31st ACM Conference on User Modeling, Adaptation and Personalization

26 – 29 June, 2023
LIMASSOL, CYPRUS

ACM UMAP – User Modeling, Adaptation and Personalization – is the premier international conference for researchers and practitioners working on systems that adapt to individual users, to groups of users, and that collect, represent, and model user information. ACM UMAP is the successor to the biennial User Modeling (UM) and Adaptive Hypermedia and Adaptive Web-based Systems (AH) conferences that were merged in 2009. It is sponsored by ACM SIGCHI and SIGWEB, and organized with User Modeling Inc. as the Steering Committee. The proceedings are published by ACM and will be part of the ACM Digital Library.

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Zhu Sun	Macquarie University, Australia

UMAP 2023

● ***Elad Yom-Tov*** (Microsoft Research & Technion – Israel Institute of Technology)

Title: Modeling users in their health journey as evident in internet data

Abstract: Search engines are the first internet platform that people turn to when they have a medical question. The queries people make during their inquiries can help characterize their search path in sickness and in health and to serve as an intervention point to nudge them to better health outcomes.

In my talk I will present studies where characterization of the search path serves as a means for screening search engine users for different medical conditions. I will further show how such characterization is also beneficial in understanding users' medical decision-making process.

I will then demonstrate how simple interventions using online advertisements placed along the search pathway can steer people to better health choices in areas ranging from encouraging vaccination to selecting appropriate treatment choices for serious illnesses. Such interventions, which can utilize both implicit and explicit user models, can be rapidly and economically applied to the benefit of large populations.

Bio: Dr. Elad Yom-Tov is a Senior Principal Researcher at Microsoft Research and an Associate Research Fellow at the Technion. Before joining Microsoft he was with Yahoo Research, IBM Research, and Rafael. Dr. Yom-Tov studied at Tel-Aviv University and the Technion. His primary research interests are in applying large-scale Machine Learning and Information Retrieval methods to medicine. He has published four books, over 180 papers (of which 3 were awarded prizes), and was awarded more than 30 patents. His latest book is "Crowdsourced Health: How What You Do on the Internet Will Improve Medicine" (MIT Press, 2016).

Jahna Otterbacher (Open University of Cyprus)

Title: Algorithmic Analysis of People Images:
Reflections on Fairness, Human Likeness, and Social Norms for Image Recognition

Abstract: Cognitive services, such as those mimicking human vision and language capabilities, have proven to be a boon to developers looking to enhance user experience, through adaptive and personalized interfaces. They have had a democratizing effect, allowing those who are not machine learning experts, and/or who have limited computing resources, to access state-of-the-art AI. This talk examines the social behaviors of vision-based services, or how they treat the people depicted in images. In a series of studies, our team has audited the behaviors of popular image analysis services for potential gender and racial biases.

I will present our techniques for discrimination discovery in this domain, as well as our work on understanding users' perceptions of fairness using crowdsourcing approaches. I will summarize our observations, taking into consideration the larger socio-technical picture of how these opaque services are used, as well as some future directions for developing methodologies to audit such tools, which are simultaneously expected to be "humanlike" but fair.

Bio: Jahna Otterbacher received her doctorate in Information from the University of Michigan (Ann Arbor, USA). She is currently Associate Professor and Vice Dean of the School of Pure and Applied Sciences at the Open University of Cyprus (OUC). At OUC, she leads the Cyprus Center for Algorithmic Transparency (CyCAT), which conducts interdisciplinary research focused on promoting technical and educational solutions for promoting algorithmic transparency and literacy. Concurrent to this, Jahna co-leads the Fairness and Ethics in AI-Human Interaction (fAIre) group at CYENS, a new center of excellence and innovation in Nicosia, Cyprus, in collaboration with two international Advanced Partners, UCL and MPI. Her research has been funded by the EU's Horizon 2020 Research and Innovation Program (under Grant Agreements No. 739578 (RISE) & No. 810105 (CyCAT)), as well as the Cyprus Research and Innovation Foundation (under grants EXCELLENCE/0918/0086 (DESCANT) and EXCELLENCE/0421/0360 (KeepA(I)n)).
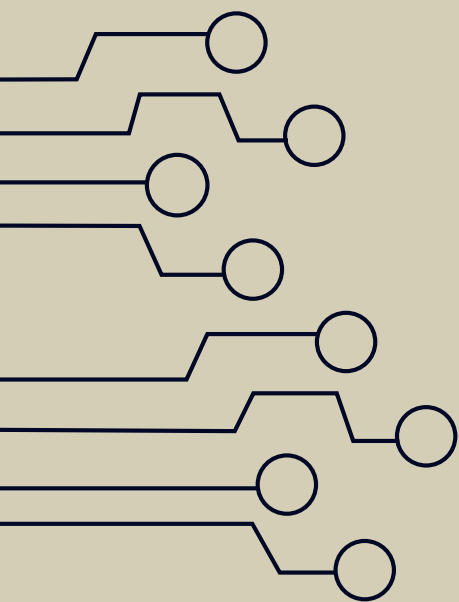
Hannes Werthner

