



March 10-14, 2024
Sheffield, United Kingdom

CHIIR'24

Programme Booklet of the 2024 Conference on
Human Information Interaction and
Retrieval

Sponsored by:

ACM SIGIR

In Cooperation with:

ACM SIGCHI

General Chairs:

Paul Clough¹, Morgan Harvey¹ & Frank Hopfgartner²

(¹University of Sheffield Information School; ²Universität Koblenz)



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CHIIR 2025

CONFERENCE ON HUMAN INFORMATION INTERACTION AND RETRIEVAL



DAY 0

Sunday 10th March, 8.30am-7pm



TUTORIALS, WORKSHOPS, AND DC

Halifax Hall, Endcliffe Vale Road, Sheffield, S10 3ER



WELCOME RECEPTION

Halifax Hall, Endcliffe Vale Road, Sheffield, S10 3ER

DAY 1

Monday 11th March, 8am-9pm



MAIN CONFERENCE

The Edge 1, The Endcliffe Village, The Edge, 34 Endcliffe Cres

Keynote 1, Paper sessions 1 - 3



POSTER AND DEMOS SESSION

The Edge 1, The Endcliffe Village, The Edge, 34 Endcliffe Cres

CONFERENCE ON HUMAN INFORMATION INTERACTION AND RETRIEVAL



DAY 2

Tuesday 12th March, 9am-11pm



MAIN CONFERENCE

The Edge 1, The Endcliffe Village, The Edge, 34 Endcliffe Cres
Keynote 2, Paper sessions 4 and 5, Generative AI & CHIIR



BANQUET

Kelham Island Museum, Alma St, Sheffield S3 8SA

DAY 3

Wednesday 13th March, 8am-5pm



MAIN CONFERENCE

The Edge 1, The Endcliffe Village, The Edge, 34 Endcliffe Cres
Paper sessions 6 - 8



CHIIR IT FORWARD!

The Edge 1, The Endcliffe Village, The Edge, 34 Endcliffe Cres

CONFERENCE ON HUMAN INFORMATION INTERACTION AND RETRIEVAL



DAY 4

Thursday 14th March, 8.30am-5pm



TUTORIALS AND WORKSHOPS

Halifax Hall, Endcliffe Vale Road, Sheffield, S10 3ER

GREETINGS FROM THE CHAIRS



It gives us great pleasure to welcome you to the ninth ACM SIGIR Conference on Human Information Interaction and Retrieval held in Sheffield from the 10th to the 14th of March, 2024. As it nears the end of its first decade, CHIIR has established itself as a truly interdisciplinary event bringing together a worldwide community engaged in research at the intersection of information retrieval, HCI, and information behaviour. Not only does it provide a venue for the presentation of diverse, cutting-edge and timely work but also an engaging place to meet up with colleagues and friends, both old and new. This year's programme includes 27 full and perspectives papers, eight short papers, six demos, three resources papers, and six doctoral consortium papers. Beyond the main conference, we are pleased to welcome four tutorials, three workshops and a special session on the impacts of Generative AI on Interactive IR. This year saw a large number of submissions across all tracks highlighting the maturity of the conference and the value it clearly has for researchers in the field.

We would like to especially thank the three Programme Chairs, Joemon Jose, Laurianne Sitbon and Min Zhang, who worked tirelessly to ensure the full and perspective paper reviewing and selection process went smoothly. We are equally grateful to Cathal Gurrin and Vivien Petras, the Short and Demo paper Chairs, who did a sterling job of managing the short communication submissions. Thank you also to the Workshops and Tutorials Chairs, Anita Crescenzi and Orland Hoeber, who have ensured a packed, but high-quality schedule on Sunday and Thursday. The Doctoral Consortium Chairs, Katriina Byström and Florian Meyer, managed to attract some excellent PhD candidates and a superb mentorship panel featuring leading members of the CHIIR community.

We would also like to acknowledge the hard work put in by our Proceedings Chairs, Monica Paramita and Mengdie Zhuang; our local organiser, Sophie Rutter; the Publicity Chair, Martin Halvey; the Diversity, Equity and Inclusion Chair, Yashar Moshfeghi; and our wonderful team of student volunteers.

We have two exciting keynote speakers at this year's CHIIR: the opening plenary session will be given by Elaine Toms, who is a Professor of Information Innovation and Management at the University of Sheffield Management School; the second will be given by Max Wilson, an Associate Professor of Human-Computer Interaction in the School of Computer Science at the University of Nottingham.

