DATA-DRIVEN STUDY: AUGMENTING PREDICTION ACCURACY OF RECOMMENDATIONS IN SOCIAL LEARNING PLATFORMS

RQ1: How to generate more accurate recommendations by taking into account user interactions in social learning platforms?
RQ2: Can the use of the graph walking algorithms improve the process of finding like-minded users within a social learning platform?

Research methodology
1- Conceptual model
2- Offline data study ✓
3- User study
4- Go online

Offline data study
- Classical collaborative filtering based on nearest neighbors, beside a graph-based approach
- Three datasets similar to the ODS data plus MovieLens

Degree centrality of first 10 central users

F1 score of different user-based collaborative filtering algorithms

SOUDE FAZELI
HENDRIK DRACHSLER
PETER SLOEP
OPEN UNIVERSITEIT NEDERLAND
FIRSTNAME.LASTNAME@OU.NL