Title: Are we doing the right thing ? A digital humanism perspective

Abstract: In this talk, I will start with an overview of "Digital Humanism", an approach to develop digital technologies centered on human and societal needs, building on and furthering social achievements. Arguably, much of digital innovation has earned a dubious reputation for being unethical and promoting socially undesirable power relations.

Examples include the monopolization of the Web (see also the ongoing AI race between the big five), the formation of filter bubbles, the loss of privacy, or the spread of digital surveillance. "Our" technologies are disrupting societies and questioning our understanding of what it means to be human.However, this development is not God-given; alternative paths are possible, for people and society. In the second part I will therefore discuss some related challenges, what this means for our discipline, from research to teaching.

Bio: Hannes Werthner is a retired Computer Science Professor at the Faculty of Informatics, TU Wien. Prior to joining TU Wien, he had professorships at Austrian and international Universities. His research is in several fields such as Decision Support Systems, E-Commerce and E-Tourism, Recommender Systems. Besides research and teaching he started initiatives such as the Vienna PhD School of Informatics and the i2c / Informatics Innovation Center. In the area of E-Tourism, the International Federation for IT and Tourism (IFITT) grants the "Hannes Werthner Tourism and Technology Lifetime Achievement Award" to outstanding personalities in the field. He is a key person of the Digital Humanism Initiative – see also his latest contribution: "Perspectives on Digital Humanism" (https://link.springer.com/book/10.1007/978-3-030-86144-5)

Conference Program Overview

Time	26th June	27th June	28th June	29th June
	Workshops & Tutorial Day	**Main Conference**		
09.00 - 10.30	Session 1	Welcome & Keynote 1 - Elad Yomtov	Keynote 2 - Jahna Otterbacher	Keynote 3 - Hannes Werthner
10.30 - 11.00	**Coffee Break**			
11.00 - 12.30	Session 2	Papers	Papers	Papers
12.30 - 14.00	**Lunch**			
14.00 - 15.30	Session 3	Papers	DC	Papers
15.30 - 16.00	**Coffee Break**			
16:00 - 17:30	Session 4	LBR/Demo & DC Madness Session	Papers	Townhall & Closing & UMAP 2024 announcement
		Welcome receptions & LBR/Demos	Conference dinner & Awards	

26th June 2023

	Room "Atrium A"	Room "Atrium B"	Room "Atrium C"
09.00 - 10.30 **Session 1**	HAAPIE	PATCH	GMAP
10.30 - 11.00	**Coffee Break**		
11.00 - 12.30 **Session 2**	HAAPIE	PATCH	GMAP
12.30 - 14.00	**Lunch**		
14.00-15.30 **Session 3**	HAAPIE	PATCH	
15.30 - 16.00	**Coffee Break**		
16.00 - 17.30 **Session 4**	HAAPIE	PATCH	

	Room "Megaron A"	Room "Megaron B"	Room "Megaron C"
	FairUMAP +ExUM	ADAPPT	Tutorial on User Profiling with Graph Neural Networks and Related Beyond-Accuracy Perspectives
Coffee Break			
	FairUMAP +ExUM	ADAPPT	Tutorial on User Profiling with Graph Neural Networks and Related Beyond-Accuracy Perspectives
Lunch			
	Tutorial: Accountable Knowledge-aware Recommender Systems	Tutorial: User Models as Digital Twins: Using Webassembly Techniques to ensure Privacy, Transparency and Control in Personalization	CRUM
Coffee Break			
	Tutorial: Accountable Knowledge-aware Recommender Systems	Tutorial: User Models as Digital Twins: Using Webassembly Techniques to ensure Privacy, Transparency and Control in Personalization	CRUM

