

# Cross Media Learning Management System

The Cross Media Learning Management Systems, XLMS, of the DISIT Lab, is a solution for a distance and continuous learning, based on social media technologies. The proposed solution is innovative thanks to several technological innovations: (i) collaborative and social models for distance learning, e-learning, so as to allow the creation of new knowledge via the interaction among people and with the tutor/teacher, without the formal barriers always there in the traditional teacher-led classes and related educational models; (ii) exploitation of intelligent content model for the production of enhanced ebooks with respect to the state of the art solutions; they include: interactive parts, calculators, animations, video, glossary, playable formulas, flow charts procedures; the intelligent content can be accessed (online and offline) on PC and on mobiles such as iPad, iPhone, Tabs, Android, etc., to be exploited by students, who can perform a full search into the mobile applications able to access and manage the wide range of content items; (iii) exploitation of a multichannel e-learning model to allow the students to use PC and mobiles to perform studying and reviewing activities so as to assure a pervasive and continuous learning while travelling, at home and at school in a seamless manner; (iv) usage of tools for both content aggregation and semantic annotations of audio visual content, creating personal collection and playlists but also allowing the recording and sharing of navigation experiences among audiovisual annotations; this innovation is enforced by the MyStoryPlayer solution <http://www.mystoryplayer.org> and it allows the creation of non linear stories experiences to teach and learn in a collaborative way. The innovation proposed is the basis for the following solutions: <http://www.eclap.eu>, <http://mobmed.axmedis.org>, and <http://idraulica.fupress.com>.

## DIPARTIMENTO DI SISTEMI E INFORMATICA, UNIVERSITÀ DEGLI STUDI DI FIRENZE

The Department of Systems and Informatics of the University of Florence, includes a number of research labs; among them the DISIT Lab (Distributed Systems and Internet Technology, <http://www.disit.dsi.unifi.it>) is one of the most active in the areas of research and innovation such as: distributed systems, cross media content, distributed multimedia systems, mobile computing, media grid computing, semantic computing, symbolic music, e-learning and distance learning, e-health, semantic models, recommendations. DISIT Lab has been working on several international research projects, development and innovation projects and on technology transfer contracts. Activities are performed in collaboration with international labs and industries, and with the support of standardization bodies such as ISO MPEG. The DISIT Lab has managed to produce innovative solutions and tools which were downloaded thousand times per month, along a very long time span . DISIT Lab has received many awards, acknowledgments and positive reviews by international institutions and enterprises, and as well as by international agencies for technology innovation and research exploitation for Media Grid Computing solutions, electronic music stands, mobile solutions, social networking, etc. Recently, the DISIT Lab has started the process to set up a spin-off in the framework of the Florence University Incubator, called EffectiveMedia, where skilled experts of DISIT are engaged. The whole set of 4 innovations proposed by DISIT has been selected.

### Contact:

- Paolo Nesi, [nesi@dsi.unifi.it](mailto:nesi@dsi.unifi.it)
- Website: <http://www.disit.dsi.unifi.it>
- Via S. Marta 3 - 50139 Firenze, Italy