



Avignon, 10 - 13 September 2018

# Technical Program





**MONDAY, SEPTEMBER 10, 2018**

<b>08:00 – 08:30</b>	<i>Registration</i>
<b>08:30 – 09:00</b>	<b>Welcome &amp; Opening</b> Rooms 2E05 and 2E06
<b>09:00 - 10:30</b>	<b>2018 Lab Overviews (2E05-06)</b> <i>Chair: Laure Soulier</i>
<b>10:30 – 11:00</b>	<i>Coffee break</i>
<b>11:00 – 12:30</b>	<b>Conference papers and Boosters (2E05)</b> <i>Chair: Evangelos Kanoulas</i>
	<ul style="list-style-type: none"> <li>• 45 - Fast and Simple Deterministic Seeding of KMeans for Text Document Clustering (Long)</li> <li>• 22 - Multi-View Personality Profiling Based on Longitudinal Data (Long)</li> <li>• 55 - Analyzing and Visualizing Translation Patterns of Wikidata Properties (Short)</li> <li>• 32 - A Comparative Study of Polarity Lexicons for Supervised Sentiment Analysis (Booster)</li> <li>• 39 - ParaLex: A Multilingual Resource for Evaluating Semantic Similarity Models (Booster)</li> <li>• 24 - WikiQA+ar: On Building Datasets for Open-Domain Cross-Language Question Answering (Booster)</li> <li>• 47 - A free open source patent corpus generator (Booster)</li> <li>• 53 - Optimal model selection for paraphrase detection task (Booster)</li> <li>• 57 - Book Recommendation based on query expansion techniques (Booster)</li> <li>• 65 - Hierarchical Clustering Analysis: The best-performing approach at PAN 2017 author clustering task (Booster)</li> </ul>
<b>12:30 – 13:30</b>	<i>Welcome Lunch (Cloister)</i>
<b>13:30 – 14:30</b>	<i>Poster Session (Cloister)</i>
<b>Labs eHealth (2E06), PAN (2E05), PIR (2E12)</b>	
<b>14:30 – 16:00</b>	<b>Labs eHealth (1) - Lab overview broken down as:</b>

	<ul style="list-style-type: none"> <li>• 14:30 - 14:40 Welcome and Introduction</li> <li>• 14:40 - 15:30 Keynote (40minutes + 10 minutes questions)</li> <li>• 15:30 - 16:00 Task 1, Task 2, Task 3 Overview (10 minutes each)</li> </ul>
<b>14:30 – 16:00</b>	<b>PAN @ CLEF 2018</b>  <i>Profiling Depression and Anorexia in Social Media</i>  <a href="#">David Losada</a> University of Santiago de Compostela (Spain)
<b>14:30 – 16:00</b>	<b>PIR</b> <ul style="list-style-type: none"> <li>• 14:30 Introduction to the PIR-CLEF Lab by Gareth Jones and Gabriella Pasi,</li> <li>• 15:00 ECNU at CLEF PIR 2018 : Evaluation of Personalized Information Retrieval</li> <li>• 15:30 PIR Based in Explicit and Implicit Feedback1</li> </ul>
<b>16:00 – 16:30</b>	<i>Coffee break</i>
<b>Labs (2E06), PAN (2E05), PIR (2E12)</b>	
<b>16:30 – 18:00</b>	<b>Labs eHealth (2) - Task 1 IE Session</b>
<b>16:30 – 18:00</b>	<b>PAN</b>  Demystifying Psychometric Marketing: Multi-View Learning as a New Social Media User Profiling Standard  <a href="#">Aleksandr Farseev</a> SoMin.ai
<b>16:30 – 18:00</b>	<b>PIR : panel on specific research questions</b>