We thank all of the authors for contributing to the conference program by submitting their work. Each full and short paper submission was independently reviewed by three members of the program committee (PC). A member of the senior program committee (SPC) then coordinated a discussion of each paper and made a final recommendation. Finally, borderline papers were discussed by the SPC members and the PC Chairs to reach a final decision. We would also like to thank ACM SIGIR and the University of Sheffield Information School. We would finally like to sincerely thank all SPC and PC members for their time, expertise, effort, and dedication to the rigorous peer-review process.

Paul Clough, Morgan Harvey, and Frank Hopfgartner
General Chairs

ORGANISATION COMMITTEE



General Chairs



Paul Clough



Morgan Harvey



Frank Hopfgartner

Program Chairs



Min Zhang



Joemon M. Jose



Laurianne Sitbon

ORGANISATION COMMITTEE



Short Paper Chairs



Vivien Petras



Cathal Gurrin

Workshops and Tutorials Chairs



Orland Hoeber



Anita Crescenzi

ORGANISATION COMMITTEE



Doctoral Consortium Chairs



Katriina Byström



Florian Meier

Proceedings Chairs



Monica Paramita



Mengdie Zhuang

ORGANISATION COMMITTEE



Local Organiser



Sophie Rutter

Publicity Chair



Martin Halvey

DEI Chair



Yashar Moshfeghi

SOCIAL PROGRAMME



Welcome Reception

Sunday, 10 March starting at 5pm in Halifax Hall. The Welcome Reception will include drinks and snacks.



Banquet

Tuesday, 13 March starting at 6:30pm at Kelham Island Museum. Coaches will leave from the conference venue at 6pm.



KEYNOTE

MONDAY, 11 MARCH | 9:30AM



Interacting with Information is about much more than Experience!

ELAINE TOMS, UNIVERSITY OF SHEFFIELD, UK

ABSTRACT:

For nearly half a century, information retrieval and human computer interaction have operated in parallel to make finding and retrieving information and information objects more efficient and effective in a process that is at least pleasing to the user. This research has given us pinpoint precision in retrieval that is also a mostly satisfying experience. One would think the job was done!

Today just about every human endeavour is driven by the consumption of data and information, and yet our understanding of what humans do with all that data and information is limited. We are more likely to describe and evaluate that consumption in behavioural terms (e.g., keystrokes, mouseclicks, use) or perhaps outcomes (e.g., the information was found, the report was completed), while paying only 'lip service' to the workhorse – the cognitive processes (e.g., analyse, evaluation, retrieve) that are engaged and challenged in every instance of interactivity. Data/information have analogically been described as the oil and gas of the post-industrial age; in parallel, human cognitive processes can be construed as the industrial machinery. Surprisingly we do very little to support them.

There are two key threads in this talk. The first focuses on those human processes that we effectively ignore in our discussion of information/data use. We will start with the original task (i.e., what do people do?) and drill down. The second considers those tools that could facilitate cognitive processes and enable efficiencies. While typical office software provides a thousand (or more) tools that manipulate, for example, something as mundane as the colour of a pixel, we do little to support the intense work that humans do in interacting with information except for a few 'low hanging fruit' such as a word finder or grammar checker. Finally, this talk will also address the 'elephant in the room' -- AI, and whether this is the ultimate tool.



BIO:

Elaine Toms is Professor of Information Innovation & Management, Management School, University of Sheffield, UK. Her research has examined multiple facets of the information interaction problem from interruptions to serendipity, with a particular focus on evaluation, and now on the task.

KEYNOTE

TUESDAY, 12 MARCH | 9:00AM



The HCI Perspective on IR

MAX WILSON, THE UNIVERSITY OF NOTTINGHAM, UK

ABSTRACT:

The setup of the ACM CHIIR conference was an exciting culmination of a community push towards studying people and how they engage in information retrieval. I was excited to be part of these initial developments during my PhD, lucky to be able to collaborate with amazing people, and supported to volunteer as part of the community. In practice, the history between IR and HCI began decades earlier, and in many respects, CHIIR remains primarily part of the IR community. As someone firmly rooted in the HCI community, my plan for this talk is to reflect on the history of research around both IR and HCI, including my own experience of it, and to discuss future research challenges and opportunities we may face together.

BIO:

Max Wilson is an Associate Professor of Human-Computer Interaction in the Mixed Reality Lab at the University of Nottingham, UK. Max leads the Brain Data Group, which focuses on the role that mental workload plays in our every day lives as we interact with technologies. This involves a) scientifically measuring levels of mental workload in lab studies, b) evaluating how we experience mental workload in every day life, and c) unpacking the neuroethics of neurotechnology as it becomes part of our lives. His focus on this research agenda emerged from his doctoral research evaluating complex forms of search, which often leads to us building more complex search user interfaces.



