

A³EH: The 3rd workshop of Authoring of Adaptive and Adaptable Educational Hypermedia

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Abstract. The A³EH follows a successful series of workshops on Adaptive and Adaptable Educational Hypermedia. This workshop focuses on models, design and authoring of AEH, on assessment of AEH, conversion between AEH and evaluation of AEH. The workshop has paper presentations, poster session and panel discussions. As you see, we have a full agenda, so don't hesitate to join us!

Introduction

This workshop follows a successful series of workshops on the same topic. The current workshop focuses on the issues of design, implementation and evaluation of general Adaptive and Adaptable (Educational) Hypermedia, with special emphasis on the connection to user modelling and pedagogy. Authoring of Adaptive Hypermedia has been long considered as secondary to adaptive hypermedia delivery. This task is not trivial at all. There exist some approaches to help authors to build adaptive-hypermedia-based systems, yet there is a strong need of high-level approaches, formalisms and tools that support and facilitate the description of reusable adaptive websites. Only recently have we noticed a shift in interest, as it became clearer that the implementation-oriented approach would forever keep adaptive hypermedia away from the 'layman' author. The creator of adaptive hypermedia cannot be expected to know all facets of this process, but can be reasonably trusted to be an expert in one of them. It is therefore necessary to research and establish the components of an adaptive hypermedia system from an authoring perspective, catering for the different author personas that are required. This type of research has proven to lead to a modular view on the adaptive hypermedia. One of these modules, which is most frequently used, is the User Model, also called Learner Model in the Educational field (or Student Model in ITS). Less frequent, but also emerging as an important module is the Pedagogical Model (this model has also different names in different implementations, too various to name here). It becomes more and more clear that for Adaptive Educational Hypermedia it is necessary to consider not only the learner's characteristics, but also the pedagogical knowledge to deal with these characteristics. This workshop will cover all aspects of the authoring process of adaptive educational hypermedia, from design to evaluation, with special attention to Learner and Pedagogical models. Therefore, important issues to discuss are, among others:

- * What are the main characteristics (that should be) modelled of learners?
- * How can the pedagogical knowledge be formulated in a reusable manner?
- * How to support pedagogic scenarios?
- * How can we consider user cognitive styles in adaptive hypermedia?
- * How can we consider user learning styles in adaptive hypermedia?

* Are there any recurring patterns that can be detected in the authoring process generally speaking, and in the authoring of user or pedagogic model in particular?

The workshop will also lead to a better understanding and cross-dissemination of user-specific patterns extracted from existing design and authoring processes in AH, especially focused around user modelling and pedagogic modelling.

The workshop aims to attract the interest of the related research communities to the important issues of design and authoring, with special focus on user and pedagogic models in adaptive hypermedia; to discuss the current state of the art in this field; and to identify new challenges in the field.

Moreover, the workshop should be seen as a platform that enables the cooperation and exchange of information between European and non-European projects.

Major Themes

- * Design patterns for adaptive educational hypermedia
- * Authoring user models for adaptive/adaptable educational hypermedia
- * Authoring pedagogic models for adaptive/adaptable educational hypermedia
- * Generic authoring for adaptive/adaptable educational hypermedia
- * Authoring patterns for user models and pedagogic models in adaptive/adaptable educational hypermedia
- * Authoring Tools for user models and pedagogic models in adaptive/adaptable educational hypermedia
- * Generic authoring tools in adaptive/adaptable educational hypermedia
- * Reusable user models and pedagogic models
- * Connecting adaptive educational hypermedia with cognitive/learning styles
- * Evaluation of authoring tools for adaptive educational hypermedia
- * Evaluation of adaptive educational hypermedia design patterns
- * Evaluation of adaptive educational hypermedia authoring patterns

The workshop will consist of three major parts:

- o full paper presentations,
- o poster session and
- o panel discussions.

The FULL PAPERS papers at the workshop are grouped according to the theme they touch, as follows:

1. THEME: models, design and authoring: [1], [2]
2. THEME: adaptive assessment authoring: [3], [4]
3. THEME: authoring and converting: [5]
4. THEME: authoring evaluation: [6], [7]

The workshop also has a number of POSTER PAPERS, of work-in-progress, projects and idea-work on authoring of AEH [8],[9],[10],[11], so we hope for a lot of discussions.

The PANEL will be constituted of a number of invited researchers and well-known specialists on the field of AEH and A³EH, which will discuss a number of topics from the above list to be announced at: <http://www.wis.win.tue.nl/~acristea/AAAEH05/AIED2005.htm>

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Hope to seeing you all at the workshop!

The Workshop Co-chairs

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- [2] Harrie Passier & Johan Jeuring, Using Schema Analysis for Feedback in Authoring Tools for Learning Environments
- [3] Symeon Retalis, Petros Lalos, Creating personalised quizzes both to the learner and to the access device characteristics: the Case of CosyQTI
- [4] Paul Cristea, Rodica Tuduce, Automatic Generation of Exercises for Self-testing in Adaptive E-learning Systems: Exercises on AC Circuits
- [5] Alexandra Cristea, David Smits and Paul de Bra, Writing MOT, Reading AHA! - converting between an authoring and a delivery system for adaptive educational hypermedia -
- [6] Declan Dagger, Vincent Wade, Evaluation of Adaptive Course Construction Toolkit (ACCT)
- [7] Alexandra Cristea, Craig Stewart, Tim Brailsford and Paul Cristea, Evaluation of Interoperability of Adaptive Hypermedia Systems: testing the MOT to WHURLE conversion in a classroom setting
- [8] Valentin Cristea, Stefan Trausan-Matu, Authoring and delivering adaptable learning objects in SINTEC
- [9] Lichao Li, Judy Kay, The Cost of Authoring with a Knowledge Layer
- [10]. Ferrer-Roca, A. Figueredo, K. Franco, A. Diaz-Cardama, Telemedicine ontology for AIED
- [11] Vicente Arturo Romero Zaldivar, Jon Ander Eliorriaga Arandia, Mateo Jerónimo Lezcano Brito, New Features of the OPScript Language