IIR 2017
8th Italian Information Retrieval Workshop

Lugano, Switzerland
June 05-07, 2017

2017

Program

Università
della
Svizzera
italiana

**Faculty
of Informatics**

www.iir2017.usi.ch

Welcome Message

Welcome to this **8th edition of IIR, the Italian Information Retrieval Workshop (IIR 2017)**.

The purpose of the **Italian Information Retrieval Workshop** (IIR) is to provide a meeting forum for stimulating and disseminating research ideas on IR and related topics. It is an opportunity for Italian academic researchers (especially young ones) and researchers affiliated with Italian companies for networking and discussion about ideas and results. It is an informal occasion for people working on very related areas to meet and socialize.

This 8th edition is hosted by the Università della Svizzera italiana (USI) in Lugano. It is the first time that IIR is hosted by a foreign university, even if with strong links with Italy. This edition is also the first to hosts one track completely devoted to Recommender Systems, together with the first meeting of RecSys Italian chapter.
I hope you will enjoy the workshop and the (Italian) Swiss hospitality.

Fabio Crestani
General Chair of IIR 2017

Organizing Committee

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Fabio Crestani, USI, Lugano, Switzerland
Tommaso Di Noia, Politecnico di Bari, Italy
Raffaele Perego, ISTI-CNR, Pisa, Italy

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Anastasia Giachanou, USI, Lugano, Switzerland
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Ida Mele, USI, Lugano, Switzerland
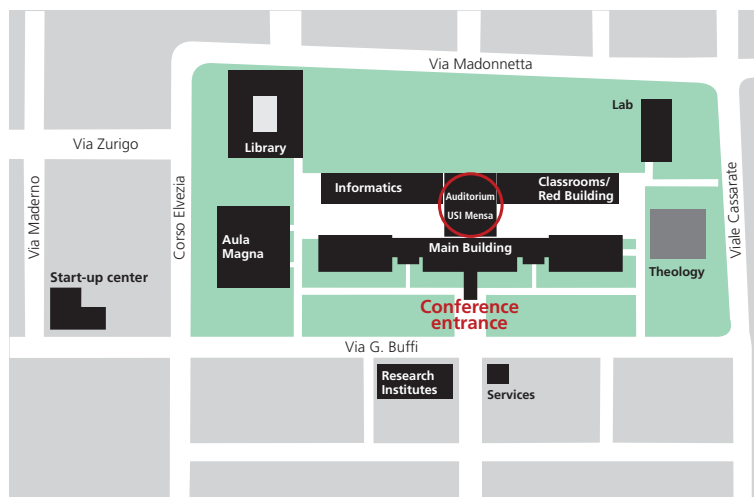
Site of the Workshop

The 8th Italian Information Retrieval Workshop is hosted by the Università della Svizzera italiana (USI) in Lugano, Switzerland.

USI Campus is located in the heart of Lugano, precisely in via Giuseppe Buffi 13. It hosts the Faculties of Communication Sciences, Economics, Biomedical Sciences and Informatics, as well as the University central administrative offices and the library.

Keynote and paper talks will be held in the Auditorium of the University which is on the third floor of the Main Building (see the map below).

Map of the Campus

General Information about Lugano

Lugano is the largest city of Ticino, the Italian-speaking canton of Switzerland. The city is situated on the Lugano Lake between Monte San Salvatore and Monte Brè. This part of Switzerland is also known as the "Rio of the Old World" for the wooded, sugar-loaf hills which rise from the water and surround Lugano.

Lugano is an international city, full of energy and style. It is the Switzerland's third most important financial center and offers both a high-quality life and a stunning picturesque landscape. Given the proximity to Italy, Lugano is deeply influenced by Italian culture and food

The city center and the lake, with the beautiful Ciani Park on the shore, are within walking distance of the Campus.

For more touristic information, please visit the websites:
www.luganoturismo.ch/en
www.myswitzerland.com/ench/lugano.html

Workshop Information

Registration
Registration badge and other material can be collected onsite at the registration desk which will open at 10:00 of Monday, June 5th.
Please register during the morning to avoid long queue shortly before the workshop opening.

Workshop Opening
The IIR Opening will be held in the Auditorium on Monday, June 5th at 13:40.

Reception
On Tuesday, June 6th at 18:20 a reception will be held in the foyer of the Auditorium.

Internet & Wi-Fi facility
Throughout the campus it is possible to connect to the internet via the wireless network. Please connect to the Wi-Fi using:

Username: USI-INF-CONF
Password: Lugano2017

Dining

University Cafeteria
The cafeteria is in the main building and is open from Monday to Friday from 7:45 till 17:30.

