Towards learning personalization and adaptation in social contexts

ORPHÉE — Le réseau d'e-Éducation
EC-TEL French Corner

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Lab-STICC lab

In our team, we are interested in the personalization of e-learning environments (MOOCs, PLEs,…) in social contexts where learning takes place, everywhere and anywhere, through learners interactions and communication with others. We focus on contents, activities, and collaboration We illustrate our ideas through four projects described below.

Expertise

- Knowledge Engineering
- Ontologies
- Semantic web, Linked data
- Context management and Adaptation
- Learner's model
- MOOCs
- Inquiry-Based Learning

The ANR HUBBLE Project

- HUBBLE: HUman oBservatory Based on anaLysis of e-LEarning traces
- Goal: creation of an observatory for the construction and sharing of analysis processes of massive e-learning traces.
- Our involvement:
  - Analysis of learner's traces in order to offer personalized instructional scenarios
  - Personalized activities
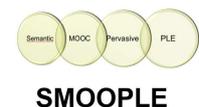 - Personalized Learning dashboards: contextual dashboard, dynamic dashboard.

HUBBLELEARN — e-learning traces observatory

The ITEA 2 MOOCTab Project

MOOC Tab — MASSIVE OPEN ONLINE COURSE TABLET

- MOOCTab: Massive Open Online Course TABlet
- Goal: creation of a tablet based platform dedicated to the lifelong learning (primary, secondary, higher, and continuous) using an on-demand MOOC platform
- Our involvement:
  - Personalized learning system based on Knowledge Map and learners 'models (Bayesian Networks)
  - Adaptation, personalization, and recommendation of MOOC courses.

The SMOOPLE Project

- SMOOPLE: Semantic Massive Open Online Personalized Learning Environment)
- Goal: creation of a Semantic, Adaptive & Personalized MOOC
- Our involvement :
  - Adaptive personal learning environment
  - Self regulated learning sequences
  - Collecting learner tracks in HUBBLE project

Semantic MOOC Pervasive PLE
SMOOPLE

The ANR Orphée Project *(French Network of Excellence)*

- Goal: structuring Technology-Enhanced Learning (TEL) stakeholders communities in order to leverage the synergy of partners to successfully take up TEL challenges, with effective and sustainable results.
- Our involvement (project leadership):
  - Partnership development with the TEL industry in adaptation perspectives for example
  - Content provision for online courses with theoretical, technical and practical content (e.g. MOOCs)
  - Connections development between the French and the international research communities

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