27th June 2023

09.00 – 10.30	**Welcome + Keynote 1 - Elad Yomtov** **Chair: Tsvi Kuflik**
10.30 - 11.00	**Coffee Break**
11.00 - 12.30	**Session 1 – Personalization for Persuasive and Behavior Change** **Chair: Federica Cena**
	1786 Personalizing Time Loss Aversion to Reduce Social Media Use. Ziwei Gao **4830 Investigating the effectiveness of persuasive justification messages in fair music recommender systems for users with different personality traits.** Somayeh Fatahi, Seyedeh Mina Mousavifar and Julita Vassileva **5238 Toward Changing Users behavior with Emotion-based Adaptive Systems. Mina Alipour, Mahyar Tourchi Moghaddam, Karthik Vaidhyanathan and Mikkel Baun** Kjærgaard **6274 Towards a Personalized Online Fake News Taxonomy.** Luis Filipe Altoe and H. Sofia Pinto
12:30 – 14:00	**Lunch**

14.00 - 15.30	**Session 2: Recommender Systems** **Chair: Marko Tkalčič**
	7464 Combining Graph Neural Networks and Sentence Encoders for Knowledge-aware Recommendations. Giuseppe Spillo, Cataldo Musto, Marco Polignano, Pasquale Lops, Marco de Gemmis and Giovanni Semeraro **6572 Together Yet Apart: Multimodal Representation Learning for Personalised Visual Art Recommendation.** Bereket Abera Yilma and Luis Leiva **9977 Promoting Tail Item Recommendations in E-Commerce.** Tamar Didi, Ido Guy, Amit Livne, Arnon Dagan, Lior Rokach and Bracha Shapira **168 Evaluating Pre-training Strategies for Collaborative Filtering.** Júlio B. G. Costa, Leandro B. Marinho, Rodrygo L. T. Santos and Denis Parra
15.30 - 16.00	**Coffee Break**
16.00 - 17.30	**LBR/Demo & DC Madness Session**
19:00	**Welcome Reception (Posters & LBR & Demos)**

28th June 2023

09.30 – 10.30	**Keynote 2 - Jahna Otterbacher** **Chair: Styliani Kleanthous**
10.30 - 11.00	**Coffee Break**
11.00 - 12.30	**Session 3: Putting the Human at the Center** **Chair: Hanna Hauptmann**
	2353 Human Expectations and Perceptions of Learning in Machine Teaching. Swati Mishra and Jeff Rzeszotarski **2788 Composing Groups in Collaborative Learning by Pair Personality Differences.** Akihiro Kobayashi, Yuichi Ishikawa, Kazushi Ikeda, Daisuke Kamisaka and Roberto Legaspi **9799 Leveraging Causal Inference to Measure the Impact of a Mental Health App on Users' Well-being.** Aleix Ruiz de Villa, João Guerreiro, Federico Lucchesi, Giovanni Maffei, Bartlomiej Skorulski, Gabriele Sottocornola and Ludovik Coba **433 Improving Proactive Dialog Agents Using Socially-Aware Reinforcement Learning.** Matthias Kraus, Nicolas Wagner, Ron Riekenbrauck and Wolfgang Minker
12:30 – 14:00	**Lunch**
14:00 - 15.30	**Doctoral Consortium** Room: Panorama
	Round Table **Fairness and Sustainability in Multistakeholder Tourism Recommender Systems** Asmi Banerjee **How To Model Users Through Their Abilities: A Methodological Perspective On Ability-Based Design** Amelie Nolte **Scalable and Explainable Linear Shallow Autoencoders for Collaborative Filtering from Industrial Perspective** Vojtech Vancura

Adaptive Context-Aware Planning Support for Students with Autism

Robin Cromjongh

Combining Heterogeneous Embeddings for Knowledge-Aware Recommendation Models

Guiseppe Spillo

Sustainability-oriented Recommender Systems

Pavel Merinov

Overcoming Customisation Challenges in Information Dashboards

Hatim Alsayahani

The Influence of Media Bias on News Recommender Systems
Qui Ruan

15.30 - 16.00	**Coffee Break**
16.00 - 17.30	**Session 4: The Classroom Context** **Chair: Olga Santos**

