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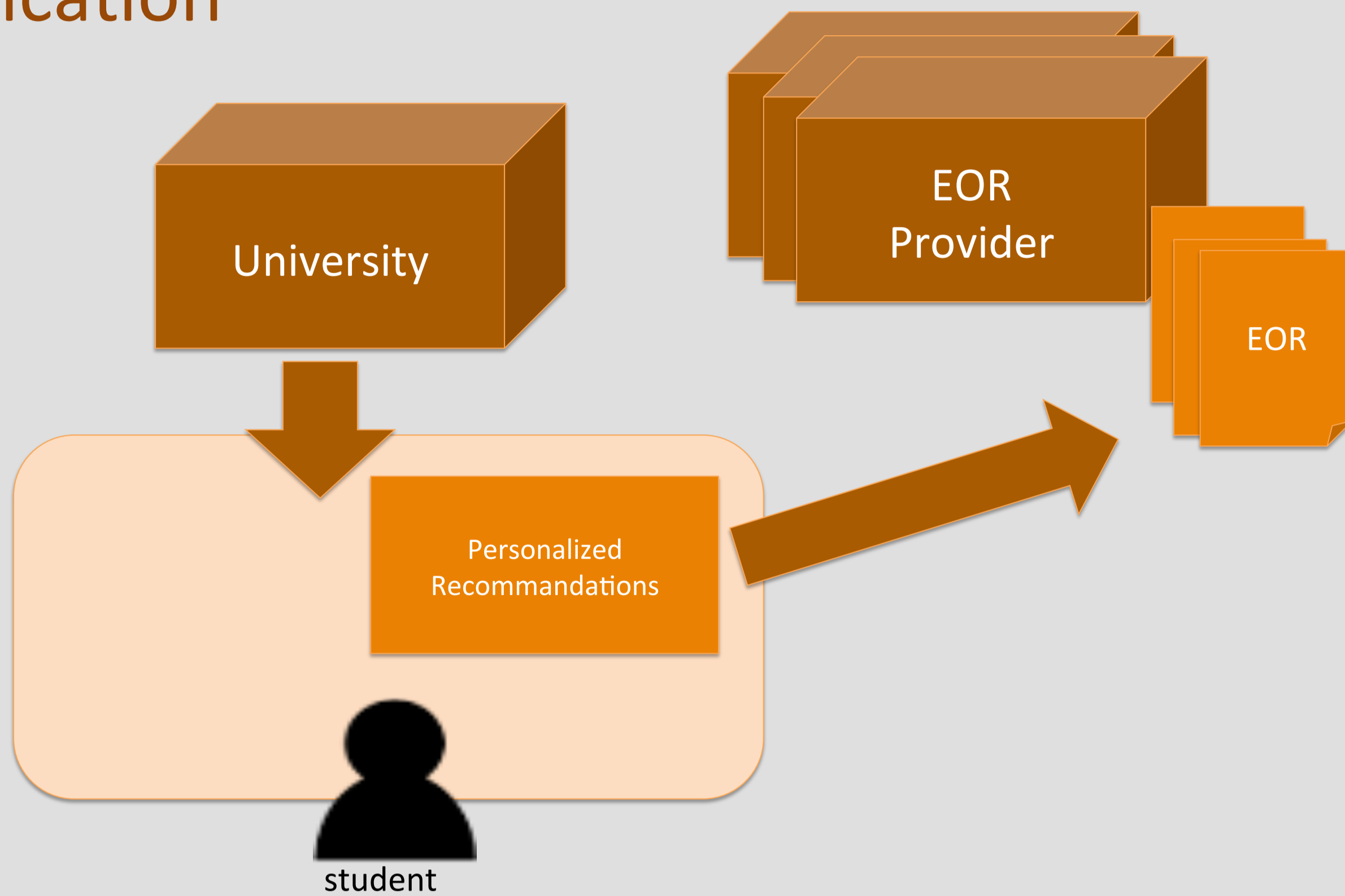
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Bringing Personalized Recommendations of Open Educational Resources into the Student Private Digital Learning Environment

Azim Roussanaly-LORIA/KIWI Team

Application



Objective

Adapting recommender systems to e-education context in order

- ◆ to pre-select resources a learner might be interested corresponding to
 - his targeted competency
 - complementary resources of his current curriculum
 - the successful experience of other users...
- ◆ to facilitate the access to the relevant resources by displaying them directly into the personal digital environment of the student

General Framework :

