

2nd FATREC Workshop

Responsible Recommendation

October 6 (Saturday) @ Parq C room
In conjunction with the RecSys 2018

Topics of Interest

- ◆ **Responsibility**: what does it mean for a recommender system to be socially responsible?
- ◆ **Fairness**: what might 'fairness' mean in the context of recommendation? How could a recommender be unfair, and how could we measure such unfairness?
- ◆ **Accountability**: to whom, and under what standard, should a recommender system be accountable?
- ◆ **Transparency**: what is the value of transparency in recommendation, and how might it be achieved?
- ◆ **Compliance**: how should recommendation algorithms be designed to adhere the laws or regulations, such as the EU GDPR or the IEEE EAD?
- ◆ **Safety**: how can a recommender system distorts users' opinions? what is required to be resilient to such a distortion?

Organizing Committee



Pierre-Nicolas Schwab

Solvay Brussels School of
Economics and Management



Toshihiro Kamishima

National Institute of Advanced
Industrial Science and Technology
(AIST)



Michael D. Ekstrand

Boise State University

Steering & Program Committees

Steering Committee

- ◆ Amit Sharma (Microsoft Research)

Program Committee

- ◆ Solon Barocas
- ◆ Augustin Chaintreau
- ◆ Dan Cosley
- ◆ Henriette Cramer
- ◆ Krishna Gummadi
- ◆ Daniel Kluver
- ◆ Bart Knijnenburg
- ◆ Dimitris Paraschakis
- ◆ Sole Pera
- ◆ Christo Wilson

Review

- ◆ Submissions: 14
 - ◆ Research 6, Position 8
- ◆ Acceptance: 10 (71.4%)
 - ◆ Research 4, Position 6
- ◆ Each article is reviewed by two reviewers, and is additionally reviewed by the third reviewer in a case of the split decision
- ◆ No official proceeding is published, and all the article can be accessible from the workshop Web site

Keynote Talk

What Does it Mean for an Algorithm to be Ethical? Connecting Ethics to Policy and Design



Drawing from relevant studies and publications such as the IEEE Ethically Aligned Design guidelines and UK government's data ethics framework, this talk will begin with a broad discussion of the critical algorithmic ethics issues. The speaker will also present some of the practical steps to address these issues.

Shalaleh Rismani

Generation R; and Open Roboethics Institute

Special Talk

European Public Broadcasters Path towards Public Service Recommender Systems



We will cover the efforts undertaken by the European Broadcasting Union (EBU) to promote the use of recommender systems among its members on the first hand, and to promote public service values on the other hand.

Pierre-Nicolas Schwab

the Chairman of the Big Data Initiative,
European Broadcasting Union

Program (morning)

Session 1 (9:00 – 10:30)

- Opening
- Using Image Fairness Representations in Diversity-Based Re-ranking for Recommendations
Chen Karako, Putra Manggala
- Fairness-Aware Recommendation of Information Curators
Ziwei Zhu, Jianling Wang, Yin Zhang, James Caverlee
- A Fairness-aware Hybrid Recommender System
Golnoosh Farnadi, Pigi Kouki, Spencer K. Thompson, Sriram Srinivasan, Lise Getoor
- Personalizing Fairness-aware Re-ranking
Weiwen Liu, Robin Burke

Session 2 (11:00 – 12:30)

- **Special Talk:** European Public Broadcasters Path towards Public Service Recommender Systems
Pierre-Nicolas Schwab, the Chairman of the Big Data Initiative, European Broadcasting Union, Geneva, Switzerland
- The Case for Public Service Recommender Algorithms
Benjamin Fields, Rhia Jones, Tim Cowlshaw

Program (afternoon)

Session 3 (14:10 – 15:30)

- “Let Me Tell You Who You are” — Explaining Recommender Systems by Opening Black Box User Profiles
David Graus, Maya Sappelli, Dung Manh Chu
- Fair Lending Needs Explainable Models for Responsible Recommendation
Jiahao Chen
- Synthetic Attribute Data for Evaluating Consumer-side Fairness
Robin Burke, Jackson Kontny, Nasim Sonboli
- The Role of Differential Privacy in GDPR Compliance
Rachel Cummings, Deven Desai (presented by Yatharth Dubey)

Session 4 (16:00 – 18:00)

- Assessing and Addressing Algorithmic Bias — But Before We Get There
Jean Garcia-Gathright, Aaron Springer, Henriette Cramer
- **Keynote Talk:** What Does it Mean for an Algorithm to be Ethical? Connecting Ethics to Policy and Design
Shalaleh Rismani, Generation R; and Open Roboethics Institute