Call for Papers

The First International Workshop on Data Quality and Transformation in Process Mining

Bozen-Bolzano, Italy, 24 October 2022

The First International Workshop on Data Quality and Transformation in Process Mining (DQT-PM2022) aims to facilitate the exchange of research findings, ideas, and experiences on techniques and practices to data transformation and quality improvement at Stage 0 of a process mining project.

These days, the amount of available data is increased in organisations, so is its perceived value for stakeholders. A broad spectrum of process mining techniques (e.g., process discovery, conformance checking, and performance analysis) exists to derive actionable business insights from the recorded process data. As these process mining techniques rely on historical process data as 'the single source of truth', working with data that is of low and dubious quality poses significant hurdles to successfully translating data into actionable business insights.

It is also well-known that significant time and effort associated with process mining projects is being spent on data preparation tasks. A recent survey within the process mining community (XES) [1] shows that more than 60% of the overall effort is spent on data preparation, where challenges such as complex data structures, incomplete, and inconstant data are being addressed. Current approaches to data preparation (e.g., data transformation, data quality auditing and remedies for repairs) are mostly ad-hoc and manual. Thus, there is a need for systematic and preferably automated approaches to event data transformation that will speed up the production of high-quality process data for decision-making purposes.

WORKSHOP TOPICS

The main topics relevant to the DQT-PM workshop include, but are not limited to:

- Techniques to detect and repair data quality issues in event data
- Automated approaches to data pre-processing for process mining
- Frameworks to detect and quantify the quality of an event log
- Data governance frameworks for event data
- Techniques to solicit subject matter expertise for data quality management
- Data auditing approaches for process mining
- Machine learning and data mining approaches to assess the quality of event data
- Visual Analytics for data preparation in process mining
- Case studies highlighting data preparation challenges and lessons learned
- Methodologies and best practices for data preparation for process mining

SUBMISSION INSTRUCTIONS

Prospective authors are invited to submit papers for presentation in any of the areas listed above. We welcome research papers, case studies, and idea papers. The paper selection will be based upon the relevance of a paper to the main topics as well as upon its quality and potential to generate relevant discussion. Authors are requested to prepare submissions according to the format of the Lecture Notes in Business Information Processing (LNBIP) series by Springer.

Submissions must be in English and must not exceed 12 pages (including figures, bibliography and appendices). Each paper should contain a short abstract, clarifying the relation of the paper with the main topics (preferably using the list of topics above), clearly state the problem being addressed, the goal of the work, the results achieved, and the relation to other work. Papers should be submitted electronically as a self-contained PDF file via the DQT-PM2022 submission system in Easy Chair (track "Data Quality and Transformation in Process Mining"). Submissions must be original contributions that have not been published previously, nor already submitted to other conferences or journals in parallel with this workshop.

PUBLICATION

All workshop papers will be published by Springer as a post-workshop proceedings volume in the series Lecture Notes in Business Information Processing (LNBIP). For each accepted paper, at least one author must register for the workshop and present the paper.

KEY DATES

Abstract Submission: 10 August 2022
Papers Submission: 17 August 2022
Acceptance Notification: 14 September 2022
Pre-Workshop Camera-Ready Papers: 5 October 2022
Workshop: 24 October 2022
Post-Workshop Camera-Ready Papers: 7 November 2022

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