The Second International Workshop on Process Querying (PQ 2017) aims to provide a high quality forum for researchers and practitioners to exchange research findings and ideas on technologies and practices in the area of process querying. Process-related information grows exponentially in organizations via workflows, guided procedures, business transactions, Internet applications, real-time device interactions, and other coordinative applications underpinning commercial operations. Event logs, application databases, process models, and business process repositories capture a wide range of process data, e.g., activity sequences, document exchanges, interactions with customers, resource collaborations, and records on product routing and service delivery. Process querying studies automated methods for managing, e.g., filtering or manipulating, repositories of models of observed and envisioned processes, as well as their relationships, with the goal of converting process-related information into decision making capabilities. Process querying research spans a range of topics from theoretical studies of algorithms and the limits of computability of process querying techniques to practical issues of implementing process querying technologies in software.

Special theme: Ontologies for Process Management

Research combining process models and ontologies is increasingly gaining attention in recent years. One reason for this is that ontologies allow adding semantics to process models, which enables the automated inference of knowledge from business processes. This knowledge can be used to manage business processes at design and execution time. Hence, the goal of the special theme is to promote research on the application of ontologies to generate new or improve existing methods, techniques, tools, and process-aware systems that support the different phases of the business process management life cycle.

WORKSHOP TOPICS

The main topics relevant to the PQ workshop include, but are not limited to:

- Behavioral and structural methods for process querying
- Imperative and declarative process querying methods
- Exact and approximate process querying methods
- Expressiveness of process querying methods
- Decidability and complexity of process querying methods
- Process query languages and notations
- Indexing for fast process querying
- Empirical evaluation and validation of process querying methods
- Label management in process querying
- Information retrieval methods in process querying
- Process querying of big (process) data
- Automatic management of process models, e.g., process model repair
- Automatic management of process model collections
- Event log querying
- Event stream querying
- Process performance querying
- Multi-perspective process querying methods, e.g., querying process resources, data, etc.
- Process querying and rich ontology annotations
- Applications of process querying methods for process compliance, standardization, reuse, etc.
- Experience reports from implementations of process querying tools
- Case studies in process querying

SUBMISSION INSTRUCTIONS

Prospective authors are invited to submit papers for presentation in any of the areas listed above. 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 (http://www.springer.com/computer/lncs?SGWID=0-164-6-791344-0). 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 submission system (https://www.easychair.org/conferences/?conf=pq2017). 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). These proceedings will be made available to all registered participants approximately four months after the workshop, while preliminary proceedings will be distributed during the workshop. For each accepted paper, at least one author must register for the workshop and present the paper.

KEY DATES

- Submission deadline: 26 May 2017
- Notification deadline: 26 June 2017
- Camera-ready papers deadline: 7 July 2017
- Workshop: 11 September 2017

COMMITTEES

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