PROGRAMME AT A GLANCE



Sunday
10/03

Monday
11/03

Tuesday
12/03

Wednesday
13/03

Thursday
14/03

Location	Halifax Hall	The Edge	Halifax Hall	
08:00am				
09:00am	Registration 08:30 - 09:30	Registration 08:00 - 09:00 Welcome Keynote 1 09:30 - 10:30 Break	Registration 08:00 - 09:00 Keynote 2 09:00 - 10:00 Break	Registration 08:00 - 09:15 Session 6 09:15 - 10:30 Break
10:00am	D T W			W W T
11:00am	Break	Session 1 11:00 - 12:40	Session 4 10:30 - 12:40	Break
12:00pm	D T W	Lunch 12:40 – 13:30	Lunch 12:40 – 13:45	Lunch 12:40 – 13:45
1:00pm	Lunch 13:00 – 14:00	Session 2 13:30 - 15:10 Break	Session 5 13:45 - 15:00 Break	Lunch 13:00 – 14:00
2:00pm	D T T	Session 3 15:30 - 16:45	Generative AI & CHIIR 15:30 - 17:00	Session 8 12:40 - 15:00 Break
3:00pm	Break		CHIIR Forward 15:30 - 17:00	W W T
4:00pm	D T T			Break
5:00pm	Welcome reception 17:00 – 19:00	Poster boaster		
6:00pm			Coaches leaving	
7:00pm		Poster & demos session 18:00 - 21:00		
8:00pm			Banquet 18:30 - 23:00	
9:00pm				
10:00pm				
11:00pm				

SUNDAY, 10 MARCH 2024



Location: Halifax Hall, Endcliffe Vale Road, Sheffield, S10 3ER

DOCTORAL CONSORTIUM

08:30am - 09:30am
Registration

09:30am - 05:00pm
Presentations
Dining room

Co-Chairs
Katriina Byström
Oslo Metropolitan University
Florian Meier
Aalborg University

Doctoral Student papers
A Proactive System for Supporting Users in Interactions with Large Language Models
Ben Wang
Conversational Bibliographic Search
Markus Nilles
Educational Resource Search in Scottish Schools
Vidminas Vizgirda
Identifying Textual Disinformation using Large Language Models
Marina Ernst

Supporting Neuroscience Literature Exploration by Utilising Indirect Relations Between Topics in Augmented Reality
Boyu Xu

Visualisation-Enhanced Aggregated Search Interfaces
Milad Momeni

Location: Halifax Hall, Endcliffe Vale Road, Sheffield, S10 3ER

TUTORIAL

Qualitative Research in Information Interaction: Data Gathering

08:30am - 09:30am
Registration

09:30am - 05:00pm
Tutorial
Ennis room

Abstract

Qualitative research is essential for how people interact with information. However, it is often challenging to do well. There are a plethora of possible approaches, often complementary but sometimes at odds with each other and combining quantitative and qualitative approaches to data collection adds further complexity. In this tutorial, focusing on qualitative data collection approaches, we will provide attendees with a comprehensive toolkit of CHIIR-relevant qualitative methods, including interviews.

Organisers

Dana McKay
RMIT University
Stephann Makri
City University London
George Buchanan
University of Melbourne

WORKSHOP

UnExplored FrontCHIIRs: A Workshop Exploring Future Directions for Information Access

08:30am - 09:30am
Registration

09:30am - 01:00pm
Workshop
Library

Abstract

With the rise and growing prevalence of generative models, particularly multimodal ones, it is an opportune time to explore beyond existing interactive information retrieval research trends. Indeed, it is essential to determine new avenues to explore how users interact with these models as well as revisit existing avenues that can be embellished with new technology. In this session, we aim to create a venue to workshop ideas that explore the future of search experiences and user interactions with information.

Organisers

Adam Roegiest
Zuva
Johanne R. Trippas
RMIT University

SUNDAY, 10 MARCH 2024



Location: Halifax Hall, Endcliffe Vale Road, Sheffield, S10 3ER

TUTORIAL

NORMALize: A Tutorial on the Normative Design and Evaluation of Recommender Systems

02:00pm - 05:00pm

Tutorial

Library

Abstract

The tutorial comprises two key components. The first part involves a lecture on the foundational principles of normative thinking, emphasizing the importance of reflecting on the desired state of a system rather than its current state. The second part is an interactive session where participants engage in group discussions, applying normative thinking to a specific use case.

