

## E-learning Systems (Sisteme de e-learning)

### 1. E-learning

1.1. Characteristics

1.2. Approaches

### 2. Standards

2.1. AICC – Aviation Industry CBT Committee

2.2. SCORM – Sharable Content Object Reference Model

2.3. IMS – Instructional Management System

2.4. IEEE LTSC – Learning Technologies Standards Committee

2.5. ARIADNE - Alliance of Remote Instructional Authoring & Distribution Networks for Europe

2.6. PROMETEUS – PROMoting Multimedia Access to Education and Training in European Society

### 3. E-learning Systems

3.1. Learning Management Systems (LMS)

3.2. Learning Content Management Systems (LCMS)

3.3. Virtual Learning Environment (VLE)

### 4. Intelligent Tutoring Systems

4.1. Structure

4.2. Use in practice

### 5. Examples

5.1. Agent-based Systems (Steve, Adele)

5.2. Adaptive E-learning

5.3. Collaborative E-learning

## Bibliografie

[1] E-Learning, <http://en.wikipedia.org/wiki/E-Learning>, available September 2011.

- [2] Sarat Chandra Babu - E-learning Standards, National Seminar on “E-learning & E-learning Technologies”, Eletech, India, August 7-8<sup>th</sup>, 2001.
- [3] Aviation Industry Computer-Based Training Committee, [http://en.wikipedia.org/wiki/Aviation\\_Industry\\_Computer-Based\\_Training\\_Committee](http://en.wikipedia.org/wiki/Aviation_Industry_Computer-Based_Training_Committee), accessed September 2011.
- [4] AICC - CMI Guidelines for Interoperability, AICC CMI Subcommittee, version 4.0, 2004.
- [5] Sharable Content Object Reference Model, <http://en.wikipedia.org/wiki/SCORM>, accessed September 2011.
- [6] Content Aggregation Model (CAM), Advanced Distributed Learning, SCORM 2004 4<sup>th</sup> Edition, version 1.1, 2009.
- [7] Run-Time Environment (RTE), Advanced Distributed Learning, SCORM 2004 4<sup>th</sup> Edition, version 1.1, 2009.
- [8] Sequencing and Navigation (SN), Advanced Distributed Learning, SCORM 2004 4<sup>th</sup> Edition, version 1.1, 2009.
- [9] IMS Global, [http://en.wikipedia.org/wiki/IMS\\_Global](http://en.wikipedia.org/wiki/IMS_Global), accessed September 2011.
- [10] IMS Global Learning Consortium, Specifications and Adoption Practices, <http://www.imsglobal.org/specifications.html>, accessed September 2011
- [11] Ariadne (software), [http://en.wikipedia.org/wiki/Ariadne\\_%28software%29](http://en.wikipedia.org/wiki/Ariadne_%28software%29), accessed September 2011
- [12] Eddy N. Forte, ARIADNE - Alliance of Remote Instructional Authoring and Distribution Networks for Europe, ERCIM News, no.33/April 1998, [http://www.ercim.eu/publication/Ercim\\_News/enw33/forte.html](http://www.ercim.eu/publication/Ercim_News/enw33/forte.html), accessed September 2011
- [13] Learning Management System, [http://en.wikipedia.org/wiki/Learning\\_management\\_system](http://en.wikipedia.org/wiki/Learning_management_system), accessed September 2011.
- [14] Virtual Learning Environment, [http://en.wikipedia.org/wiki/Virtual\\_learning\\_environment](http://en.wikipedia.org/wiki/Virtual_learning_environment), accessed September 2011.
- [15] Intelligent Tutoring System, [http://en.wikipedia.org/wiki/Intelligent\\_tutoring\\_system](http://en.wikipedia.org/wiki/Intelligent_tutoring_system), accessed September 2011.
- [16] Jeff Rickel, Intelligent Virtual Agents for Education and Training: Opportunities and Challenges, Third IVA 2001 - International Workshop on Intelligent Virtual Agents, Madrid, Spain, LNCS 2190, Springer-Verlag Berlin Heidelberg, 2001.

[17] Jeff Rickel, Lewis Johnson, STEVE: A Pedagogical Agent for Virtual Reality, Second International Conference on Autonomous Agents, Minneapolis/St. Paul, ACM Press, 1998.

[18] Lewis Johnson, Erin Shaw, Rajaram Ganeshan, Pedagogical Agents on the Web, AGENTS '99 - Third Annual Conference on Autonomous Agents, Seattle, WA, USA, ACM Press, 1999.