

Workshop Title:**DATA-DRIVEN PROCESS DISCOVERY AND ANALYSIS (SIMPDA)****Contact Information:** Paolo Ceravolo paolo.ceravolo@unimi.it**Chairs:**

- Paolo Ceravolo, Università degli Studi di Milano, Italy (<https://orcid.org/0000-0002-4519-0173>)
- Maria Teresa Gomez Lopez, University of Seville, Spain (<https://orcid.org/0000-0002-1320-6644>)
- Maurice van Keulen, University of Twente, The Netherlands (<https://orcid.org/0000-0003-2436-1372>)

Proponents:

This workshop was born by the initiative of the IFIP WG 2.6 (see section on the historical information).

Potential Program Committee Members

The workshop will invite as PC members researchers and practitioners participating in previous editions of the symposium as pc members, authors or keynote speakers. It is possible to retrieve a tentative list from <http://simpda2018.di.unimi.it> or <http://simpda2017.di.unimi.it>.

Workshop Format:

The event will cover one full day. In accordance with our historical tradition of proposing SIMPDA as a symposium, we propose an innovative format for this workshop:

- The number of sessions depends on the number of submissions but, considering the previous editions, we envisage to have four sessions, with 4-5 related papers assigned to each session. A special session (with a specific review process) will be dedicated to discussing the research plan from Ph.D. students.
- The bulk of the time during each session will be dedicated to open conversations about all of the papers in a given session, along with any linkages to the papers and discussions within an earlier session. Visual feedbacks with post-its on a poster will be supported to foster the interaction between participants.
- The closing session (30 minutes), will include a panel about open challenges during which every participant will be asked to assemble their thoughts/project ideas/goals/etc... that they got out of the workshop.

Technical Description of the Workshop:

The workshop provides a unique opportunity to present new approaches and research results to researchers and practitioners working in business process data modeling, representation and privacy-aware analysis.

All papers must be original contributions, not previously published or under review for publication elsewhere. All contributions must be written in English.

A special session will be dedicated to discussing the research plan from Ph.D. students.

Topics

• Topics of interest for submission include, but are not limited to:

- Business process modeling languages, notations, and methods
- Lightweight process model
- Data-aware and data-centric approaches
- Big Data process representation and management
- Process mining with Big Data
- Variability and configuration of process models
- Process simulation and static analyses
- Process data query languages
- Process data mining
- Process data visualization and reporting
- Privacy-aware process data mining
- Process metadata and semantic reasoning
- Process patterns and standards
- Foundations of business process models
- Resource management in business process execution
- Process tracing and monitoring
- Process change management and evolution
- Business process lifecycle
- Case studies and experience
- Social process discovery

- Crowdsourced process definition and discovery

Historical Information on Previous Editions

SIMPDA was proposed in 2011 and 2012 by IFIP WG 2.6 and 2.12/12.4 as the International Symposium on Data-Driven Process Discovery and Analysis. The editions from 2013 to 2018 was promoted by the IFIP WG 2.6.

The symposium had around 20-30 attendees per edition. It featured a number of keynotes illustrating new approaches, shorter presentations on recent research, and a competitive Ph.D. seminar, together with selected research and industrial demonstrations. The authors of the accepted papers have been invited to submit extended articles to a post-symposium proceedings volume published in the Springer LNBIP series.

