



ACM SIGCHI Summer School on Recommender Systems

Free University of Bozen, Italy

<http://pro.unibz.it/projects/schoolrecsys17/>



Welcome

- Over 110 participants
- 16 speakers/lecturers
- 10 different topics
- 1 Doctoral Symposium



Free University Bozen-Bolzano

- Trilingual – English – German – Italian
- Young – celebrating 20 years
- International – 10th Position in THE 2017 Best Small University Rank



2017 Best Small University Rank	University	Country	Total students	WUR rankings 2016-2017
1	California Institute of Technology	US	2181	2
2	École Normale Supérieure	France	1548	66
3	Pohang University of Science and Technology	South Korea	3017	=104
4	École Polytechnique	France	2669	=116
5	Scuola Normale Superiore di Pisa	Italy	545	=137
6	Scuola Superiore Sant'Anna	Italy	679	=190
7	École Normale Supérieure de Lyon	France	2238	201-250
8	Indian Institute of Science	India	3398	201-250
9	Swedish University of Agricultural Sciences	Sweden	3838	251-300
10	Free University of Bozen-Bolzano	Italy	2813	251-300

Faculty of Computer Science

- 5 Degree programs
 - Bachelor in Computer Science
 - European Master in Software Engineering
 - European Master in Computational Logic
 - Master in Data Science (starting 2018)
 - PhD program
- 17 professors and 22 junior/assistant professors
- 3 Research centres
 - Information and Database Systems Engineering (IDSE)
 - Knowledge and Data (KRDB)
 - Software and Systems Engineering (SwSE)

History

- 2006 strands Summer School on Recommender Systems
- 2007 First ACM Conference on Recommender Systems
- 2016 Tenth ACM Conference on Recommender Systems
- 2017 SIGCHI Summer School on Recommender Systems
 - Funded by specialized conferences development fund of SIGCHI
 - Preceding main conference in Como

Contents 1/2

- MON: Beyond the Algorithms (Dietmar Jannach)
- MON/TUE: Deep Learning for RS (Balázs Hidasi)
- TUE: Matrix and Tensor Factorization (Panagiotis Symeonidis)
- TUE/THU: Affect and Personality-Based RS (Marko Tkalčič)
- WED: Evaluation of RS Research (Guy Shani)
- WED: UX and RS (Bart Knijnenburg & Shlomo Berkovsky)

Contents 2/2

- THU: Group RS (Judith Masthoff)
- THU: Scalable RS in Industry (Xavier Amatriain)
- FRI: Recent Developments of Content-Based RS (Gianni Semeraro, Marco De Gemmis, Pasquale Lops, Cataldo Musto & Fedelucio Narducci)
- FRI: Tools and Replication of RS Research (Alan Said & Alejandro Bellogin)
- FRI: Doctoral Symposium (Robin Burke & Bart Knijnenburg)

Hands-on sessions

- Lecturers will do practical exercises
- Prepare by doing installations and follow their guidelines
- See program page:
<http://pro.unibz.it/projects/schoolrecsys17/program.html>

Organizational Issues

- Program starts TUE to FRI at 8:15
- Lunch break at 12:45, Mensa directly at the main entrance
- Coffee breaks at 10:15 and 16:00 (food/drinks remain there until the evening)
- Tickets for full lunch menu: (2 courses, side dishes, fruits, bread + drinks)

Mensa

- Mensa is located opposite of the main entrance



Rooms

- Now and Tuesday to Friday: D0.01 (Aula Magna)
 - Coffee breaks TUE to FRI also at ground floor

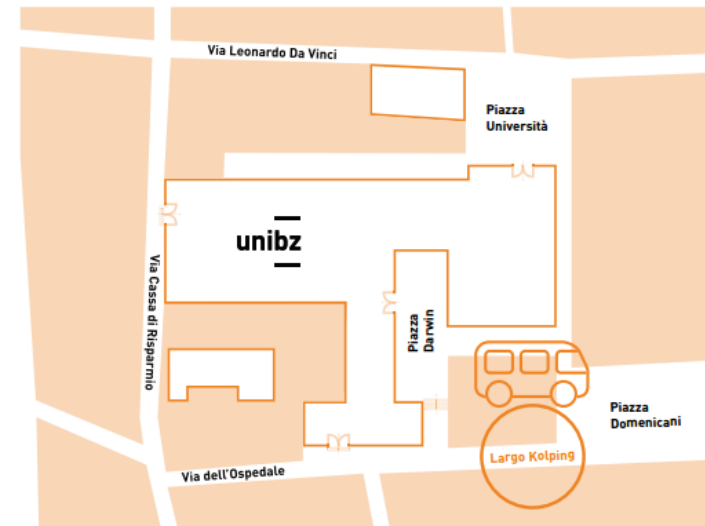


- Monday 14:00 – 18:30: D1.01
 - Coffee breaks ONLY today at first floor (opposite of reception desk)



Social Dinner

- Thursday evening
- Haselburg, medieval castle in Bolzano
- Shuttle leaves at 19:00 in front of Kolping



WIFI

- openAiR – free access for everyone
- eduroam – university credentials
- Power plugs in every row in D1.01, in Aula Magna D0.01 additional distributor cables available from tomorrow on

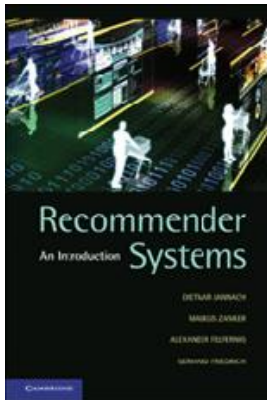
In case of any questions

- Come and see us:
 - Registration desk (first floor)
 - Student volunteers (unibz T-Shirts)
- Organizers
 - Robin Burke
 - Francesco Ricci
 - Markus Zanker



More than Algorithms

- Prof. Dietmar Jannach
 - Full professor TU Dortmund, Germany
 - Heads e-service research group
 - Moving to AAU Klagenfurt, Austria



review articles

DOI:10.1145/2891408
The future success of these systems depends on more than a Netflix challenge.

