Brazilian Proposal for Agent-Based Learning Objects Metadata Standard - OBAA

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Abstract. This paper presents the Agent Based Learning Objects - OBAA standard proposal. The main goal of the research was to establish a standardized specification of the technical and functional requirements of interoperable learning objects. In our context, interoperability regards the operation of the content inside Web, Digital TV and mobile environments, supporting accessibility and pedagogical issues. In this proposal it has been explored the convergence among the multi-agent systems, learning object and ubiquitous computing technologies, allowing the authoring, storage and recovery of learning object in varied contexts and through different digital platforms. The result of this research was the definition of the OBAA proposal containing the requirements, specifications and architectures that will compose the Brazilian standard for the management, transmission, storage, search, editing and use of interoperable learning object.

Keywords: Learning Objects, Agents, Metadata Standard, OBAA.

1 Introduction

The Learning Technology Standards Committee [3] defines a Learning Object as "any entity, digital or non-digital, which can be used, re-used or referenced during technology supported learning". These learning objects require metadata in order to be indexed, retrieved and reused in repositories, the Learning Object Repositoryies. The learning object metadata consists in a specification describing the educational content in terms of technical and pedagogical aspects. Wiley [11] considers that metadata are formed by a set of information to describe a resource using a standardized structure, making possible the retrieval and access of the learning object, i.e. data about the data.

Several authors use metaphors to explain metadata. Silva [12] for instance, compares it to labels identifying the contents of a learning object, describing how,

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Sabine Zange

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Metadata and Semantic Research Salvador Sanchez-Alonso,Ioannis N. Athanasiadis,2010-10-08 Metadata and semantic research is a growing complex ecosystem of conceptual theoretical methodological and technological frameworks offering innovative computational solutions in the design and development of computer based systems Within this perspective researchers working in the area need to further develop and integrate a broad range of methods results and solutions coming from different areas MTSR has been designed as a forum allowing researchers to present and discuss specialized results as general contributions to the field This volume collects the papers selected for presentation at the 4th International Conference on Metadata and Semantic Research MTSR 2010 held in Alcala de Henares a world heritage city and birthplace of Miguel de Cervantes at the University of Alcala October 20 22 2010 The first MTSR conference was held online in 2005 followed by two more editions in Corfu 2007 and in Milan 2009 The experience acquired during the past five years and the warm welcome of MTSR by the research community encouraged us to organize this new edition of the series and turn it into a yearly event According to the number and quality of the contributions submitted for revision our 2010 effort was again a considerable success   XIV Brazilian Symposium on Computer Graphics and Image Processing Díbio Leandro Borges,Shin-Ting Wu,2001 Annotation Consists of 47 papers and 38 posters presented at the October 2001 symposium The main areas of discussion are geometric modeling pattern classification scale space and multi resolution processing mathematical morphology image compression aerial interpretation medical images segmentation and feature extraction Topics include robust adaptive approximation of implicit curves high level verification of handwritten numeral strings image synthesis techniques for ocean animation skeletal muscle deformation using finite element analysis and wavelet compression of vector field visualization No subject index c Book News Inc   **The 3rd IEEE International Conference on Advanced Learning Technologies, 9-11 July 2003, Athens, Greece** Vladan Devedzic,2003   *Documentation Abstracts* ,1994

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