**19:00 – 20:00** Day city Tour

**22:00 – 23:00** Night City Tour

**TUESDAY, SEPTEMBER 11, 2018**

<b>8:30 – 10:30</b>	<p style="text-align: center;"><b>Conference Papers (2E05)</b></p> <p style="text-align: center;">Chair: Léa Laporte</p> <ul style="list-style-type: none"> <li>• 15 - Effects of language and terminology of query suggestions on the precision of health searches (Long)</li> <li>• 50 - Deep Multimodal Classification of Image Types in Biomedical Journal Figures (Long)</li> <li>• 48 - Medical Image Classification with Weighted Latent Semantic Tensors and Deep Convolutional Neural Networks (Long)</li> <li>• 30 - Automatic query selection for acquisition and discovery of food-drug interactions (Short)</li> <li>• 43 - Is it a lay or medico-scientific concept? Proposals for an automatic classification (Booster)</li> <li>• 62 - Attention-based Medical Caption Generation with Image Modality Classification and Clinical Concept Mapping (Booster)</li> <li>• 25 - A Compound Model for Consumer Health Search (Booster)</li> </ul>
<b>10:30 – 11:00</b>	<i>Coffee Break</i>
<b>11:00 – 12:00</b>	<p><b>Keynote Gabriella Pasi (2E05-06),</b>  <i>Department of Informatics, Systems, and Communication (DISCo) University of Milano-Bicocca, Italia</i></p> <p><b><i>Evaluation of (personalized) Search Engines and Recommender Systems: two sides of the same coin ?</i></b></p> <p><i>Chair: Jacques Savoy</i></p> <p><b>Abstract:</b>  <i>Since the appearance in 1992 of the article by Nick Belkin and Bruce Croft “IR and IF: two sides of the same coin”, IF has evolved into a rich and coherent research area, giving rise to one of today’s most widespread technologies, i.e. Recommender Systems. On the IR side, the development of methods for Personalized Search has exploited the key role of users and user-systems interactions in the search process, thus making closer, at some extent, the IR and the (content-based) IF tasks. While some techniques originally defined in one of the two fields have affected each other, little effort has been spent to investigate the purpose, measures and techniques used to evaluate the effectiveness of the two categories of systems. The aim of this talk is to present a comparative analysis of the tasks of evaluating (personalized) Information Retrieval Systems () and Recommender Systems (), by outlining their similarities and differences. An overview of the evaluation’s "dimensions" and related measures defined and adopted in the two contexts will be presented, with the aim of possibly offering new perspectives to the evaluations of both (personalized) and RSs.</i></p>
<b>12:00 – 13:30</b>	<i>Lunch (CROUS)</i>
<b>13:30 – 14:30</b>	<i>Poster session (In front of 2E05)</i>
<b>Labs eHealth (2E05), PAN (2E06), MC2 (2E12)</b>	

<b>14:30 – 16:00</b>	<b>Labs e-Health (3) - Task 2 TAR Session</b>
<b>14:30 – 16:00</b>	<b>PAN</b>  <b>Competent Men and Warm Women: On the Detection and Origin of Gender Stereotyped Image Search Results</b> <a href="#">Jahna Otterbacher</a> Open University of Cyprus & Research Centre on Interactive Media, Smart Systems & Emerging Technologies Nicosia (Cyprus)
<b>14:30 – 16:00</b>	<b>MC2</b>  <i>Invited speaker: Fionn Murtagh</i> <ul style="list-style-type: none"> <li>• ERTIM@MC2: Diversified Argumentative Tweets Retrieval</li> <li>• LIA@CLEF 2018: Mining Events Opinion Argumentation from Raw Unlabeled Twitter Data using Convolutional Neural Network</li> <li>• Monolingual and Cross-lingual Information Retrieval in Cultural Microblog at CLEF 2018</li> </ul>
<b>16:00 – 16:30</b>	<i>Coffee Break</i>
<b>Labs eHealth (2E12), ImageClef (2E05), PAN (2E06)</b>	
<b>16:30 – 18:00</b>	<b>Labs e-Health (4) - Task 3 IR Session</b>
<b>16:30 – 18:00</b>	<b>PAN</b>
<b>16:30 – 18:00</b>	<b>ImageCLEF Task Overview Talks (4 x 20 minutes)</b> <ul style="list-style-type: none"> <li>• <i>Overview of the ImageCLEF 2018 Medical Domain Visual Question Answering Task</i> by Henning Müller, HES-SO Valais, Switzerland</li> <li>• <i>Overview of the ImageCLEF 2018 Caption Prediction Tasks</i> by Alba García Seco de Herrera, University of Essex, United Kingdom</li> <li>• <i>Overview of ImageCLEF 2018 Detecting Multi-drug Resistance, Classifying Tuberculosis Type, and Assessing Severity Score</i> by Yashin Dicente, HES-SO Valais, Switzerland</li> <li>• <i>Overview of ImageCLEF 2018 Daily Living Understanding and Lifelog Moment Retrieval</i> by Cathal Gurrin, Dublin City University, Ireland</li> </ul>

**19:00 Social Program**

## WEDNESDAY, SEPTEMBER 12, 2018

8:30 - 10:30

*Conference Papers (2E05)*

**Chair: Chiraz Trabelsi**

- 29 - Learning-to-Rank and Relevance Feedback for Literature Appraisal in Empirical Medicine (Long)
- 36 - Using R Markdown for Replicable Experiments in Medicine (Long)
- 54 - Rethinking the Evaluation Methodology of Authorship Verification Methods (Long)
- 19 - Combining Tags and Reviews to Improve Social Book Search Performance (Long)
- 66 - Addressing Social Bias in Information Retrieval (Short)
- 60 - Character N-grams for Detecting Deceptive Controversial Opinions (Short)

