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## Sunday at a Glance

### Activities

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</tr>
</thead>
<tbody>
<tr>
<td>09:00–12:30</td>
<td>Tutorial: Differential Privacy for Information Retrieval</td>
</tr>
<tr>
<td>09:00–12:30</td>
<td>Tutorial: Efficiency/Effectiveness Trade-offs in Learning to Rank</td>
</tr>
<tr>
<td>14:00–18:00</td>
<td>Tutorial: Bandit Algorithms in Interactive Information Retrieval</td>
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<tr>
<td>09:00–18:00</td>
<td>Workshop: Search-Oriented Conversational AI (SCAI)</td>
</tr>
<tr>
<td>14:00–18:00</td>
<td>Workshop: Learning Next Generation Rankers (LEARNER 2017)</td>
</tr>
</tbody>
</table>

### Lunch & Coffee

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:30–11:00</td>
<td>Coffee break</td>
</tr>
<tr>
<td>12:30–14:00</td>
<td>Lunch</td>
</tr>
<tr>
<td>15:30–16:00</td>
<td>Coffee break</td>
</tr>
<tr>
<td>18:00</td>
<td>Drinks at CASA</td>
</tr>
</tbody>
</table>
# Conference at a Glance

## Monday, October 2

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td>Welcome Message</td>
</tr>
<tr>
<td>09:10</td>
<td>Keynote: <strong>Information Retrieval Meets Game Theory</strong>, Oren Kurland</td>
</tr>
<tr>
<td>10:10</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:40</td>
<td>Session: <strong>Entities and knowledge bases</strong></td>
</tr>
<tr>
<td>12:00</td>
<td>Lunch (at the venue)</td>
</tr>
<tr>
<td>13:00</td>
<td>Session: <strong>Query and document representations</strong></td>
</tr>
<tr>
<td>14:20</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>14:50</td>
<td>Session: <strong>Evaluation</strong></td>
</tr>
<tr>
<td>16:10</td>
<td>Panel session</td>
</tr>
<tr>
<td>18:30</td>
<td>Welcome Reception at Booking.com</td>
</tr>
</tbody>
</table>

## Tuesday, October 3

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td>Keynote: <strong>The Evolution of Computational Advertising</strong>, Suju Rajan</td>
</tr>
<tr>
<td>10:00</td>
<td>Coffee Break &amp; Posters</td>
</tr>
<tr>
<td>10:30</td>
<td>Session: <strong>Retrieval models</strong></td>
</tr>
<tr>
<td>11:50</td>
<td>Lunch (at the venue)</td>
</tr>
<tr>
<td>13:00</td>
<td>Session: <strong>Social medial</strong></td>
</tr>
<tr>
<td>14:20</td>
<td>Coffee Break &amp; Posters</td>
</tr>
<tr>
<td>14:50</td>
<td>Poster Booster</td>
</tr>
<tr>
<td>15:20</td>
<td>Poster Session</td>
</tr>
<tr>
<td>17:00</td>
<td>Award Announcement</td>
</tr>
<tr>
<td>19:00</td>
<td>Banquet Dinner at De Kas</td>
</tr>
</tbody>
</table>
**Wednesday, October 4**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td>Keynote: <strong>Learning in networks: How to exploit relationships to improve predictions</strong>, Jennifer Neville</td>
</tr>
<tr>
<td>10:00</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:30</td>
<td>Session: <strong>Interactive and session search</strong></td>
</tr>
<tr>
<td>11:50</td>
<td>Lunch (at the venue)</td>
</tr>
<tr>
<td>13:00</td>
<td>Business Meeting</td>
</tr>
<tr>
<td>14:00</td>
<td>Session: <strong>User modelling</strong></td>
</tr>
<tr>
<td>15:00</td>
<td>Conference Close</td>
</tr>
</tbody>
</table>
Chairs’ Welcome

Welcome to ICTIR 2017, the 7th International Conference on the Theory of Information Retrieval and the 3rd conference with that name to be fully sponsored by the ACM Special Interest Group on Information Retrieval (SIGIR). This year’s conference continues its tradition of being the premier forum for presentation of research on theoretical aspects of Information Retrieval (IR) including (a) conceptual papers that explore key concepts, (b) theoretical papers that model concepts and/or relations between concepts, and (c) papers that study theory in experimental or industrial settings. To highlight the increasingly strong connections between Information Retrieval and neighboring disciplines this year’s conference explicitly welcomed papers in IR areas that overlap with Human Information Access, Machine Learning, Natural Language Processing and Perception.

