

Business Intelligence Seminar: New User Problem in Recommender Systems

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Agenda

- Organization
- Topic
- Schedule
- Papers

Organization

- Home page of the seminar:
http://www.ismll.uni-hildesheim.de/lehre/semMSc-12w2/index_en.html
- Talks can be either in English/German
- Seminar on weekly-basis
- One talk per participant @ approx. 60 minutes
 - Could also be split in two talks. One as an introduction presenting the main points, the other picking up the main points and advancing from them
- Up to 30 minutes left for discussion

Organization

- Marks will be based on
 - presentation (including answers to questions),
 - seminar paper,
 - general participation (e.g., asking questions).
 - Bonus for own experiments or implementations.
- Every student should send his draft presentation to me three days before his talk and discuss the slides with me (if necessary).

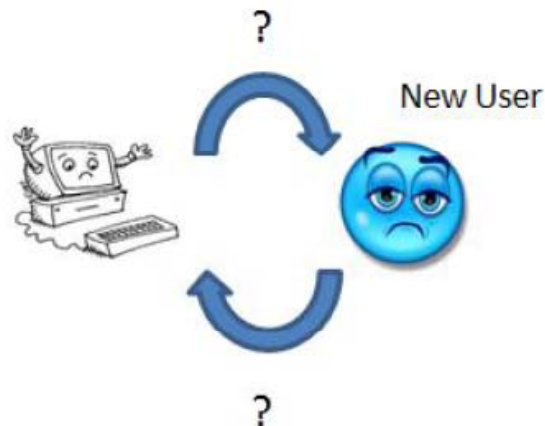
Organization

- seminar papers due: 4 weeks after term end
- Between 20 to 30 pages in English/German
 - formatting: no strict rules, just common-sense: A4 paper, 12pt, usual text width
- 1x everything on CD-ROM
 - seminar paper and slides (LaTeX/Word/... sources and pdf)
 - programs: source code
 - papers & other materials used for the presentation etc. in PDF format
- 3x printed and bound copy

New User Problem in Recommender Systems



Recommendation



Schedule

- The first presentation in two weeks
- Then every week
- The order of the presentation is based on alphabetical order

Student	Data	Paper
Ronny Fenske	15/11/2012	2 short papers
Patrick Jahne	22/11/2012	Active Collaborative Filtering
Lars Kunnemann	29/11/2012	Functional Matrix Factorizations for Cold-Start Recommendation
Jekaterina Panfilova	6/12/2012	Learning Preferences of New Users in Recommender Systems: An Information Theoretic Approach
Florian Schmedes	13/12/2012	Personalised Rating Prediction for New Users Using Latent Factor Models
Katrin Sklorz	20/12/2012	Naive Filterbots for Robust ColdStart Recommendations
Karina Trohymcyk	1 week after Christmas	Pairwise Preference Regression for Cold-start Recommendation
Moritz Wichmann	2 weeks after Christmas	Personalized Active Learning for Collaborative Filtering
Nick Zagy	3 weeks after Christmas	Adaptive Bootstrapping of Recommender Systems Using Decision Trees

Papers

- Y. Seroussi, F. Bohnert, I. Zukerman, Personalised rating prediction for new users using latent factor models, HT '11 Proceedings of the 22nd ACM conference on Hypertext and hypermedia, 2011
- C. Boutilier, R.S. Zemel, B. Marlin. Active Collaborative Filtering, In Proceeding of Uncertainty in Artificial Intelligence, UAI, 2003
- A. S. Harpale, Y. Yang. Personalized Active Learning for Collaborative Filtering, In Proceedings of the 34th international ACM SIGIR conference on Research and development in Information Retrieval, SIGIR 2008

Papers

- A. M. Rashid, G. Karypis, and J. Riedl. Learning Preferences of New Users in Recommender Systems: An Information Theoretic Approach. SIGKDD Workshop on Web Mining and Web Usage Analysis, 2008
- N. Golbandi, Y. Koren, and R. Lempel. Adaptive bootstrapping of recommender systems using decision trees. WSDM, 2011.
- K. Zhou, S.-H. Yang, and H. Zha. Functional matrix factorizations for cold-start recommendation. In Proceedings of the 34th international ACM SIGIR conference on Research and development in Information Retrieval, SIGIR , 2011.

Papers

- S. Park, D. Rennock, O. Madani, N. Good, D. Decoste, Naive Filterbots for Robust ColdStart Recommendation, KDD, 2006
- N. Golbandi, Y. Koren, R. Lempel, On Bootstrapping Recommender Systems, CIKM, 2010
- N. Rubens, M. Sugiyama, Influence-based Collaborative Active Learning, RecSys, 2007
- S. T. Park, W. Chu, Pairwise Preference Regression for Cold-start Recommendation, RecSys 2009