Recommendation Systems

A door to the future of service quality

By Karagiannidis Savvas -Auth ACM Student Chapter

What is a Recommender?

- An algorithm that creates a user model based on his activity in a system ...
- Close relations to:
 - Machine Learning
 - Data Mining
 - Information Retrieval

•••

Current needs on services.

- The field of Recommendation Systems aim to satisfy certain needs that came up in today's society:
 - Speed
 - Correlation
 - Information Overload
 - Evolution
 - Uncertainty

Needs satisfied by RS

- **Speed:** In information retrieval, queries have to be explicitly stated. In RS, that is not required.
- **Correlation:** Information correlate but interests and users did not. RS covers that need, providing the missing connection.
- **Information Overload:** Too much data, yet very little time. Filtration is provided through what a user will probably like.

Needs satisfied by RS

- Evolution: A user is not a static entity. A person changes and evolves. RS through correlation with other users and interests can predict and facilitate the evolution.
- Uncertainty: A user cannot always remember what he likes at any given moment. RS will however, providing him with appropriate recommendations.

Examples of successful RS

- Video Recommendations
 - YouTube!
- Social Recommendations
 - LinkedIn
 - Facebook
- Item Recommendations
 - Amazon
- Movies Recommendations
- Music Recommendations

•

A rapidly evolving and expanding field

- Recommenders evolve as internet spreads and enters our everyday activities.
- ACM RecSys, since 2005-2006. 5 years running in Europe and the United States of America.
- Ever increasing number of conference attendees and scientists of the field.

RS in our chapter

Goals:

- Provide a source of information relevant with the field.
- Encourage computer scientists to get involved with the field of Recommendation Systems.
- Provide feedback on the latest advances.
- Plan events centered on presenting ideas and future works on the field.
- Organize and develop ideas inside the chapter.
- And many more...

Thank you for watching!

Karagiannidis Savvas

sakaragi@csd.auth.gr