We are also happy to welcome you to Amsterdam, The Netherlands. The Netherlands has a number of strong and vibrant IR groups, e.g. at the University of Amsterdam, Twente University, Radboud University Nijmegen, Centrum Wiskunde en Informatica, Delft University of Technology, and University of Leiden and counts about 150 IR researchers, the largest number per capita in worldwide. These groups are successfully engaged in both theoretical and practical work. They are young groups consisting of enthusiastic people, with a track record in high quality publications.

The call for papers attracted submissions from all over the world. The program committee reviewed 97 contributions – 54 long and papers 43 short papers – and accepted 27 long papers and 25 short papers, all of which will be presented during the conference. We received three excellent tutorial proposals and two workshop proposals, and we hope those will aid in laying down foundational ideas in information retrieval research. We thank everyone who helped us organize the conference: short paper chairs Katja Hofmann and Christina Lioma, workshop chair Grace Hui Yang, tutorial chair Josiane Mothe, core IR track program chairs Peter Bruza and Lynda Tamine-Lechani, IR & Human Information Access track chair Diane Kelly, IR & Machine Learning track chairs Qiaozhu Mei and Alessandro Sordoni, IR & Natural Language Processing track chair Alessandro Moschetti, IR & Perception track chairs Maria Eskevich and Stefan Rueger, and the members of the program committee who worked hard to review papers and provide feedback for authors. We also thank our sponsors and supporters: ACM SIGIR, Bloomberg, Booking.com, Facebook,
Gemeente Amsterdam, Google, Microsoft, NWO, SIKS, University of Amsterdam, Werkgemeenschap Informatiewetenschap. Finally, we thank the authors for providing superb technical content, the workshop organizers, the tutorial lecturers and our keynote speakers Oren Kurland, Jennifer Neville and Suju Rajan.

We hope that you will find the conference program interesting and thought-provoking and that the conference will provide you with a valuable opportunity to share ideas with other researchers and practitioners from institutions around the world.

Enjoy the conference!

Jaap Kamps, Evangelos Kanoulas & Maarten de Rijke
ICTIR’17 General Chairs
University of Amsterdam

Hui Fang & Emine Yilmaz
ICTIR’17 Program Chairs
University of Delaware &
University College London
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IR & Machine Learning Track Chair
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  Alessandro Sordoni, University of Michigan, USA

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Yiqun Liu, Tsinghua University, China
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Ilya Markov, University of Amsterdam, Netherlands
Massimo Melucci, University of Padua, Italy
Bhaskar Mitra, Microsoft, United Kingdom
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Boughanem Mohand, IRIT University Paul Sabatier Toulouse, France
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Jayanta Mukherjee, IIT Kharagpur, India
Jian-Yun Nie, Université de Montréal, Canada
Javier Parapar, University of A Coruña, Spain
Benjamin Piwowarski, CNRS / University Pierre et Marie Curie, France
Simone Paolo Ponzetto, University of Mannheim, Germany
Tao Qin, Microsoft Research, China
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Maria Maistro
Ida Mele
Matthew Mitsui
Mohammad Alinan Nejadi
Thibaut Thonet
Nikos Voskarides
Instructions for Participants

Talks

Full paper presentations are 20 minutes long. Short papers will be presented during the poster booster session (1 minute). We strongly encourage authors of short papers to use the time as an introduction to your work rather than a technical deep-dive. You can cover technical details in interactive discussion at the poster sessions.

