in various domains like: e-commerce, corporate web sites and virtual education. The solution for overcoming this situation is the development of user-adaptive software systems [1] or *Adaptive Web Sites*. Adaptive Web Sites represent Web-Based Systems that tend to arrange their content, structure or both based on user access preferences.

Starting as a pioneering work of a few research communities in the middle of 90's [2] today it represents a research milestone for many communities involving various research disciplines like: user modelling, Web Usage Mining, natural language processing, intelligent tutoring systems, cognitive sciences and semantic web. The adaptation process in adaptive web based systems is done by building a model of goals, knowledge and preferences as well as using those for interaction with the user during its browsing. In traditional adaptive web based systems such an interaction is done by building a user model and applying the same for adapting the content for the purpose of the user itself [3]. This relationship between system, user and adaptation is presented by Brusilovsky in the form of user modelling-adaptation loop [3]. In this approach, the system collects data about user, processes the same and finally results are presented in an adapted way. The adaptation process, as stated by Brusilovsky, is performed through the adaptation methods and adaptation techniques [3].

By *adaptation methods* we consider a more generalized and abstracted approach concerning adaptation process. This usually represents a description of what the adaptation should do rather than how to do it. Methods usually include a more abstracted representation of adaptation rules like inserting a certain fragment in some part of the page if some conditions are met etc. By *adaptation technique* on the other hand, we consider a more detailed and well specified approach for delivering adaptation and consequently, as such, they are a part of the implementation process. Each adaptation technique is characterized by specific knowledge representation, modelling, adaptation engine etc [3].

Adaptive Web Based Systems From Conception To Implementation

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