10:30 – 11:00

*Coffee Break*

11:00 – 12:00

**Keynote Nicholas J Belkin (2E05-6),**

School of Communication & Information, Rutgers University, NJ, USA

### **Evaluation of Personalization of Information Interaction in an Era of Information Ubiquity**

Chair: Teresa Gonçalves

Abstract:

This paper is derived from a presentation by me and Rob Capra entitled “IR System Users: New Research Directions”, at SWIRL 3, Lorne, Victoria, Australia, February 2018. A report on SWIRL 3 is in in the SIGIR Forum, v. 52, no. 1 (June 2018).

In the emerging technological and social-technical environment, people will be constantly and ubiquitously emerged in of information. The field of information retrieval (IR), and especially that concerned with personalization of interactive IR (IIR), needs to construe them as such, and, especially, not merely, only, or even as “users” who will stop doing what they’re doing, to engage in an IR system. In this paper, I identify some characteristics of this rapidly developing environment that are especially salient for how we should conceive of support of people in their interactions with and the issues that arise from this context with respect to the concept of personalization of such support. The resulting understanding of personalization of interaction with information has strong implications for just how the effectiveness and usefulness of such support should and could be evaluated, some of which are proposed, with the aim of initiating discussion in the research community of the problems attendant to them.

12:00 – 13:30	Lunch
13:30 – 14:30	Break out session
<b>Labs eRisk (2E06), ImageClef (2E05), Center (2E12)</b>	
14:30 – 16:00	<p><b>eRisk</b></p> <ul style="list-style-type: none"> <li>• Word Embeddings and Linguistic Metadata at the CLEF 2018 Tasks for Early Detection of Depression and Anorexia</li> <li>• IRIT at e-Risk 2018</li> <li>• Temporal Mood Variation: at the CLEF eRisk-2018 Tasks for Early Risk Detection on The Internet</li> <li>• PEIMEX at eRisk2018: Emphasizing Personal Information for Depression and Anorexia Detection</li> <li>• Analysis and Experiments on Early Detection of Depression</li> </ul>
<b>ImageCLEF VQA-Med &amp; tuberculosis</b>	
14:30 – 16:00	<ul style="list-style-type: none"> <li>• <i>An Effective Information Fusion and Deep Transfer Learning Framework for Medical Visual Question Answering</i> by Feifan Liu, University of Massachusetts Medical School, USA</li> <li>• <i>How Do We Answer Questions based on Medical Images?</i> by Yangyang Zhou, Tokushima University, Japan</li> <li>• <i>ImageCLEF 2018: Lesion-based TB-descriptor for CT Image Analysis</i> by Vitali Liauchuk, UIIP NASB, Belarus</li> <li>• <i>Texture Analysis from 3D Model and Individual Slice Extraction for Tuberculosis MDR Detection, Type Classification and Severity Scoring</i> by Md Sajib Ahmed, University of Évora, Portugal</li> </ul>
14:30 – 16:00	<p><b>Center</b>  <a href="http://www.centre-eval.org/clef2018/index.html">http://www.centre-eval.org/clef2018/index.html</a></p>
16:00 – 16:30	Coffee Break
<b>Labs eRisk (2E06), ImageClef (2E05)</b>	
<b>eRisk</b>	
16:30 – 18:00	<ul style="list-style-type: none"> <li>• UPF's Participation at the CLEF eRisk 2018: Early Risk Prediction on the Internet</li> <li>• Using Topic Extraction on Social Media Content for the Early Detection of Depression.</li> <li>• TUA1 at eRisk 2018</li> <li>• Early Detection of Signs of Anorexia and Depression Over Social Media using Effective Machine Learning Frameworks</li> <li>• A Neural Network Approach to Early Risk Detection of Depression and Anorexia on Social Media</li> </ul>



### **ImageCLEF Flifelog & feedback session**

**16:30 – 18:00**

- *Organizer Team at ImageCLEFflifelog 2018: Baseline Approaches for Lifelog Retrieval and Summarization* by Cathal Gurrin, Dublin City University, Ireland
- *Retrieving Events in Life Logging* by Kavallieratou Ergina, University of the Aegean, Greece
- *NTU NLP-Lab at ImageCLEFflifelog 2018: Visual Concept Selection with Textual Knowledge for Understanding Activities of Daily Living and Life Moment Retrieval* by Tsun-Hsien Tang, National Taiwan University, Taiwan
- **ImageCLEF feedback session. Everybody is invited to join !!!**  
Moderator: Henning Müller, HES-SO Valais, Switzerland

