

October 21–25, 2023
Birmingham, United Kingdom



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Computing Machinery

Advancing Computing as a Science & Profession



CIKM '23

Proceedings of the 32nd ACM International Conference on Information and Knowledge Management

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**Association for
Computing Machinery**

Advancing Computing as a Science & Profession

The Association for Computing Machinery

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ISBN: 979-8-4007-0124-5

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Printed in the USA

CIKM '23 General Chairs' Welcome

We welcome you to the 2023 ACM International Conference on Information and Knowledge Management (CIKM 2023) in Birmingham, UK! Birmingham is located in the West Midlands of England, an area that was instrumental in driving the Industrial Revolution, and an excellent place for researchers to gather and discuss the opportunities and challenges of the next, AI- and data-driven, revolution. CIKM is traditionally held once a year at different locations all over the world. Although deemed to be a full physical conference, CIKM 2023 live streams selected sessions over an Internet-based virtual platform, which enables remote delegates to attend the conference. We are also planning to apply some novel ways for the online delivery of talks, with the aim of accommodating different time zones.

CIKM 2023 is the 32nd running of the conference and remains the only conference that focuses on the management of both structured and unstructured data, accepting research papers covering databases, information retrieval, and knowledge management sub-disciplines of Computer Science. CIKM again includes an Industry Day as a full-day event with 14 accepted talks. Papers are solicited in five tracks: full research papers, short research papers, resource papers, applied research papers and demonstration papers. 16 workshops will enable researchers to discuss the latest breaking results and 9 tutorials will provide interested delegates with useful basic insights into trending fields. A PhD Symposium will bring together senior researchers with PhD students to discuss the exciting work of these early-career researchers who will contribute to shaping tomorrow's world.

The call for papers attracted submissions from every continent. The table below reports the reviewing and acceptance information. For the five main paper tracks, we received 2435 submissions and accepted 629 submissions, with an acceptance rate of 27%. Detailed statistics for the main paper tracks are below.

Track	Submissions	Accepted	Acceptance Rate
Long/Full Papers	1472	354	24%
Short Papers	554	152	27%
Applied Research Papers	254	75	32%
Demo Papers	74	26	35%
Resource Papers	81	22	27%

We are very happy to have attracted world-leading keynote speakers. The valuable and insightful talks from these international leaders will inspire new research frontiers:

- ***Interpretable Natural Language Understanding***, Yulan He, Professor in Natural Language Processing, King's College London, UK
- ***Generative AI and the Future of Information Access***, Chirag Shah, Professor of Information and Computer Science, University of Washington (UW) in Seattle, USA
- ***Knowledge graphs for knowing more and knowing for sure***, Steffen Staab, Professor, University of Stuttgart (Germany) and University of Southampton (UK)

Organizing a conference such as CIKM requires the dedication and effort of many volunteers. We are grateful to an outstanding group of colleagues for serving on the organization team and for generously contributing their time and energy:

Program Chairs: Mounia Lalmas, Min Zhang and Rodrygo Santos

Short Paper Program Chairs: Hideo Joho, Wei Ding and Emine Yilmaz

Applied Research Track Chairs: Claudia Hauff and Nikos Aletras

Workshop Chairs: Lina Yao and Martin Halvey

Tutorial Chairs: Sole Pera and Joemon Jose

Analyticup Chairs: Cathal Gurrin, Prasenjit Majumder & Alexandros Karatzoglou

Resources and Demo Chairs: Kokil Jaidka and Hamed Alhoori

Publicity Chair: Mat Kelly

Diversity and Inclusion Chairs: Madhu Agrawal and Lisette Espín-Noboa

Sponsorship Chair: Martin White

Local and Online Chairs: Ziqi Zhang and Jordan Brennan

Proceedings Chair: Carl Yang and Chanyoung Park

Industry Day Chairs: Jiyin He, Jeremy Pickens and Udo Kruschwitz

PhD Symposium Chairs: Haiming Liu and Christine Bauer

The conference would be impossible to organize without their volunteer spirit.