Posters

We have one poster session on Tuesday: 14:50 – 17:00. Please be present at your poster during the poster session. Your poster will be displayed on corridor windows of the conference venue; hence there are no restrictions regarding the size of your poster, although we would recommend an A3 portrait.

Poster setup and takedown

Posters can stay at the conference windows during the entire conference. Time for poster setup is Tuesday morning. Poster takedown happens after the last session of the conference (but you are also welcome to remove it by the end of the poster session).
Information Retrieval (IR) research has extensively utilized personalization to advance its state-of-the-art. In this process, many IR algorithms and applications require the use of users’ personal information, contextual information and other sensitive and private information. However, while IR researchers are making progress, there is always a concern of how not to violate the users’ privacy. Sometimes, the concern becomes so overwhelming that the IR research has to be stopped to avoid leaking of users’ privacy. The good news is that recently increasing attentions have been paid on the joint field of privacy and IR – privacy-preserving IR. As part of the effort, this tutorial offers an introduction to differential privacy (DP), one of the most advanced techniques in privacy research, and provides necessary set of theoretical knowledge for applying privacy techniques in IR. Differential privacy is a technique that provides strong privacy guarantees for data protection. Theoretically, it aims to maximize the data utility in statistical datasets while minimizing the risk of exposing individual data entries to any adversary. Differential privacy has been applied across of a wide range of applications in database, data mining, and IR. This tutorial aims to lay a theoretical foundation of DP and how it can be applied to IR.
Bandit Algorithms in Interactive Information Retrieval

Dorota Glowacka (Department of Computer Science University of Helsinki)

14:00–18:00

The multi-armed bandit problem models an agent that simultaneously attempts to acquire new knowledge (exploration) and optimize his decisions based on existing knowledge (exploitation). The agent attempts to balance these competing tasks in order to maximize his total value over the period of time considered. There are many practical applications of the bandit model, such as clinical trials, adaptive routing or portfolio design. Over the last decade there has been an increased interest in the development of new bandit algorithms for specific problems in information, such as diverse document ranking, news recommendation or ranker evaluation. The aim of this tutorial is to provide an overview of the various applications of bandit algorithms in information retrieval as well as issues related to their practical deployment and performance in real-life systems/applications.
Efficiency/Effectiveness Trade-offs in Learning to Rank

Claudio Lucchese (ISTI-CNR),
Franco Maria Nardini (ISTI-CNR)
9:00–12:30

Tutorial on the efficiency/effectiveness tradeoffs in Learning to Rank. In the last years, learning to rank (LtR) had a significant influence on several tasks in the Information Retrieval field, with large research efforts coming both from the academia and the industry. Indeed, efficiency requirements must be fulfilled in order to make an effective research product deployable within an industrial environment. The evaluation of a model can be too expensive due to its size, the features used and several other factors. This tutorial discusses the recent solutions that allow to build an effective ranking model that satisfies temporal budget constrains at evaluation time. For more information please visit the tutorial website, http://learningtorank.isti.cnr.it/.
Learning Next Generation Rankers (LEARNER 2017)

Nicola Ferro (Dept. of Information Engineering, University of Padua, Italy),
Claudio Lucchese (ISTI-CNR, Pisa, Italy),
Maria Maistro (Dept. of Information Engineering, University of Padua, Italy),
Raffaele Perego (ISTI-CNR, Pisa, Italy)