From 12:00 to 14:00 lunch is served.
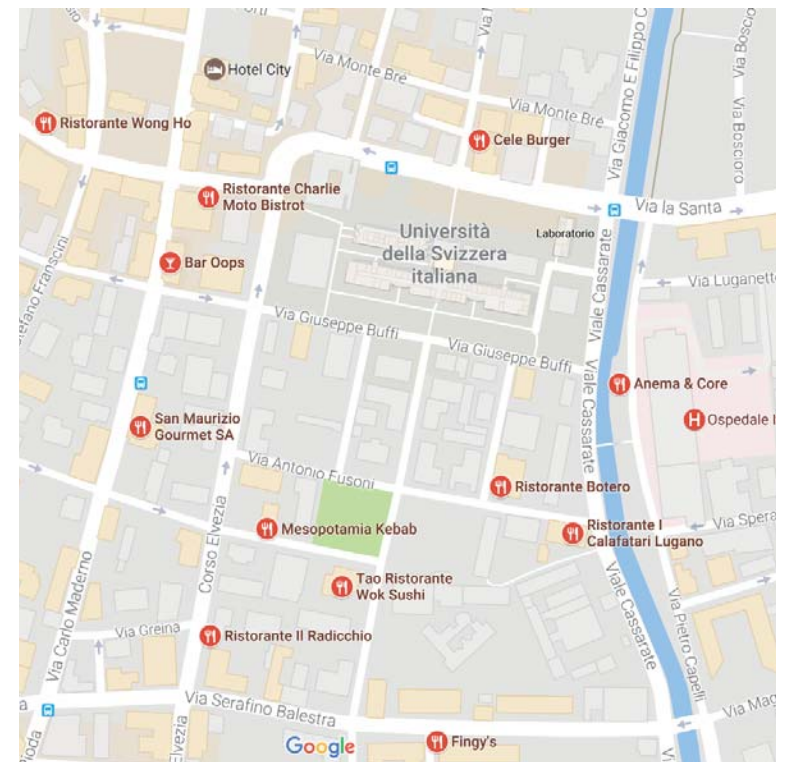
There are 3 choices of meals:
• Menu of the day (typically meat or fish)
• Pasta
• Vegetarian

IMPORTANT: Lunch is included in your registration.

Note that the 5th of June is public holiday in Ticino, so the cafeteria is closed!

Restaurants
Around the campus, there are several dining options, see picture for suggestions.

Monday, June 5th, 2017

13.40-14:00	**Opening Remarks** Fabio Crestani, Università della Svizzera italiana, Lugano, Switzerland

SESSION 1: Evaluation
Chair: Stefano Mizzaro, University of Udine, Italy

14:00-14:20	**Using information retrieval to evaluate trustworthiness assessment of eshops** Claudio Carpineto, Davide Lo Re and Giovanni Romano
14:20-14:40	**Component-Based Evaluation using GLMM** Nicola Ferro and Gianmaria Silvello
14:40-15:00	**Predicting the Topics to Review in Preparation of Your Next Meeting** Seyed Ali Bahrainian and Fabio Crestani
15:00-15:20	**An Approach to the Design and Evaluation of an Enterprise Search Application** Daniele Turato, Daniel Zilio and Maristella Agosti
15:20-15:40	**Empathic inclination from digital footprints** Marco Polignano, Pierpaolo Basile, Gaetano Rossiello, Marco De Gemmis and Giovanni Semeraro
15:40-16:20	**Coffee Break**

SESSION 2: Classification and Visual Approaches
Chair: Roberto Basili, University of Rome, Tor Vergata, Italy

16:20-16:40	**A framework for visual search in broadcast archives** Federico Maria Pandolfi, Davide Desirello, Luca Martini and Rosario Di Stabile
16:40-17:00	**WorldFoodMap: Social Media Image Recognition for Food Trend Analysis** Giuseppe Amato, Paolo Bolettieri, Vinicius Monteiro de Lira, Cristina Ioana Muntean, Raffaele Perego and Chiara Renso
17:00-17:20	**A Game of Lines: Developing Game Mechanics for Text Classification** Giorgio Maria Di Nunzio, Maria Maistro and Daniel Zilio
17:20-17:40	**Economic Evaluation of Recommender Systems: A Proposal** Kevin Roitero, Stefano Mizzaro and Giuseppe Serra
17:40-18:00	**Temporal Semantic Analysis and Visualization of Words** Zaikun Xu and Fabio Crestani
18:00-18:20	**Using the Distributional Hypothesis to Oversample Documents** Alejandro Moreo Fernández, Andrea Esuli and Fabrizio Sebastiani

Tuesday, June 6th, 2017

09:00-10:00	**Keynote Talk - Text Categorization with Style** Chair: Fabio Crestani, Università della Svizzera italiana, Lugano, Switzerland Speaker: Jacques Savoy, University of Neuchâtel, Switzerland
10:00-10:40	**Coffee Break**

SESSION 3: Learning to Rank and Query Processing
Chair: Gabriella Pasi, University of Milan, Italy