Organisers

Johannes Kruse

TU Denmark

Lien Michels

University of Antwerp

Alain Starke

University of Bergen

Nava Tintarev

Maastricht University

Sanne Vrijenhoek

University of Amsterdam

Location: The Edge 1, The Endcliffe Village, The Edge, 34 Endcliffe Cres

MAIN CONFERENCE - DAY 1

08:00am - 09:00am	12:40pm - 01:30pm	The Effect of Simulated Contextual Factors on Recipe Rating and Nutritional Intake Behaviour Mengyisong Zhao, Morgan Harvey, David Cameron and Frank Hopfgartner
Registration	Lunch	
09:30am - 10:00am	1:30pm - 3:10pm	Paper session 2: Presentation Session chair: Jaime Arguello
Welcome		
09:30am - 10:30am		
Keynote: Elaine Toms	Mobile search made easier: An ability-based mobile search prototype for people with dyslexia Jason Reed, Andrew Macfarlane and Stephann Makri	The Dark Matter of Serendipity in Recommender Systems Denis Kotkov, Alan Medlar, Triin Kask and Dorota Glowacka
10:30am - 11:00am	Improving expert search effectiveness: Comparing ways to rank and present search results Thomas Schoege, Lynda Hardman, Arjen de Vries and Toine Pieters	
Break		
11:00am - 12:40pm		
Paper session 1: Behavioural Analysis and Information Use Session chair: Chirag Shah	Visual Keyword/Result Linking: Using Interaction to Dynamically Reveal Relationships Orland Hoeber, Abbas Pirmoradi, Sebastian Gomes, Baran Erfani, Zakiyyah Noorally and Yug Shah	
Unveiling Health Literacy through Web Search Behavior: A Classification-Based Analysis of User Interactions Carla Teixeira Lopes and Mariana Henriques		
Why Do Customers Return Products? Using Customer Reviews to Predict Product Return Behaviors Hao-Fei Cheng, Eyal Krikon and Vanessa Murdock	The Influence of Presentation and Performance on User Satisfaction Kanaad Pathak, Leif Azzopardi and Martin Halvey	
Uncharted Territory: Understanding Exploratory Search Behaviours in Literature Reviews Ayah Soufan, Ian Ruthven and Leif Azzopardi	3:10pm - 3:30pm	
	Break	
	3:30pm - 4:45pm	
The Impact of CHIIR Publications: A Study of Eight Years of CHIIR Toine Bogers, Maria Gäde, Mark M Hall, Marijn Koolen, Vivien Petras and Birger Larsen	Paper session 3: Recommendation Session chair: Toine Bogers	
	Trust Through Recommendation in E-Commerce Maria Saxborn, Yuechen Pan and Alan Said	

LIST OF SHORT PAPERS, RESOURCES, AND DEMO PAPERS



Decoding Distress: How Search Engine Data Reveals Socioeconomic Disparities in Mental Health Hengyi Fu	Assisted Knowledge Graph Authoring: Human-Supervised Knowledge Graph Construction from Natural Language Marcel Gohsen and Benno Stein	QookA: A Cooking Question Answering Dataset Alexander Frummet and David Elsweiler
Enabling Exploratory Browsing using Dynamic Search Result Tagging, Highlighting, and Filtering Abbas Pirmoradi and Orland Hoeber	FrameFinder: Explorative Multi-Perspective Framing Extraction from News Headlines Markus Reiter-Haas, Beate Klösch, Markus Hadler and Elisabeth Lux	“You tell me”: A Dataset of GPT-4-Based Behaviour Change Support Conversations Selina Meyer and David Elsweiler
Enhancing Human Annotation: Leveraging Large Language Models and Efficient Batch Processing Oleg Zendel, J. Shane Culpepper, Falk Scholer and Paul Thomas	From Chat to Publication Management: Organizing your related work using BibSonomy & LLMs Tom Völker, Jan Pfister, Tobias Koopmann and Andreas Hotho	SiTunes: A Situational Music Recommendation Dataset with Physiological and Psychological Signals Vadim Grigorev, Jiayu Li, Weizhi Ma, Zhiyu He, Min Zhang, Yiqun Liu, Ming Yan and Ji Zhang
Modeling Activity-Driven Music Listening with PACE Lilian Marey, Bruno Sguerra and Manuel Moussallam	JayBot -- Aiding University Students and Admission with an LLM-based Chatbot Julius Odede and Ingo Frommholz	
Product Query Recommendation for Enriching Suggested Q&As Soomin Lee, Eilon Sheetrit, Omar Alonso and Avihai Mejer	Mixed Reality Interaction Enhanced by Whiteboard for Product Search Yuya Tsuda, Takehiro Yamamoto and Hiroaki Ohshima	
Product Spam on YouTube: A Case Study Janek Bevendorff, Matti Wiegmann, Martin Potthast and Benno Stein	Walert: Putting Conversational Information Seeking Knowledge into Action by Building and Evaluating a Large Language Model-Powered Chatbot Sachin Pathiyan Cherumanal, Lin Tian, Futoon M. Abushaqra, Angel Felipe Magnossão de Paula, Kaixin Ji, Danula Hettiachchi, Johanne R. Trippas, Halil Ali, Falk Scholer and Damiano Spina	
RULKKG: Estimating User’s Knowledge Gain in Search-as-Learning Using Knowledge Graphs Hadi Nasser, Dima El Zein, Celia Da Costa Pereira, Cathy Escazut and Andrea Tettamanzi		
Task Supportive and Personalized Human-Large Language Model Interaction: A User Study Ben Wang, Jiqun Liu, Jamshed Karimnazarov and Nick Thompson		