14:00–18:00

The aim of LEARNER@ICTIR2017 is to investigate new solutions for LtR. In details, we identify some research areas related to LtR which are of actual interest and which have not been fully explored yet. We solicit the submission of position papers on novel LtR algorithms, on evaluation of LtR algorithms, on dataset creation and curation, and on domain specific applications of LtR. LEARNER@ICTIR2017 will be a gathering of academic people interested in IR, ML and related application areas. We believe that the proposed workshop is relevant to ICTIR since we look for novel contributions to LtR which focus on foundational and conceptual aspects, which need to be properly framed and modelled.
The aim of SCAI@ICTIR2017 is to bring together IR and AI communities to instigate future direction of search-oriented conversational systems. We identified the number of research areas related to conversational AI which is of actual interest to both communities and which have not been fully explored yet. We think it’s beneficial to exchange our visions. We solicit the paper submissions and more importantly proposals for panel discussions where researchers can exchange opinions and experiences. We believe that the proposed workshop is relevant to ICTIR since we look for novel contributions to search-oriented conversational systems which are a new and promising area.
Abstract
In competitive search settings such as the Web, authors of documents may have an incentive to have their documents highly ranked for certain queries. This can drive corpus dynamics as documents may be manipulated in response to induced rankings (e.g., by applying search engine optimization). Such post-ranking corpus effects are not directly modelled in ad hoc retrieval models and, more generally, are not accounted for by the formal foundations of retrieval paradigms. In this talk I will discuss how (algorithmic) game theory can be used to analyze some aspects of the competitive search setting. I will first discuss the probability ranking principle (PRP) which is the theoretical underpinning of most ad hoc retrieval methods. As it turns out, the PRP is sub-optimal in competitive settings. In addition, I will discuss some initial theoretical and empirical results regarding the strategic behavior of document authors in competitive retrieval settings, specifically with respect to the foundations of classical ad hoc retrieval models. I will then discuss future directions.

Bio
Oren Kurland is an Associate Professor at the Technion – Israel Institute of Technology. He holds a Ph.D. in Computer Science from Cornell University. Oren’s main research focus is information retrieval. He serves on the editorial board of the Information Retrieval Journal, and has also served on the editorial boards of the Journal of Artificial Intelligence Research and Information Processing and Management Journal. Oren served as the first chair of the ACM SIGIR ICTIR steering committee. He has also served as program committee co-chair of the ICTIR and SPIRE conferences. Oren was awarded best-paper
honorable mention awards in the SIGIR 2013 and ECIR 2016 conferences. He has received faculty research awards from IBM, Google and Yahoo.
Monday Sessions

Entities and knowledge bases
Chair: Shane Culpepper

Talks (10:40–12:00)

10:40 Structural Regularities in Text-based Entity Vector Spaces
   Christophe Van Gysel, Maarten de Rijke and Evangelos Kanoulas

11:00 Knowledge Questions from Knowledge Graphs
   Dominic Seyler, Mohamed Yahya and Klaus Berberich

11:20 A Deep Neural Information Retrieval Model Enhanced by a Knowledge Resource Driven Representation of Documents
   Dominic Seyler, Mohamed Yahya and Klaus Berberich

11:40 On Type-Aware Entity Retrieval
   Dario Garigliotti and Krisztian Balog

12:00 End of session
Monday Sessions

Query and document representations
Chair: Djoerd Hiemstra

Talks (13:00–14:20)

13:00  Enhanced Mean Retrieval Score Estimation for Query Performance Prediction
       Haggai Roitman, Shai Erera, Oren Sar Shalom and Bar Weiner

13:20  Can Short Queries Be Even Shorter?
       Peilin Yang and Hui Fang

13:40  Deriving Differentially Private Session Logs for Query Suggestion
       Sicong Zhang and Grace Hui Yang

14:00  Graph-based semi-supervised learning for text classification
       Natalie Widmann and Suzan Verberne

14:20  End of session
Monday Sessions

Evaluation
Chair: Fabio Crestani

Talks (14:50–18:10)

14:50    Are IR evaluation measures on an interval scale?
         *Marco Ferrante, Nicola Ferro and Silvia Pontarollo*

15:10    Considering Assessor Agreement in IR Evaluation
         *Eddy Maddalena, Kevin Roitero, Gianluca Demartini and Stefano Mizzaro*

15:30    Dealing with Incomplete Judgments in Cascade Measures
         *Kai Hui, Klaus Berberich and Ida Mele*

15:50    Evaluation Measures for Relevance and Credibility in Ranked Lists
         *Christina Lioma, Jakob Grue Simonsen and Birger Larsen Fabio Crestani*