**19:00 Social Program**

**THURSDAY, SEPTEMBER 13, 2018**

<b>08:30 – 10:30</b>	<p><b>Best of the labs 2017 (2E05)</b></p> <p><i>Chair: Jaap Kamps</i></p> <ul style="list-style-type: none"> <li>• 18 - <i>Plant Classification based on Gated Recurrent Unit (Short)</i></li> <li>• 21 - <i>Early Detection of Depression Based on Linguistic Metadata Augmented Classifiers Revisited (Short)</i></li> <li>• 64 - <i>Simply the Best: Minimalist System Trumps Complex Models in Author Profiling (Short)</i></li> <li>• 58 - <i>Deep Learning for ICD Coding: Looking for Medical Concepts in Clinical Documents in English and French (Short)</i></li> <li>• 63 - <i>Microblog Contextualization: Advantages and Limitations of a Multi-Sentence Compression Approach (Short)</i></li> <li>• 56 - <i>Textured Graph-based Model of the Lungs: Application on Tuberculosis Type Classification and Multi-Drug Resistance Detection (Short)</i></li> </ul>
<b>10:30 – 11:00</b>	<i>Coffee break</i>
<b>11:00 – 12:00</b>	<p><b>Keynote Julio Gonzalo (2E05-06),</b></p> <p>Natural Language Processing and Information Retrieval Group UNED, Spain</p> <p><b>Bias in System Evaluation</b></p> <p><i>Chair: Fabio Crestani</i></p> <p>Abstract:</p> <p>"Bias" is a trending topic in the context of Artificial Intelligence and Data Science, and for a good reason: more and more decision making processes in our lives (such as getting a loan or being interviewed by a job) are mediated by Machine Learning systems; and both the research community and the society at large are increasingly aware that Machine Learning happens to be as prone to bias as human cognition. Most research on system bias currently on biases introduced by the algorithms and/or the data used by the algorithms to learn. But state-of-the-art systems are usually the result of a "natural selection" process where iterative evaluation, both inside and outside the lab, plays a key role. Consequently, biases in our evaluation methodologies may have a substantial impact on systems. In the talk I will discuss the many sources of bias in current evaluation practices, how they may impact research in the fields of Information Retrieval, Natural Language Processing and Recommender Systems, and what are the challenges to eliminate them.</p>
<b>12:00 – 13:30</b>	<i>Lunch (CROUS)</i>
<b>eRisk (2E12), LifeClef (2E05)</b>	
<b>13:30 – 15:00</b>	<p><b>eRisk</b></p> <p><a href="http://early.irlab.org/">http://early.irlab.org/</a></p> <ul style="list-style-type: none"> <li>• UNSL's participation at eRisk 2018 Lab.</li> </ul>

	<ul style="list-style-type: none"> <li>• Discussion, Future Directions &amp; 2019 Tasks</li> </ul>
<b>13:30 – 15:00</b>	<b>LifeClef</b>
<b>15:00 – 15:30</b>	<i>Coffee Break</i>
<b>CheckThat (2E12), LifeClef (2E05)</b>	
<b>15:30-17:00</b>	<b>CheckThat!</b> <ul style="list-style-type: none"> <li>• <b>3:30</b> Introduction to the lab</li> <li>• <b>3:50</b> <i>A Hybrid Recognition System for Check-worthy Claims Using Heuristics and Supervised Learning</i> (task 1)</li> <li>• <b>4:05</b> <i>The Copenhagen Team Participation in the Check-Worthiness Task of the Competition of Automatic Identification and Verification of Claims in Political Debates of the CLEF-2018 Fact Checking Lab</i> (task 1)</li> <li>• <b>4:20</b> <i>UPV-INAOE - Check That: Preliminary Approach for Checking Worthiness of Claims</i> (task 1)</li> <li>• <b>4:35</b> <i>The Copenhagen Team Participation in the Factuality Task of the Competition of Automatic Identification and Verification of Claims in Political Debates of the CLEF-2018 Fact Checking Lab</i> (task 2)</li> <li>• <b>4:50</b> <i>UPV-INAOE - Check That: An Approach based on External Sources to Detect Claims Credibility</i> (task 2)</li> </ul>
<b>15:30-17:00</b>	<b>LifeClef</b>
<b>17:00-18:00</b>	<b>Labs 2019 kickoff and Closing Forum</b>

19:00 Science and Music Festival