Location: The Edge 1, The Endcliffe Village, The Edge, 34 Endcliffe Cres

MAIN CONFERENCE - DAY 2

08:00am - 09:00am

Registration

09:00am - 10:00am

Keynote: Max Wilson

10:30am - 11:00am

Break

10:30am - 12:40am

Paper session 4: Engagement

Session chair: Ian Ruthven

Stopped yet Completed: Exploring the Relationships between Session-stopping Reasons, Information Types, and Cognitive Activities in Cross-Session Searches

Yuan Li and Rob Capra

From Potential to Practice: Intellectual Humility During Search on Debated Topics

Alisa Rieger, Frank Bredius, Mariët Theune and Maria Soledad Pera

A User Study on the Acceptance of Native Advertising in Generative IR

Ines Zelch, Matthias Hagen and Martin Potthast

Seeking Socially Responsible Consumers: Exploring the Intention-“Search”-Behaviour Gap

Leif Azzopardi and Frans van der Sluis

Generative Information Systems Are

Great If You Can Read

Adam Roegiest and Zuzana Pinkosova

12:40pm - 01:45pm

Lunch

1:45pm - 3:00pm

Paper session 5: Search

Session chair: Orland Hoeber

Teachable Facets: A Framework of Interactive Machine Teaching for Information Filtering

Swati Mishra, Matt Ryerkerk, Yitzchak D. Lockerman, David Eis and Jeffrey M. Rzeszotarski

Something Just Like This: A Secret History of the Role of Analogues in Information Seeking

Huiwen Zhang, Dana McKay, Michael Twidale and George Buchanan

Human and Large Language Model Intent Detection in Image-Based Self-Expression of People with Intellectual Disability

Alieh Hajizadeh Saffar, Laurianne Sitbon, Maria Hoogstrate, Ahmed Abbas, Sirinthip Roomkhham and Dimity Miller

3:00pm - 3:30pm

Break

3:30pm - 5:00pm

Generative AI and CHIIR

Location: The Edge 1, The Endcliffe Village, The Edge, 34 Endcliffe Cres

MAIN CONFERENCE - DAY 3

09:00am - 09:15am	Registration	Balancing Act: Boosting Strategies for Informed Search on Controversial Topics	3:00pm - 3:30pm
09:15am - 10:30am	Paper session 6: Conversation Session chair: Johanne Trippas	Markus Bink and David Elsweiler On the Effects of Automatically Generated Adjunct Questions for Search as Learning	Break 3:30pm - 5:00pm
Towards Self-Contained Answers: Entity-Based Answer Rewriting in Conversational Search Ivan Sekulić, Krisztian Balog and Fabio Crestani	[citation needed]: An Examination of Types and Purpose of Evidence Provided in Three Online Discussions on Reddit Dana McKay, Stephan Makri and George Buchanan	Peide Zhu, Arthur Câmara, Nirmal Roy, David Maxwell and Claudia Hauff The Effects of Goal-setting on Learning Outcomes and Self-Regulated Learning Processes	CHIIR Forward!
Restarting the conversation about conversational search: exploring new possibilities for multimodal and collaborative systems with people with intellectual disability Sirinthip Roomkham and Laurianne Sitbon	12:40pm - 1:45pm Lunch	Kelsey Urgo and Jaime Arguello Paper session 8: Information you can see Session chair: Laurianne Sitbon	
10:30am - 11:00am Break	Comparing Traditional and LLM-based Search for Image Geolocation Albatool Wazzan, Stephen MacNeil and Richard Souvenir	Exploring the Impact of Verbal-Imagery Cognitive Style on Web Search Behaviour and Mental Workload Huimin Tang, Johann Benerradi, Horia A. Maior, Matthew Pike, Aleksandra Landowska and Max L. Wilson	
11:00am - 12:40am Paper session 7: Learning & Information Acquisition Session chair: Rob Cabra	Keepin' it Reel: Investigating how Short Videos on TikTok and Instagram Reels Influence View Change A. Mole, S. Makri and Dana McKay		
Design Principles for a Study Planning Assistant in Higher Education Lena Bartel, Michaela Ochs, Tobias Hirmer and Andreas Henrich			

