CALL FOR PAPERS
ACM Journal of Data and Information Quality
Special Issue on Reproducibility in Information Retrieval

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Aim

Information Retrieval is a discipline that has been strongly rooted in experimentation since its inception. Experimental evaluation has always been a strong driver for IR research and innovation, and these activities have been shaped by large scale evaluation campaigns such as TREC, CLEF, NTCIR and FIRE.

IR systems are getting more and more complex. They need to cross language and media barriers; they span from unstructured, to semi-structured, to highly structured data; and they are faced with diverse and complex user information needs, search tasks, and societal challenges. As a consequence, evaluation and experimentation, which has remained a fundamental element, has in turn become increasingly sophisticated and challenging.

In this context, *repeatability*, *reproducibility*, and *generalizability* of experiments and results cannot be taken for granted. Indeed we need to emphasize these aspects as key requirements if we wish to continue to reliably and durably advance research and technology in the field. In turn, we need to actively pursue them as a core part of our experimental methodology and practice.

In this special issue of JDIQ, we aspire to provide an overview of innovative research at the *intersection of information retrieval and data quality*, from theory to practice, with a focus on challenges, solutions, and experiences in *reproducibility of IR experimental results*.

Topics - Specific topics within the scope of the call include, but are not limited to, the following:

- Analysis of reproducibility challenges in system-oriented evaluation
- Analysis of reproducibility challenges in user-oriented evaluation
- General reproducibility frameworks for IR
- Lessons learned in reproducing third-party experiments
- Reproducibility of query results
- Reproducibility challenges on private or proprietary data
- Reproducibility challenges on ephemeral data, like streaming data, tweets, etc.
- Reproducibility challenges on online experiments, e.g., A/B testing
- Reproducibility in evaluation campaigns
- Evaluation infrastructures and Evaluation as a Service (EaaS)
- Experiment data management, data curation, and data quality
- Data models, semantic or not, for IR experimental data
- Reproducible experimental workflows: tools and experiences
- Quality of IR experimental data
- Data Citation: citing experimental data, dynamic data sets, samples, and statistical analyses

Expected contributions - We welcome the following two types of contributions:

- Research manuscripts reporting mature results [25+ pages].
- Experience papers that report on lessons learned from addressing specific issues towards improved quality and reproducibility of experimental results [12+ pages plus an optional appendix].

If this is an extension of prior published work, then submitted manuscripts must contain at least 30% new material, and the significant new contributions must be clearly identified in the introduction.

Submission guidelines with Latex (preferred) or Word templates are available here:
http://jdiq.acm.org/authors.cfm#subm

I**mportant dates:**

Initial submission:	Friday, October 6, 2017	Second review:	Friday, May 11, 2018
First review:	Thursday, December 7, 2017	Camera-ready manuscripts:	Friday, July 13, 2018
Revised manuscripts:	Friday, March 9, 2018	Publication:	Late October 2018

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ACM Journal of Data and Information Quality

Providing Research and Tools for Better Data

JDIQ is a multi-disciplinary journal that attracts papers ranging from theoretical research to algorithmic solutions to empirical research to experiential evaluations. Its mission is to publish high impact articles contributing to the field of data and information quality (IQ). IQ covers a wide range of dimensions including accuracy and completeness, provenance, lineage and trust, understandability and accessibility. Research contributions can range from modeling and measurement of quality, to improvement of quality with data cleansing methods, to organizational management of quality, to evaluations of quality in real scenarios.

Given the diversity of disciplines and author interests, we also welcome experience papers, typically submitted by a practitioner or industrial researcher who has a compelling application, interesting dataset or valuable teaching tool, to share with our readers. Finally, we are accepting two-page vision papers that describe a major research challenge to the JDIQ community.

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