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Abstract

**Distance Education Technologies:
Standards and Software Systems**

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Distance Learning software system is one of the most important research issues in the literature of multimedia network and distributed computing. This presentation starts from the discussion of current distance learning approaches, with a highlight of some standards, such as SCORM, IEEE LTSA, and others. The discussion will quote several important standard specifications related to SCORM, and point out a few issues that can be enhanced. A demonstration of the SCORM sample run-time environment by ADL will be given, followed by two software systems that we had developed. The first system is a courseware development and student assessment system, which is based on SCORM. The second system allows an instructor to record on-line video presentations, which can be export as SCORM objects. The demonstration will show how SCOs (Sharable Content Objects) can be reused. The presentation will point out current research issues in the standardization process of e-Learning, as well as possible future directions of distance education technologies. For a demonstration of our systems, the following Web site can be visited: <http://www.mine.tku.edu.tw/acm-mm-02-tutorial/>.