Location: Halifax Hall, Endcliffe Vale Road, Sheffield, S10 3ER

WORKSHOP

The Information we Need, When we Need it... As We Get Ever Closer, Is this Still Ideal?

08:30am - 09:30am
Registration

09:30am - 05:00pm
Workshop
Library

Abstract

An oft-repeated ideal of personal information management (PIM) is to have “the right information, at the right time, in the right place. . .” for the current need. But the technologies and innovations that bring us ever closer to this ideal carry costs as well as benefits. In this ninth in a series of PIM workshops, we give closer, critical consideration to the “right time, right place” ideal of PIM. Can we manage the potential downsides involved in achieving this ideal, while preserving its obvious benefits? Or should we revise our ideal of PIM?

Organisers

Rob Cabra
University of North Carolina
Mary Czerwinski
Microsoft Research
Jesse David Dinneen
Humboldt University
Jacek Gwizdka
University of Texas, Austin
William Jones
University of Washington
Unmil Karadkar
University of Graz

WORKSHOP

The Eighth Workshop on Search-Oriented Conversational Artificial Intelligence

08:30am - 09:30am
Registration

09:30am - 05:00pm
Workshop
Ennis room

Abstract

The eighth edition of the search-oriented conversational AI (SCAI) workshop brings together practitioners and researchers from various disciplines to discuss challenges and advances in conversational search systems. This year's edition focuses on evaluations beyond relevance and accuracy and looks at conversational search from the user's perspective.

Organisers

Alexander Frummet
Universität Regensburg
Andrea Papenmeier
University of Twente
Maik Fröbe
Universität Jena
Johannes Kiesel
Bauhaus-Universität Weimar

Location: Halifax Hall, Endcliffe Vale Road, Sheffield, S10 3ER

TUTORIAL

The Concept of Information Need and its Operationalization in CHIIR Research

08:30am - 09:30am

Registration

09:30am - 01:00pm

Tutorial

Dining room

Abstract

One of the most utilized concepts in CHIIR research is ‘information need’, which has been used as part of research designs in both qualitative and quantitative studies, either as an integral element of experiments and evaluations or as an explanatory aspect of information searching. Its definitions and operationalizations are likewise many and they often remain vague hindering the possibility to credibly compare findings.

Organisers

Katriina Byström
Oslo Metropolitan University
Sanna Kumpulainen
Tampere University
Nils Pharo
Oslo Metropolitan University
Ian Ruthven
University of Strathclyde

TUTORIAL

Search under Uncertainty: Cognitive Biases and Heuristics - A Tutorial on Modeling Search Interaction using Behavioural Economics

02:00pm - 05:00pm

Tutorial

Dining room

Abstract

This half day tutorial will provide a starting point for researchers seeking to learn more about information searching under uncertainty. First, we will provide an introduction of the biases and heuristics program which assumes that people are not always rational. The second part of the tutorial will provide an overview of the types and space of biases in search. The tutorial will wrap up with a discussion of some of the practical implication for how we can better design and evaluate IR systems in the light of cognitive biases.

Organisers

Leif Azzopardi
University of Strathclyde
Jiqun Liu
University of Oklahoma

INFORMATION ABOUT SHEFFIELD



Sheffield is England's fourth largest city, with an impressive industrial past and a redesigned city centre. This is a place with an important civic history. New fountains, new hotels and the attractive Winter Gardens enhance the bustling centre. Originally famous for steel manufacturing, Sheffield is clean, green and has an excellent reputation for safety. Shops abound in the city centre – from department stores to independent boutiques – with further shopping in one of Europe's largest retail centres, Meadowhall, easily accessible by our Supertram.

