

CALL FOR PAPERS

ACM Journal of Data and Information Quality

Special Issue on Data Transparency

Guest Editors:

Mahmoud Barhamgi, Lyon 1 University, France (mahmoud.barhamgi@univ-lyon1.fr)

Elisa Bertino, Purdue University, USA (bertino@purdue.edu)

Advances in Artificial Intelligence (AI), mobile and Internet technologies have been progressively reshaping our lives over the past few years. The applications of IoT and cyber-physical systems today touch almost all aspects of our daily lives including healthcare (e.g., remote patient monitoring environments), leisure (e.g., smart entertainment spaces), and work (e.g., smart manufacturing, asset management). For many of us, social media has become the rule rather than the exception as the way to interact, socialize and exchange information. AI powered systems have become a reality and started to affect our lives in important ways. These systems and services collect huge amounts of data about us and exploit it for various purposes that could affect positively and negatively our lives. Even though most of these systems claim to abide by data protection regulations and ethics, data misuse incidents keep making the headlines (e.g., the case of Facebook-Cambridge Analytica). In this new digital world, data transparency for end users is becoming a fundamental aspect to consider when the system/service/software is designed, implemented and operationalized. Transparency allows the user to track down and follow how their data is collected, transmitted, stored, processed, and exploited. It also allows them to verify how fairly they are treated by algorithms, software, and systems that affect their lives.

Topics

The goal of this special issue is to collect recent advances, innovations, and practices in data and software engineering for building techniques, solutions, and systems in support of data transparency. The topics of interest include, but are not limited to:

- Data transparency requirements
- Data transparency models and enhancement architectures
- Interplay among transparency, privacy and security
- Blockchain-based transparency management
- Data transparency in IoT and cyber physical systems
- Data transparency in social media
- Data transparency in AI algorithms
- Data transparency in big data
- Audit, traceability and data transparency
- Data fairness in software
- Forensic-readiness data engineering and transparency

Expected Contributions

We welcome three types of regular contributions:

- Full research papers reporting mature results (up to 25 pages)
- Experience papers reporting on lessons learned from addressing specific issues within the scope of the call (up to 20 pages)
- Vision and Challenge papers (up to 7 pages)

JDIQ welcomes manuscripts that extend prior published work, provided they contain at least 30% new material, and that the significant new contributions are clearly identified in the introduction.

Submission Format

Submission guidelines with Latex (preferred) or Word templates, including submission site information, are available at: <http://jdiq.acm.org/authors.cfm#subm>. Upon submitting, select the paper type "*SI: Data Transparency*".

Important Dates

N.B. This special issue will open for submissions on October 1, 2020.

Paper submission deadline: October 31, 2020
First notification: January 15, 2021
Revised version due: March 15, 2021
Final notification: May 15, 2021
Final submission (camera-ready): June 15, 2021
Publication date: Fall 2021 (tentative)

For questions and further information, please write to Dr. Barhamgi at mahmoud.barhamgi@univ-lyon1.fr.



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