383 A Comparative Analysis of Automatic Speech Recognition Errors in Small Group Classroom Discourse.

Jie Cao, Ananya Ganesh, Jon Cai, Rosy Southwell, Margaret Perkoff, Michael Regan, Katharina Kann, James Martin, Martha Palmer and Sidney D'Mello

2266 Curb your procrastination: A study of academic procrastination behaviors vs. a planning and time management app.

Siqian Zhao, Shaghayegh Sahebi and Reza Feyzi Behnagh

9606 How Close are Predictive Models to Teachers in Detecting Learners at Risk?

Roberta Galici, Tanja Käser, Gianni Fenu and Mirko Marras

3348 A Bandit You Can Trust.

Ethan Prihar, Adam Sales and Neil Heffernan

17:45-23:00	**Conference Tour & Dinner + Awards (Best Paper, Best Student Paper, Best Reviewers)**

29th June 2023

09.30 – 10.30	**Keynote 3 - Hannes Werthner** **Chair: Julia Neidhardt**
10.30 - 11.00	**Coffee Break**
11.00 - 12.30	**Session 5: Explainability and Decision Making** **Chair: Peter Brusilovsky**
	5304 Human-centered Information Visualization Adaptation Engine. Panayiotis Andreou, Christos Amyrotos, Panagiotis Germanakos and Irene Polycarpou **6249 Service-based Presentation of Multimodal Information for the Justification of Recommender Systems Results.** Zhongli Filippo Hu, Noemi Mauro, Giovanna Petrone and Liliana Ardissono **716 User Needs for Explanations of Recommendations: In-depth Analyses of the Role of Item Domain and Personal Characteristics.** Thi Ngoc Trang Tran, Alexander Felfernig, Viet Man Le, Thi Minh Ngoc Chau and Thu Giang Mai **4118 Explainable and Accurate: Interactive Personalization of Classifiers for Explainability using Multi-Objective Bayesian Optimization.** Suyog Chandramouli, Yifan Zhu and Antti Oulasvirta **4925 A Missing Piece in the Puzzle: Considering the Role of Task Complexity in Human-AI Decision Making.** Sara Salimzadeh, Gaole He and Ujwal Gadiraju
12:30 – 14:00	**Lunch**

14.00 - 15.30	**Session 6: RecSys Applications** **Chair: Cataldo Musto**
	5045 Amplifying Artists' Voices: Item Provider Perspectives on Influence and Fairness of Music Streaming Platforms. Karlijn Dinnissen and Christine Bauer **9605 Combining Reinforcement Learning and Spatial Proximity Exploration for New User and New POI Recommendations.** David Massimo and Francesco Ricci **1816 Modelling the Training Practices of Recreational Marathon Runners to Make Personalised Training Recommendations.** Ciara Feely, Brian Caulfield, Aonghus Lawlor and Barry Smyth **4189 Diffusion-based temporal-aware efficient recommendation on CQA platforms.** Vaibhav Krishna and Nino Antulov-Fantulin
15.30 - 16.00	**Coffee Break**
16.00	**Townhall + Closing + UMAP 2024 announcement**

- **Organiser:**

University of Cyprus

- **Sponsors:**

- **Coordinator:**

SOCIAL EVENTS

● Welcome Cocktail

Date: **27 June, 2023**
Time: **19:00 – 20:30**
Where: **St. Raphael, Panorama Room & Deck**

Welcome Cocktail is the first social gathering between all conference delegates and it will take place at the Venue Hotel. It will be a relaxing evening during which delegates will have the opportunity to talk to colleagues and peers, while enjoying local drinks and ample canapés.

The Welcome Cocktail is included in all Registration Types.

Ticket per accompanying person : **€40**

● Tour & Conference Dinner

Date: **28 June, 2023**
Departure Time: **17:45**
Departure From: **The Venue Hote**

We will get together at the lobby of the Venue Hotel, from where we will promptly depart in air-conditioned coaches for a city tour. A professional guide will tell us about the history of Cyprus and Limassol Town in particular. Dinner will take place at a traditional tavern serving excellent dishes of Cypriot cuisine complimented with local drinks and desserts.