What could be better than a big city set within a park? From the University campus it's about ten minutes' walk into town. Take the bus heading in the opposite direction and in about fifteen minutes you are in beautiful open countryside. Derbyshire is just on our doorstep and about a third of Sheffield is within this rural setting. The Peak District National Park has magnificent scenery, historic houses, fine walking country, and some of the best rock climbing within the UK.

Top 10 things to do in Sheffield:
<https://www.welcometosheffield.co.uk/visit/things-to-see-and-do/top-10-things-to-see/>

Getting around Sheffield

If you arrive at Sheffield by rail the easiest way to get to the conference venue (The Edge, Endcliffe Village) is by taxi. This will cost around £5 and you simply need to ask for "The Edge" or "Endcliffe Village". If you want to take the bus then you need to catch bus number 120 from Sheffield Interchange heading towards Fulwood and get off at the Fulwood Road stop (important note: only take "First" buses, not "Stagecoach", which go a different route). Sheffield Interchange is the main bus and coach station located in the centre of Sheffield, across the road from the train station. The 120 bus operates every 8 to 10 minutes. From Fulwood Road, there is a further 10 minute walk to Endcliffe Village, which is signposted on the main road.



VENUE: ENDCLIFFE VILLAGE



The main conference (11-13 March) will be held at the University of Sheffield in the Endcliffe Village, a ten minute drive from the city centre. Workshops, tutorials, and the doctoral consortium on 10 and 14 March will be held at Halifax Hall.

A map of the area is shown on the next pages, showing the location of both The Edge and the Halifax building. Both buildings are a pleasant 5 minute walk from each other.



AROUND ENDCLIFFE VILLAGE





To the north, Endcliffe Village is a short walk from Fulwood Road, which contains a range of pubs and restaurants. Walking in the opposite direction, Ecclesall Road is a 15 minute walk away, which contains a large number of different places to eat and drink. **The map on the next page shows the area around Endcliffe Village, and the routes to the city centre.** The 120 "First" bus route goes via West Street, which is one of the popular "going out" places in Sheffield.

THE EDGE



The Edge venue is situated just a ten minute drive from Sheffield city centre and offers **FREE** car parking to all guests. The Edge is also close to a very reliable bus route that runs through the city centre with buses running every 20 minutes to the train and bus station.



CHIIR 2024 SPONSORS & SUPPORTERS



SPONSORS



SUPPORTERS



CHIIR 2024: ACM SIGIR Conference on Human Information Interaction and Retrieval

10 - 14 Mar, 2024
Sheffield, UK

Featured journals: TOIS, TOCHI, COLA, TORS, Tiis & PACM HCI

ACM Transactions on Information Systems (TOIS)

ACM *Transactions on Information Systems* (TOIS) seeks previously unpublished papers on information retrieval (such as search engines, recommender systems, conversational search agents) that contain: new principled information retrieval models or algorithms with sound empirical validation; observational, experimental and/or theoretical studies yielding new insights into information retrieval or information seeking; accounts of applications of existing information retrieval techniques that shed light on the strengths and weaknesses of the techniques; formalization of new information retrieval or information seeking tasks and of methods for evaluating the performance on those tasks; development of content (text, image, speech, video, etc.) analysis methods to support information retrieval and information seeking; development of computational models of user information preferences and interaction behaviors; creation and analysis of evaluation methodologies for information retrieval and information seeking; or exceptionally well-written surveys of existing work that propose a significant synthesis.

<https://tois.acm.org>



ACM Transactions on Computer-Human Interaction (TOCHI)

ACM *Transactions on Computer-Human Interaction* (TOCHI) covers the software, hardware, and human aspects of interaction with computers. Topics include hardware and software architectures; interactive techniques, metaphors, and evaluation; user interface design processes; and users and groups of users. Those within the artificial intelligence, object-oriented systems, information systems, graphics and software engineering communities will benefit from the high-quality research papers in TOCHI concerning information and ideas directly related to the construction of effective human-computer interfaces.