We further thank the Conferences & Events Team at the University of Birmingham and the local team at Eastside Rooms in Birmingham. We have also benefited from advice and mentoring from all the members of the CIKM Steering Committee, especially the present chair, Alistair Moffat. Alistair offered his support with the many new processes and procedures we are introducing this year. We are also grateful to last year's CIKM 2022 organizers, Mohammad Al Hasan and Li Xiong, as well as Stefan Dietze, CIKM 2020 organizer, for providing us with useful advice on how to organize an event like CIKM. We sincerely appreciate the support of all our sponsors. A big thanks goes to ACM SIGIR and ACM SIGWEB. Their generous support enables us to provide full support to a selected number of students. We sincerely thank Sole Pera for selecting SIGIR student travel award recipients. We are also grateful to the West Midlands Growth Company for their support, as well as to our respective universities, the University of Wolverhampton, the University of Koblenz and the University of Birmingham, for providing us with time and resources to act as general chairs. Finally, we thank all student volunteers who were willing to help us with preparing and conducting the event.

We hope that you will enjoy the conference and will utilize the opportunity to share and discuss ideas with other researchers and practitioners around the world.

Ingo Frommholz

CIKM 2023 General Chair

University of Wolverhampton, UK

Frank Hopfgartner

CIKM 2023 General Chair

Universität Koblenz, Germany

Mark Lee

CIKM 2023 General Chair

University of Birmingham, UK

Michael Oakes

CIKM 2023 General Chair

University of Birmingham, UK

CIKM '23 Program Chairs' Welcome

It is our great pleasure to welcome you to the 32nd ACM International Conference on Information and Knowledge Management (CIKM 2023), held in Birmingham, UK from October 21–25, 2023. CIKM is a top-tier ACM conference in the areas of information retrieval, knowledge management and databases. Since 1992, it has successfully brought together leading researchers and developers from the three communities, with the purpose of identifying challenging problems facing the development of advanced knowledge and information systems and shaping future research directions through the publication of high quality, applied and theoretical research findings. CIKM 2023 continues to create an outstanding technical program including research paper presentations; poster presentations for short papers and resource papers; applied research paper presentations; and demonstration paper presentations. In total, we have received 1472 full research papers, 554 short research papers, 235 applied research papers, 81 resource papers, and 74 demo papers. These papers were submitted from 59 countries.

Submissions were reviewed by a qualified panel of 1883 program committee (PC) members, whereas 416 senior PC members (SPC) were responsible for the meta-reviewing of the submissions across all tracks. This was followed by discussion by the SPC/PC members and final decisions were made taking into account the SPC metareviews, the PC discussions and reviews. The full research track accepted 354 full papers (24% acceptance rate), whereas 152 papers (27%) were accepted as short research papers, 75 papers (32%) were accepted as applied research papers, 22 papers (27%) were accepted as resource papers, and 26 papers (35%) were accepted as demonstration papers. The overall acceptance rate is 26.6%.

We are grateful to everyone who made this technical program possible. First, we would like to thank all the contributing authors who submitted their excellent work. The conference would not exist without your contributions. Second, we would like to recognize the immense efforts of the senior program committee members, program committee members, and external reviewers, who selected the technical program with their great expertise. We would also like to show our gratitude to the keynote speakers who have agreed to deliver in-person keynote speeches, which makes the conference program rich, diverse, and attractive.

We hope you enjoy the program and the opportunity to interact and collaborate with friends and colleagues from around the world. We also hope that the papers from the applied research track and the demonstration track provide you with a valuable opportunity to exchange ideas between academic researchers and practitioners from industry and government around the world.

CIKM 2023 Program Chairs:

<i>Research Track</i>	<i>Short Papers Track</i>	<i>Applied Research Track</i>	<i>Resources and Demo Track</i>
Mounia Lalmas	Emine Yilmaz	Claudia Hauff	Kokil Jaidka
Min Zhang	Hideo Joho	Nikos Aletras	Hamed Alhoori
Rodrygo Santos	Wei Ding		

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