16:10    End of session
Panel Discussion
Chair: Arjen de Vries

The end of IR as we know it? (16:10–17:10)

Arjen de Vries  
Radboud Universiteit

Jimmy Lin  
University of Waterloo

Grace Hui Yang  
Georgetown University

Norbert Fuhr  
University of Duisburg-Essen

Fiana Raiber  
Yahoo Research

Leif Azzopardi  
University of Strathclyde
The Evolution of Computational Advertising

Suju Rajan
Criteo Research (France)

09:00–10:00

Chair: Lynda Tamine-Lechani (Paul Sabatier University)

Abstract
Machine learning literature on computational advertising typically tends to focus on the simplistic CTR prediction problem which while being relevant is the tip of the iceberg in terms of the research challenges in the field. There have been several recent efforts, shaped by the realities of a complex ad ecosystem, to develop models that try to better encapsulate the journey of an ad from its impression to possibly leading to a purchase. In this talk, we will highlight the recent research challenges in the field of computational advertising & how it is evolving to incorporate ideas from areas such as reinforcement learning, econometrics, deep learning & large-scale recommender systems.

Bio
Suju Rajan is the VP, Head of Research at Criteo. At Criteo, her team works on all aspects of performance driven computational advertising, including, real-time bidding, large-scale recommendation systems, auction theory, reinforcement learning, online experimentation, metrics and scalable optimization methods. Prior to Criteo, she was the Director of the Personalization Sciences at Yahoo Research where her team worked on personalized recommendations for several Yahoo products. She received her PhD from the University of Texas at Austin.
Tuesday Sessions

Retrieval models
Chair: Norbert Fuhr

Talks (10:30–11:50)

10:30 Improved Query Topic Models Using Pseudo-Relevant Polya Document Models
Ronan Cummins

10:50 On the Additivity and Weak Baselines for Search Result Diversification Research
Mehmet Akcay, Ismail Sengor Altingovde, Craig Macdonald and Iadh Ounis

11:10 Kullback-Leibler Divergence Revisited
Fiana Raiber and Oren Kurland

11:30 Text Retrieval based on Least Information Measurement
Weimao Ke

11:50 End of session
Tuesday Sessions

Social medial
Chair: Ismail Sengor Altingovde

Talks (14:00–14:30)

13:00 Mining Temporal Statistics of Query Terms for Searching Social Media Posts
       Jinfeng Rao, Ferhan Ture, Xing Niu and Jimmy Lin

13:20 Modeling Controversy within Populations
       Myungha Jang, Shiri Dori-Hacohen and James Allan

13:40 Recommendation with Social Relationships via Deep Learning
       Dimitrios Rafailidis and Fabio Crestani

14:00 Characterizing and Predicting Supply-side Engagement on Crowd-contributed Video Sharing Platforms
       Rishabh Mehrotra and Prasanta Bhattacharya

14:20 End of session
Tuesday Poster Booster

Poster Boosters
Chair: Krisztian Balog

Talks (14:50–15:20)

- Term-Mouse-Fixations as an Additional Indicator for Topical User Interests in Domain-Specific Search by Daniel Hienert and Dagmar Kern
- On Search Powered Navigation by Mostafa Dehghani, Glorianna Jagfeld, Hosein Azarbonyad, Alex Olieman, Jaap Kamps and Maarten Marx
- Mobile Vertical Ranking based on Preference Graphs by Yuta Kadotami, Yasuaki Yoshida, Sumio Fujita and Tetsuya Sakai
- Personalised Search Time Prediction using Markov Chains by Tuan Vu Tran, David Maxwell, Norbert Fuhr and Leif Azzopardi
- An Exploration of Serverless Architectures for Information Retrieval by Matt Crane and Jimmy Lin
- Robust Standard Deviation Estimation for Query Performance Prediction by Haggai Roitman, Shai Erera and Bar Weiner
- The Pareto Frontier of Utility Models as a Framework for Evaluating Push Notification Systems by Gaurav Baruah and Jimmy Lin
- Advanced Hidden Markov Models for Recognizing Search Phases by Sebastian Dungs and Norbert Fuhr
- Uncovering Like-minded Political Communities on Twitter by OphÂl’lie Fraisier, Guillaume Cabanac, Yoann Pitarch, Romarin BesanÂgon and Mohand Boughanem
- Quantization in Append-Only Collections by Salman Mohammed, Matt Crane and Jimmy Lin
- Upper Bound Approximations for BlockMaxWand by Nicola Tonellotto and Craig Macdonald
- Merge-Tie-Judge: Low-Cost Preference Judgments with Ties by Kai Hui and Klaus Berberich
Tuesday Poster Booster

