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A hybrid knowledge-based recommender system for e-learning based on ontology and sequential pattern mining

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***Highlights (for review)**

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- A hybrid knowledge-based approach for recommending learning resources.
- Ontology and sequential pattern mining used to incorporate additional learner data.
- Using ontological knowledge and SPM to alleviate cold-start and sparsity problems.
- Experiments on a real world dataset show good performance.

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