The Conference Dinner is included in all Regular (Non Student) Registration fees.

Ticket For Students & Accompanying Persons: **€70**

ABOUT LIMASSOL

Limassol

Limassol, a city counting centuries of history, is located between two of the most renowned ancient kingdoms of the island, Amathous at the east and Kourion at the west. "Lemessos" as it is called by locals, is the second largest urban area in Cyprus (after the capital, Nicosia) and its municipality is the most populous in the country with 235,000 inhabitants (2011 Census).

Limassol is one of the fastest growing modern metropolises in Europe. The city's infrastructure is constantly upgraded from all aspects (way of living, public construction projects, education, etc) with the most distinct project of this sort being the Limassol Marina – an exclusive waterfront development combining elegant residences and a full service marina,

with its own shopping and dining area. Also, the revamped coastline now covers a 15 kilometres distance, lined with hotels and beach bars and cafes, interspersed with eucalyptus groves and linked by a promenade popular with walkers and joggers.

In recent years Limassol has progressed as one of the largest commercial ports in the Mediterranean region and it is now considered as one of the most important centres of tourism, trade and offshore companies. The city is also the business and financial centre of Cyprus as hundreds of international shipping and financial companies have their headquarters here.

● The St. Raphael Resort – 5 *

St. Raphael Resort is located on one of the most renowned beaches in Limassol, only a short coastal drive from the lively centre of town, approximately 10 minutes away. The Larnaca International Airport is 35 minutes away, and Paphos International Airport is 55 minutes away. There are shops, restaurants and bars within walking distance and a bus stop exactly outside the hotel.

This carefully chosen, tranquil location with the calm sea at your doorstep and the town only a few moments away; has convenient access to the island's motorway. Any other coastal town, mountain village or tourist attraction is hardly more than an hour's drive away.

Accommodation

Of the 272 rooms and suites, 216 have been completely renovated and the new addition of the 56 Executive Rooms has ensured that every type of guest can find the facilities to suit him/her. All rooms are equipped with 26 inch flat-screen television with satellite, pay movies on demand and play station games, complimentary coffee and tea making facilities, direct-dial telephones, radio, safes and mini-bars.

The en-suite marble bathrooms are fitted with every amenity, while the carefully designed building allows 90% of the rooms breathtaking views over the Mediterranean Sea which one can enjoy from his/her private balcony.

General Facilities

Apart from swimming in either one of the two outdoor or one indoor pools, the hotel also has a table tennis, , two tennis courts, beach volleyball and badminton courts, workout programs, darts, French bowls, Archery, a fully equipped gymnasium with the latest equipment, sauna, steam bath, Jacuzzi, scuba diving and all types of water sports. The St. Raphael Spa also offers all types of spa treatments using Thalgo products and is open seven days a week.

The St. Raphael Resort – 5 *

Food & Beverages

Sailor's Rest Lounge Bar Restaurant: Serves an array of gourmet cuisine with fresh fish, meats and pasta.

Seashells Beach Tavern: Serves a variety of fast food, grills, salads and desserts next to the beach. Lunch only.

The Palladium: Offers international themed buffet dinners with live musical entertainment.

Octagon Restaurant: Serves American buffet breakfast, and international buffet, carvery, and salad bar for lunch.

The Phoenician Restaurant: Serves a fusion of Mediterranean and Arabic cuisine meze.

The Captain's Bar: Offers the perfect retreat while enjoying cocktail favorites.

Splash Restaurant: The perfect outdoor restaurant, offers fast food and a salad bar. Open for lunch and early dinner.

The wet and dry Amphibion Pool Bar: A symbol of St. Raphael Resort, all guests can swim up to the bar and order from a wide variety of drinks.

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Our services extend from digital support, media promotion, conference website development and management, to the management of all conference related activities, complete interaction with suppliers and participants, online/onsite registration with secretariat, technical equipment and 24/7 phone help line. We are adaptable and extremely flexible as we are aware of the unique requirements and budget restrictions of each conference. Our services may be provided on an all-inclusive or on an a-la-carte basis.

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