- Evaluating and Analyzing Click Simulations in Web Search by Stepan Malkevich, Ilya Markov, Maarten de Rijke and Elena Mikhailova
- An Initial Investigation of Query Expansion Bias by Colin Wilkie and Leif Azzopardi
- Towards Learning Reward Functions from User Interactions by Ziming Li, Julia Kiseleva, Maarten de Rijke and Artem Grotov
- Benchmark for Complex Answer Retrieval by Federico Nanni, Bhaskar Mitra, Matt Magnusson and Laura Dietz
- Detecting Seasonal Queries Using Time Series and Content Features by Behrooz Mansouri, Mohammad Sadegh Zahedi, Maseud Rahgozar and Ricardo Campos
- A Contextual Bandit Approach to Dynamic Search by Angela Yang and Grace Hui Yang
- Modeling Information Flow in Dynamic Information Retrieval by Felipe Moraes, Mário Alvim and Rodrygo Santos
- On the Effectiveness of Bayesian Network-based Models for Document Ranking by Xing Tan, Fanghong Jian and Jimmy Huang
- On Fine-Grained Geo-Localisation of Tweets by Jorge David Gonzalez Paule, Yashar Moshfeghi, Joemon M. Jose and Piyushimita Thakuria
- The Treatment of Ties in AP Correlation by Julian Urbano and Măşnica Marrero
- Enhanced Probabilistic Classify and Count Methods for Multi-Label Text Quantification by Roy Levin and Haggai Roitman
- Retrieving Compositional Documents Using Position-Sensitive Word Mover’s Distance by Martin Trapp, Marcin Skowron and Dietmar Schabus
- Emotion Detection from Text via Ensemble Classification Using Word Embeddings by Jonathan Herzig, Michal Shmueli-Scheuer and David Konopnicki
Learning in networks: How to exploit relationships to improve predictions

Jennifer Neville
Purdue University
09:00–10:00

Chair: Julia Kiseleva (University of Amsterdam)

Abstract
The popularity of social networks and social media has increased the amount of information available about users’ behavior online – including current activities, and interactions with followers, friends, and family. This rich relational information can be used to improve predictions even when individual data is sparse, since the characteristics of friends are often correlated. Although this type of network data offer several opportunities to improve predictions about users, the characteristics of online social network data also present a number of challenges to accurately incorporate the network information into machine learning systems. This talk will outline some of the algorithmic and statistical challenges that arise due to partially-observed, large-scale networks, and describe methods for semi-supervised learning, latent-variable modeling, and active sampling to address the challenges.

This talk will describe some of the tasks and sub-areas of NLP that have experienced fundamental advances in the state of the art over past few years, focusing on what these advances mean for understanding and extracting information from online text.

