

Preface

There is a growing interest in providing technology-mediated lifelong learning services for all. Although an increasing number of the users interested in these services are adult learners and people with disabilities most available settings do not consider accessibility requirements. The lifelong learning paradigm recognizes that, in a knowledge based society, education and work are integrated throughout people's lives. In this context, technology is expected to attend the learning needs of the students in a personalized way. This paradigm features specific open issues that cannot be addressed by the mere application of other related field solutions. Thus, it is a hot research issue how to build and evaluate learning systems that adapt to the user needs and consider their functional diversity so that their accessibility needs are met.

TUMAS-A is a series of workshops aimed at fostering the research in learning environments that provide a personalized, accessible and ubiquitous support for their users using the appropriate technologies and standards. To accomplish these research goals from a multi-disciplinary approach, the TUMAS-A workshops are being organized in conjunction with relevant conferences from different but related fields. For this third edition, we considered that AIED community is an appropriate audience to obtain new insights on knowledge representation for learning systems that care for all users. The following topics from the main conference were proposed to be discussed in the workshop from the TUMAS-A perspective: 1) Modeling and Representation, 2) Learning Contexts and Domains, 3) Intelligent Technologies, and 4) Evaluation. The submissions received covered diverse issues from the above topics, such as adapting AIED tools, eLearning challenges for independent life, ontologies, models and standards to support personalized eLearning, analysis of interaction traces to feed adaptation with artificial intelligence techniques, and methodologies for evaluating accessible adaptable eLearning platforms based on competences.

The workshop is traditionally organized following the Learning Café methodology, which has been successfully proven at the past editions. The issues posed by the participants in their submissions are used as the starting point for interactive group discussions as established by the methodology.

Workshop organizers expect a wide participation from the AIED community.

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