BY DIETMAR JANNACH, PAUL RESNICK, ALEXANDER TUZHILIN, AND MARKUS ZANKER

Recommender Systems—Beyond Matrix Completion



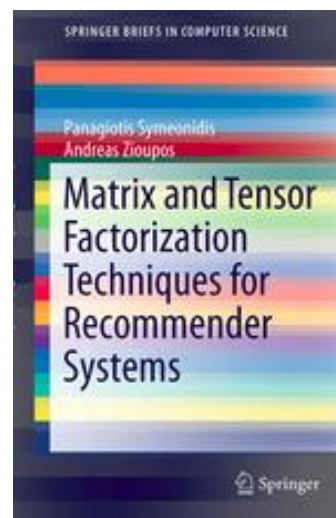
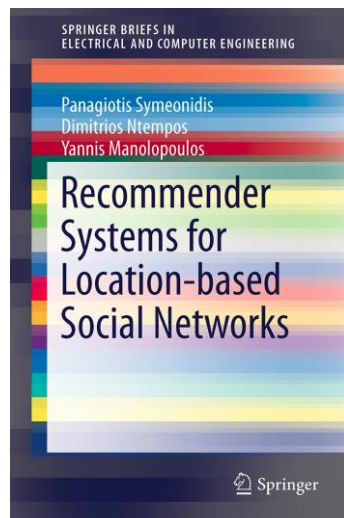
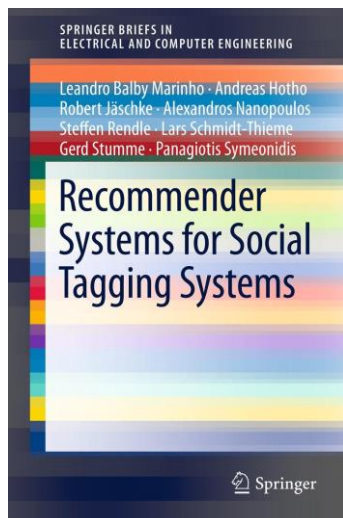
Deep Learning

- Balázs Hidasi
 - Head of Data Mining and Research in Gravity RD, Hungary
 - Pioneer of deep learning methods in RS
 - Organizer of Deep Learning for RS Workshops at RecSys'16 and RecSys'17



Matrix and Tensor Factorization

- Assistant professor at Free University of Bozen-Bolzano, Italy
- Before he had a position at Aristotle University of Thessaloniki
- Authored several books on the topic of RS



Affect and Personality-Based RS

- Assistant professor at Free University of Bozen-Bolzano, Italy
- Before he had positions at University of Lubljana and Kepler University Linz
- Well-known for his research on how emotions and personality can be exploited for improving personalization



Evaluation of RS research

- Full professor at Ben Gurion University, Israel, Software and Information Systems department
- Before he had a positions at Microsoft Research in the ML and Statistics group
- Focuses on novel applications of ML and user interfaces for RS as well as the evaluation of these systems



User Experience and RS

- Bart Knijnenburg
 - Assistant professor at the Clemson University School of Computing
 - Co-director Humans-And.Technology Lab (HAT)
 - User-centric RS research
 - PhD at Ucal, Irvine
- Shlomo Berkovsky
 - Principal researcher at CSIRO, Australia
 - Leader of Interactive Behavior Analytics team



Group Recommender Systems

- Chair in Computing Science at the University of Aberdeen
- Well-known scholar for research in personalization and intelligent user interfaces
- Renowned publications on group RS and explanations of recommendations
- Editor-in-Chief of User Modeling and User-Adapted Interaction journal, Springer and director of User Modeling Inc.



Scalable RS in Industry

- Co-founder and CTO of Curai, stealth healthcare/AI company
- Before VP of Engineering at Quora and Research/Engineering director at Netflix
- In academia research scientist at Telefonicà Research and director at UCSB
- Well-known for his work in ML in general and in RS in particular, general chair of RecSys'10 in Barcelona



Recent Developments of Content-Based RS

- Gianni Semeraro
 - Full professor at University of Bari, Italy
- Pasquale Lops, Marco de Gemmis and Cataldo Musto
 - Assistant professors at University of Bari
- Fedelucio Narducci
 - PostDoc researcher at University of Bari
- Well-known research group in the field of RS with a focus on language processing and content descriptions
- Numerous renowned publications, organizers of conferences, workshops and special issues on these topics



Tools and Replication of RS

- Alan Said
 - University of Skövde, Sweden
 - Previous positions in industry (Recorded Future) and academia (TU Delft)
 - PhD from TU Berlin
- Alejandro Bellogin
 - Lecturer at Universidad Autónoma de Madrid
 - Previously post-doc at Centrum Wiskunde & Informatica (Arjen de Vries)
 - PhD under supervision of Pablo Castels and Ivan Cantador

