

Recommending Open Education Resources (OER) to On-line Learners



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LORIA lab, KIWI Team

- “Lorraine Research Laboratory in Computer Science and its Applications”
- A research unit, common to CNRS, the University of Lorraine and INRIA
- 500 people working in the lab
- 27 teams (*KIWI team is one of them*)
- www.loria.fr

Expertise / Keywords

- Decision under uncertainty
- User modeling
- Personalized on-line services
- Recommender systems
- E-education, e-learning
- Adaptive Learning

Key Ideas

- More than 30,000 OERs developed by universities and available via the portals of 8 Thematic Digital Universities in France (UNT)
- These OER are potentially under-used, specially by the students
- Including a OER Recommender System into the private digital environment of the education institutions
 - Help students with complementary resources
 - Personalize recommendation (different resources for each student)
 - Adapt recommendation (resources depending on his current pedagogical interest)

Main issues

- Tracking issues
 - Sensor technology & Collecting data
 - Standardization
 - Privacy and Legal...
- Algorithm issues
 - Semantic
 - Social algorithm
 - Performance (Precision, Real Time,...)
- User-centered issues
 - Acceptability (Student & Teachers)
 - Diversity
 - User interface...

Results and Future Work

- Recommender System
 - Open Source Software
 - Including: Sensors, Data manager server and Recommendation engine
- Evaluation
 - Real time
 - User-centered (Panel of students)
- On-going
 - Large scale deployment (at UL)
 - Online evaluation
- Future works
 - New algorithms

PERICLES

<http://v2.e-pericles.org>



Sample



Contributors

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