

Preface to the 13th Workshop on Bibliometric-enhanced Information Retrieval at ECIR 2023

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Abstract

This preface summarizes the 13th Workshop on Bibliometric-enhanced Information Retrieval (BIR). BIR 2023 was held as hybrid event at April 2nd, 2023, co-located with the 45th European Conference on Information Retrieval (ECIR 2023).

1. Introduction

These are the proceedings of the 13th Workshop on Bibliometric-enhanced Information Retrieval (BIR 2023)¹. BIR 2023 was held as a hybrid event at the European Conference on Information Retrieval (ECIR) in Dublin, Ireland. The aim of the Bibliometric-enhanced Information Retrieval workshop series is to bring together researchers from different communities, especially scientometrics/bibliometrics and information retrieval. In doing so, BIR has a long-established tradition. It was launched at ECIR in 2014 [1] and has been held at ECIR each year since then. As the topic of our workshop lies at the intersection between IR and NLP, we also ran BIR as a joint workshop called BIRNDL (Bibliometric enhanced IR and NLP for Digital Libraries) at the JCDL and SIGIR conferences, respectively.

BIR 2023: 13th International Workshop on Bibliometric-enhanced Information Retrieval at ECIR 2023, April 2, 2023

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 CEUR Workshop Proceedings (CEUR-WS.org)

¹All pointers to past and future workshops as well as to proceedings are hosted at <https://sites.google.com/view/bir-ws/>

2. Overview of the papers

This year seven submissions were accepted as full papers. The submissions have been peer-reviewed and presented at the workshop. In addition, the workshop featured two keynote talks. All workshop contributions are documented on the workshop website². The following section briefly lists the various contributions. The respective extended abstracts and papers are contained in these proceedings.

2.1. Keynotes

We had two keynote speakers this year.

Andrea Scharnhorst (Royal Netherlands Academy of Arts and Sciences, Netherlands)

Documenting the research process. Opportunities and challenges for Bibliometrics and IR.

Jakub Zavrel (Zeta Alpha, Netherlands) Knowledge Discovery in the Age of LLMs.

2.2. Research papers

The following research papers were presented.

- Léane Jourdan, Florian Boudin, Richard Dufour and Nicolas Hernandez:
Text revision in Scientific Writing Assistance: A Review
- Debayan Banerjee, Sushil Awale, Ricardo Usbeck and Chris Biemann:
DBLP-QuAD: A Question Answering Dataset over the DBLP Scholarly Knowledge Graph
- Veronika Ivanova, Oleg Lashinin, Marina Ananyeva and Sergey Kolesnikov:
RecBaselines2023: a new dataset for choosing baselines for recommender models
- Marc Bertin and Iana Atanassova:
Citing Foreign Language Sources : an Analysis of the S2ORC Dataset
- Rand Alchokr, Rayed Haider, Yusra Shakeel, Thomas Leich, Gunter Saake and Jacob Krüger:
Forecasting Publications' Success Using Machine Learning Prediction Models
- Andreas Nishikawa-Pacher:
Scientific Journals' Twitter Accounts and Impact Factor: A Causal Analysis Based on a Synthetic Control
- Marcin Oleksy, Przemysław Kazienko and Maciej Dzieżyc:
Evaluating the Effectiveness of Research Grants with Journal Bibliometrics

²<https://sites.google.com/view/bir-ws/bir-2023>

3. Further reading

In 2020, the BIR organizers have edited a Special issue on “Scholarly literature mining with Information Retrieval and Natural Language Processing”³ in the journal *Scientometrics* (Springer). In total, fourteen papers on all aspects of academic search were accepted, see an overview [2].

Since 2016 we maintain the “Bibliometric-enhanced-IR Bibliography”⁴ that collects scientific papers which appeared in collaboration with the BIR/BIRNDL organizers.

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We also like to thank the ECIR 2023 organisers for providing an environment that made BIR 2023 an enjoyable and exciting event.

References

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- [2] G. Cabanac, I. Frommholz, P. Mayr, Scholarly literature mining with Information Retrieval and Natural Language Processing: Preface, *Scientometrics* 125 (2020) 2835–2840. doi:10.1007/s11192-020-03763-4.

³<https://sites.google.com/view/scientometrics-si2019-bir>

⁴https://github.com/PhilippMayr/Bibliometric-enhanced-IR_Bibliography/