The PERICLES Project

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

Ongoing project ended in 2016



Partners:

altran



Research issues

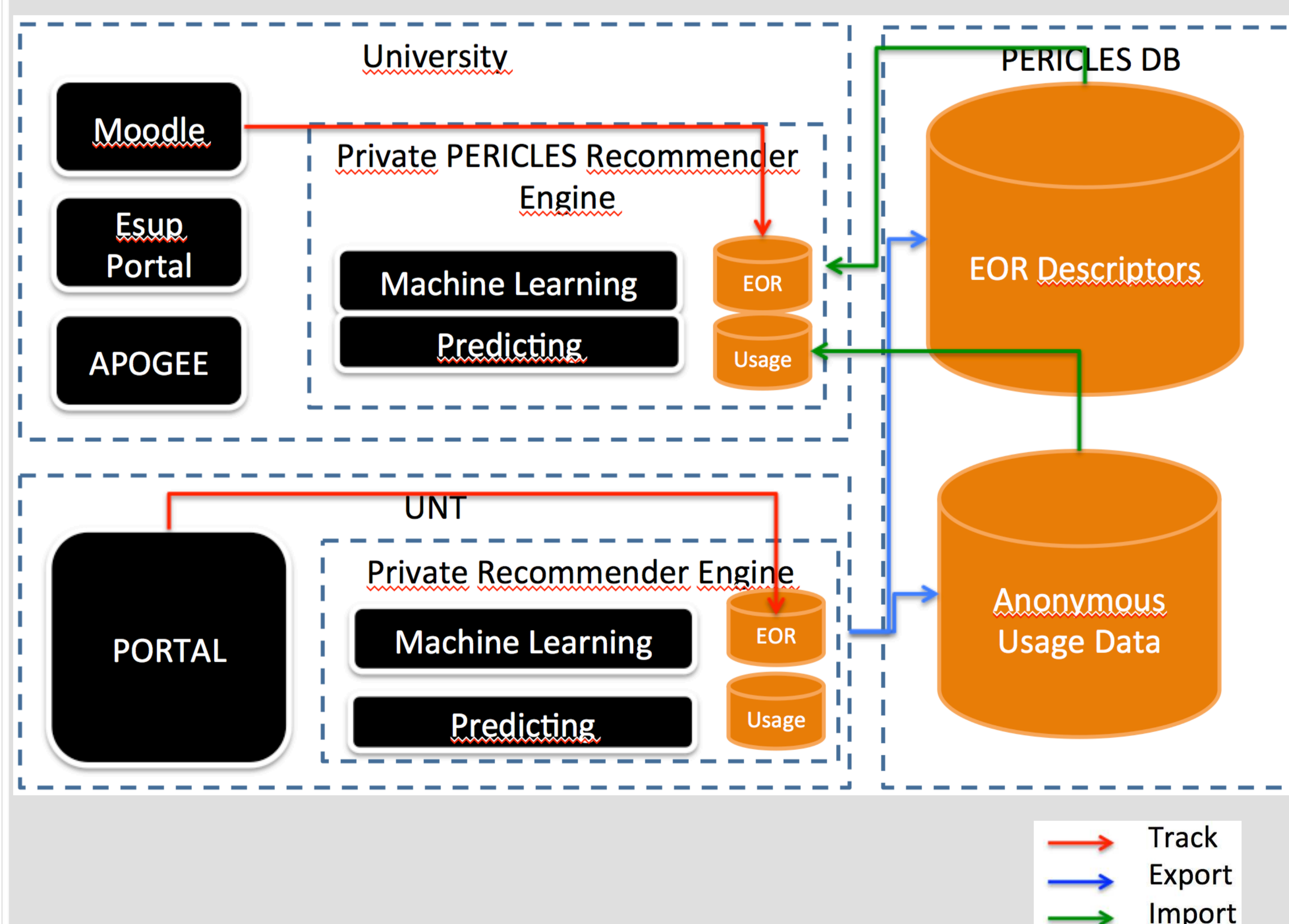
Domain: **Technology Enhanced Learning [1]**

Personal recommender systems strongly depend on the context or domain they operate. It is often not possible to take one recommender system with a specific purpose from one context and transfer it to another context or domain. Recommender systems have to be adjusted to the specific characteristics of e-learning

Main features [2]

- ◆ Complex Goal: not only purchasing an item but proposing relevant learning path
- ◆ Cross-platform: the OER portal users behaviors have to be merged with students profile at the university platform
- ◆ Privacy issues: this have consequence on the availability of data and their heterogeneity
- ◆ Quality issues: acceptability strongly depends on the quality of recommendations

Architecture



References

- [1] H. Drachsler, H. G. K. Hummel, and R. Koper, "Identifying the Goal, User model and Conditions of Recommender Systems for Formal and Informal Learning" *Journal of Digital Information*, vol. 10, no. 2, Jan. 2009.
- [2] N. N. Chan, A. Roussanaly, and A. Boyer, "Learning Resource Recommendation: An Orchestration of Content-Based Filtering, Word Semantic Similarity and Page Ranking," *Open Learning and Teaching in Educational Communities*, vol. 8719, C. Rensing, S. de Freitas, T. Ley, and P. J. Muñoz-Merino, Eds. Springer International Publishing, 2014