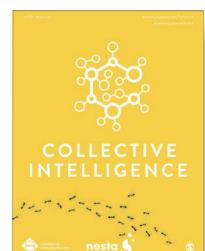
<https://tochi.acm.org>



Collective Intelligence (COLA)

Collective Intelligence (COLA), co-published by SAGE and ACM, with the collaboration of Nesta, is a global, peer-reviewed, open-access journal that publishes trans-disciplinary work bearing on collective intelligence across the disciplines. The journal embraces a policy of creative rigor in the study of collective intelligence to facilitate the discovery of principles that apply across scales and new ways of harnessing the collective to improve social, ecological, and economic outcomes. In that spirit, the journal encourages a broad-minded approach to collective performance. We welcome perspectives that emphasize traditional views of intelligence as well as optimality, satisficing, robustness, adaptability, and wisdom. In more technical terms, this includes issues related to collective output quality and assessment, aggregation of information and related topics (e.g., network structure and dynamics, higher-order vs. pairwise interactions, spatial and temporal synchronization, diversity, etc.), accumulation of information by individuals/components, environmental complexity, evolutionary considerations, and design of systems and platforms fostering collective intelligence.

<https://cola.acm.org>



CHIIR 2024: ACM SIGIR Conference on Human Information Interaction and Retrieval

10 - 14 Mar, 2024

Sheffield, UK

Featured journals: TOIS, TOCHI, COLA, TORS, TiiS & PACMHCI

ACM Transactions on Recommender Systems (TORS)

ACM Transactions on Recommender Systems (TORS) publishes high quality papers that address various aspects of recommender systems research, from algorithms to user experience, to questions of the impact and value of such systems, on a quarterly basis. The journal takes a holistic view on the field and calls for contributions from different subfields of computer science and information systems, such as machine learning, data mining, information retrieval, web-based systems, data science and big data, and human-computer interaction. Moreover, interdisciplinary research works are welcome as well. Such works may either be based on insights from related fields, e.g., marketing or psychology, or apply recommendation technology in novel application areas.

<https://tors.acm.org>



ACM Transactions on Interactive Intelligent Systems (TiiS)

ACM Transactions on Interactive Intelligent Systems (TiiS) is a journal for research on intelligent systems that people interact with. TiiS publishes articles concerning the design, realization, or evaluation of interactive systems that incorporate certain form of machine intelligence. Such interactive intelligent systems are associated with a set of defining characteristics. In addition, TiiS articles come from a wide range of research areas and communities. An article can take any of several complementary views of interactive intelligent systems with a focus on (a) the intelligent technology, (b) the interaction of users with the system, or (c) both aspects at the same time.

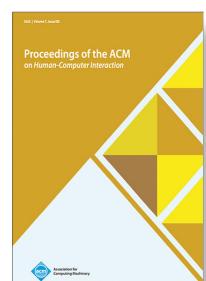
<https://tiis.acm.org>



Proceedings of the ACM on Human Computer Interaction (PACMHCI)

Proceedings of the ACM on Human Computer Interaction (PACMHCI) is a journal for research relevant to multiple aspects of the intersection between human factors and computing systems. Characteristics of humans, from individual cognition to group effects to societal impacts, shape and are shaped by computing systems. Human and computer interactions affect multiple aspects of daily life, shape mass social changes, and guide novel computing experiences. These interactions are studied via multiple methods, including ethnography, surveys, experiments, and system implementation among others. PACMHCI covers a broad range of topics and methods that help illuminate the intersection between humans and computing systems. The scope of this journal includes research contributions in new systems for input and output, studies of user experiences with computing systems, scholarship on the individual and group effects of computer mediation, and societal impacts of new human computer interactions. PACMHCI also welcomes contributions on new methodologies, tools, theories, and models, as well as visionary and survey papers that help advance the field.

<https://pacmhcி.acm.org>



To view a listing of all ACM journals in the ACM Digital Library, visit <https://dl.acm.org/journals>.



Association for Computing Machinery



Melbourne, Australia
24th-28th March 2025

Welcome to Australia! CHIIR 2025 will be held in Melbourne, the capital of the state of Victoria, Australia's "Education State". Melbourne is a thriving global city, ranked the 3rd most liveable in the world. We have a bustling downtown, sandy beaches, millennia of indigenous culture and some of the world's best food and drink, particularly our coLee. CHIIR 2025 will be based in downtown Melbourne, close to the main cultural sights and the thriving eateries of the lanes and Chinatown.

Provisional dates for 2025 are:

Abstract submissions for full and perspective papers: Monday, 14th October

Submissions for tutorials and workshops: Friday 18th October

Final submissions for full and perspective papers: Monday 21st October

Submissions for demos, short papers and doctoral consortium: Thursday 31st October

Notifications: Friday 30th November

Conference: 24th to 28th March

We are giving you plenty of notice before the conference to ensure travel is aLordable for all attendees. Final confirmation of these dates is expected early September 2024.

We're looking forward to seeing you in Melbourne!

