Recommender Systems for Task Distribution

Win-Win situation for worker and employer
- Unsupported task selection by workers results in the assignment of over- and underqualified workers
- Task recommendation supports workers in their decision and increases the quality for the task requester
- Textual attributes can be leveraged to find similarities in task descriptions

Textual attributes for meaningful recommendation
- Markets are too dynamic for pure collaborative filtering
- Recommender have to be adapted to dynamics of the market, the requirements of the tasks and aspects of the worker.
- Suitable textual similarities have to be identified to extract semantic relatedness

Recommender systems based on semantic similarities
- Job posting recommendation based on word embeddings and cluster preselection
- Project staffing based on skill extraction from text
- Design, implementation and evaluation of specific similarity measures to enable recommender systems ("required action")