Bio
Jennifer Neville is the Miller Family Chair Associate Professor of Computer Science and Statistics at Purdue University. She received her PhD from the University of Massachusetts Amherst in 2006. She is currently an elected member of the AAAI Executive Council and she was recently PC chair of the 9th ACM International Conference on Web Search and Data. In 2012, she was awarded an NSF Career Award,
in 2008 she was chosen by IEEE as one of “AI’s 10 to watch”, and in 2007 was selected as a member of the DARPA Computer Science Study Group. Her work, which includes more than 100 peer-reviewed publications with over 5000 citations, focuses on developing data mining and machine learning techniques for complex relational and network domains, including social, information, and physical networks.
Wednesday Sessions

Interactive and session search
Chair: Haggai Roitman

 Talks (10:30–11:50)

10:30  Towards the Next Generation of Personal Assistants: Systems that Know When You Forget
       Seyed Ali Bahrainian and Fabio Crestani

10:50  On Effective Dynamic Search in Specialized Domains
       Felipe Moraes, Rodrygo Santos and Nivio Ziviani

11:10  Investigating Per Topic Upper Bound for Session Search Evaluation
       Zhiwen Tang and Grace Hui Yang

       Yinan Zhang, Xueqing Liu and Chengxiang Zhai

11:50  End of session
Wednesday Sessions

User modelling
Chair: Nicola Ferro

Talks (14:00–15:00)

14:00   A User Re-Modeling Approach to Item Recommendation using Complex Usage Data
        Oren Sar Shalom, Haggai Roitman, Yishay Mansour and Amihoo Amir

14:20   The Positive and Negative Influence of Search Results on People’s Decisions about the Efficacy of Medical Treatments
        Frances Pogacar, Amira Ghenai, Mark Smucker and Charles Clarke

14:40   Personalized Navigation and Random Walk on the Complex Heterogeneous Graph
        Xiaozhong Liu, Yingying Yu, Zhuoren Jiang, Chun Guo and Scott Jensen

15:00   End of session
Venue Information

ICTIR 2017 will be held at Hotel Casa, in Amsterdam, Netherlands. The Hotel Casa is located on the south of Amsterdam near Amstel. The registration desk will be open the whole day during the conference. Drinks will be offered on Sunday at the Wine Bar. Reception will be held on Monday at Booking.com. Entry only with ICTIR badge at the Herengracht 597 entrance (the one with the reception desk). Conference Banquet will be at De Kas restaurant on Tuesday evening.

Local Information

Q&A about Amsterdam

Should I tip & how much? In the Netherlands, prices include taxes and service, but leaving a small tip (5-10% of the total bill including taxes) is very common.

Why is my credit card not accepted? The Netherlands uses its own debit card system (called PIN). Many restaurants and larger shops do accept VISA and MasterCard, but check beforehand.

What should I buy my family? Stroopwafels (if you love them), drop (if you don’t), cheese (Old Amsterdam is nice) or tulips. Get any of the first three from a supermarket like Albert Heijn. For tulips, there is a flower market near the Muntplein (very close to the conference venue). In a pinch on your way to the airport, check out the IAmsterdam Store in the back of Amsterdam Central Station.

Getting Around

Tram, bus, metro plan your trip with Google maps; buy one-hour tickets for 2.90 Euro at stations and in trams (but not in buses)

Taxi www.tcataxi.nl/en (+31 20 7 777 777) or use Uber

City portal for visitors www.iamsterdam.com
ICTIR 2018
The Fourth ACM SIGIR International Conference on the Theory of Information Retrieval

September 24-28, Tianjin, China
http://ictir2018.org

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IMPORTANT DATES (Tentative)

- Long paper submission deadline: April 2018
- Short paper submission deadline: April 2018
- Tutorial submission deadline: April 2018
- Workshop submission deadline: April 2018
- Notifications of acceptance: May/June 2018

ORGANISERS

- General Co-chairs:
  Dawei Song (The Open University, UK & Tianjin University, China)
  Tie-Yan Liu (Microsoft Research Asia, China)
  Le Sun (Chinese Information Processing Society of China)

- Programme Committee Co-chairs (Long papers):
  Peter Bruza (Queensland University of Technology)
  Massimo Melucci (University of Padua, Italy)

- Programme Committee Co-chairs (Short papers):
  Fabrizio Sebastiani (Institute for Science and Technologies of Information, Italy)
  Grace Hui Yang (Georgetown University, USA)

Venue:
Tianjin Yingbin Hotel
Sponsors and support