10:40-11:00	**Similarity of Linked Data Entities by Features Ranking** Chiara Renso, Livia Ruback, Marco Antonio Casanova and Claudio Lucchese
11:00-11:20	**A Tool for Evaluation and Analysis of Learning-to-Rank Solutions** Claudio Lucchese, Cristina Ioana Muntean, Franco Maria Nardini, Raffaele Perego and Salvatore Trani
11:20-11:40	**X-Dart: Dropouts meet Pruning for Efficient Learning To Rank** Claudio Lucchese, Franco Maria Nardini, Salvatore Orlando, Raffaele Perego and Salvatore Trani
11:40-12:00	**Extending Learning to Rank with User Dynamic** Maria Maistro, Nicola Ferro, Claudio Lucchese and Raffaele Perego
12:00-12:20	**Recent Advances in Energy Efficient Query Processing** Matteo Catena and Nicola Tonellotto
12:20-12:40	**Assigning Document Identifiers to Boost the Effectiveness of Early Terminated Queries** Matteo Catena, Fabrizio Silvestri and Nicola Tonellotto
12:40-14:00	**Lunch**
14:00-15:00	**Keynote Talk - Feature-Rich Networks: Models and Applications** Chair: Raffaele Perego, ISTI-CNR, Pisa, Italy Speaker: Paolo Boldi, University of Milan, Italy

SESSION 4: Recommendation Systems (1)
Chair: Francesco Ricci, Free University of Bozen-Bolzano, Italy

15:00-15:20	**Letting Users Assist What to Watch: An Interactive Query-by-Example Movie Recommendation System** Yashar Deldjoo, Cristina Frà, Massimo Valla and Paolo Cremonesi
15:20-15:40	**Schema-aware feature selection in Linked Data-based recommender systems** Corrado Magarelli, Azzurra Ragone, Paolo Tomeo, Tommaso Di Noia, Matteo Palmonari, Andrea Maurino and Eugenio Di Sciascio
15:40-16:20	**Coffee Break**

SESSION 5: Miscellaneous
Chair: Nicola Tonellotto, ISTI-CNR, Pisa, Italy

16:20-16:40	**Nystrom Methods for Efficient Kernel-Based Methods for Community Question Answering** Danilo Croce, Simone Filice and Roberto Basili
16:40-17:00	**Information Evolution Modeling and Tracking: State-of-Art, Challenges and Opportunities** Ekaterina Shabunina and Gabriella Pasi
17:00-17:20	**Efficient Data Structures for Massive N-Gram Datasets** Giulio Ermanno Pibiri and Rossano Venturini
17:20-17:40	**A Collaborative Multi-Agent Approach to Web Information Foraging** Yassine Drias and Gabriella Pasi
17:40-18:00	**Un'analisi del mondo del lavoro e un modello predittivo per potenziali nuove occupazioni** Gabriella Pasi, Mirko Cesarini, Stefania Marrara, Fabio Mercorio, Marco Viviani, Mario Mezzanzanica and Marco Pappagallo
18:00-18:20	**The Need of Structured Data: Introducing the OKgraph Project** Maurizio Atzori
18:20	**Reception**

Wednesday, June 7ᵗʰ, 2017

09:00-10:00	**Keynote Talk - Recommender Systems: Research Challenges** Chair: Tommaso Di Noia, Politecnico di Bari, Italy Speaker: Francesco Ricci, Free University of Bozen-Bolzano, Italy
10:00-10:40	**Coffee Break**
	SESSION 6: Recommendation Systems (2) Chair: Paolo Cremonesi, Politecnico di Milano, Italy
10:40-11:00	**Exploiting multiple action types in recommender systems** Tural Gurbanov and Francesco Ricci
11:00-11:20	**Preference Elicitation for Group Recommender Systems** Thuy Ngoc Nguyen and Francesco Ricci
11:20-11:40	**Estimate features relevance for groups of users** Stefano Cereda, Leonardo Cella and Paolo Cremonesi
11:40-12:00	**Tour Recommendations for Groups** Aris Anagnostopoulos, Reem Atassi, Luca Becchetti, Adriano Fazzone and Fabrizio Silvestri
12:00-12:20	**Reproducing and Prototyping Recommender Systems in R** Ludovik Çoba, Panagiotis Symeonidis and Markus Zanker
12:20-12:40	**On the role of time and sessions in diversifying recommendation results** Vito Walter Anelli, Vito Bellini, Tommaso Di Noia, Wanda La Bruna, Paolo Tomeo and Eugenio Di Sciascio
12:40-13:00	**Disjunctive Boolean Kernels based Collaborative Filtering for top-N item recommendation** Mirko Polato and Fabio Aiolli
13:00	**Closing**

Schedule

	Monday	Tuesday	Wednesday
9:00		**Keynote Talk** (Savoy)	**Keynote Talk** (Ricci)
9:20			
9:40			
10:00	**Registration**	**Coffee Break**	**Coffee Break**
10:20			
10:40		**Session 3** LTR & QP	**Session 6** Rec Sys (2)
11:00			
11:20			
11:40			
12:00			
12:20			
12:40		**Lunch**	
13:00			**Closing**
13:20			
13:40	**Opening**		
14:00	**Session 1** EVAL	**Keynote Talk** (Boldi)	
14:20			
14:40			
15:00		**Session 4** Rec Sys (1)	
15:20			
15:40	**Coffee Break**	**Coffee Break**	
16:00			
16:20	**Session 2** CVA	**Session 5** Misc.	
16:40			
17:00			
17:20			
17:40			
18:00			
18:20		**Reception**	