

Workshop on Methodologies for Robustness Injection into Business Processes

<http://www.latece.uqam.ca/mri-bp/>

In conjunction with the 17th IEEE International EDOC Conference (EDOC 2013), "The Enterprise Computing Conference", 9–13 September 2013, Vancouver, Canada. <http://edocconference.org/>

Call for Papers

About the Workshop

Within the context of business process management, Business Activity Monitoring (BAM), Business Operations Management (BOM), Business Process Intelligence (BPI), and Complex Event Processing (CEP) are increasingly becoming an essential part of organizations' arsenals for verifying that their operations are happening within defined boundaries, responding to deviations, and keeping up with a dynamic, open, and competitive business environment in which business processes are no longer monolithic.

This modern nature of business processes brings about challenges in that transactions are distributed, take different paths, involve the coordination of multiple people, machines, and services, and require data/business artifacts to construct a business context from different tiers. While there may be a single—or a few—happy path(s)/process(es), a robust e-business application needs to accommodate various failure points arising from people's unavailability, service failures, business rule changes, human mistakes, or simply changes of plan.

One may leverage business process specification languages that offer a structured mechanism for exception handling. An effort then has to be spent during process modeling for these exceptional situations to be enumerated and their management processes to be specified. Naturally, these what-if scenarios usually mobilize the bulk of the business analysis and development effort. Further, business analysts and developers have little guidance in designing and implementing those processes. Even if analysts can put safeguards for these scenarios in place, some exceptions cannot be predicted until they happen, and their consequences may be severe. Mechanisms to roll back or compensate for the exceptions' effects need to be put in place.

The objective of this workshop is to bring together researchers and practitioners interested in business process robustness, in general, and in methodologies for injecting robustness mechanisms and artifacts and mechanisms (exception handling activities, service level agreements, compensation processes, etc.) into process models, through assistive or automated techniques. The workshop seeks contributions that include, i) reasoning on process semantics, ii) automated or assisted discovery of process attributes (performance, organizational), iii) proactive BAM models, and iv) process repair and extension, all for the purpose of enhancing the resilience of a process model or of the modeling process.

Topics

The areas for contribution include, but are not limited to, the following:

- Resilient processes / Process flexibility
- Reasoning and semantics of business processes
- Ontological frameworks for contingency inference
- Assistive techniques for robust process modeling
- Compensation and exception handling mechanisms
- Process enhancement through repair and extension
- Business transaction management
- Improving scope of BAM techniques
- Business process analytics
- Correlation of events within process data
- Monitoring and exception handling in data-centric business processes
- Process recovery mechanisms

Submission Guidelines

We solicit two types of papers:

- Short papers (5 pages) discussing controversial issues in the field or describe interesting or thought-provoking ideas that are not yet fully developed; and
- Full papers (10 pages) describing more mature results than short papers.

All submissions must be made in PDF format and comply with the IEEE Computer Society Conference Proceedings Format Guidelines (<http://www.computer.org/portal/web/cscps/formatting>) using the EasyChair website (<https://www.easychair.org/account/signin.cgi?conf=mrribp2013>). All submissions should be in English. All papers must not have been previously published or submitted elsewhere.

Publication of Papers

Accepted workshop papers will be published along with EDOC proceedings. The proceedings will be published by the IEEE Computer Society Press and be made accessible through IEEE Xplore and the IEEE Computer Society Digital Library.

Best Paper Award

The best paper in Service Science will be awarded to the most outstanding high-quality student paper (i.e. where the lead contributor is a student) from the workshops. This award is sponsored by IBM research.

Important Dates

Paper Submission: April 22nd, 2013

Paper Notification: May 31st, 2013

Camera Ready Copy: June 21st, 2013

Workshop Date: September 9th or 10th, 2013 (TBD)

Organizing Committee

- Yasmine Charif, Xerox Innovation Group, USA
- Hafedh Mili, University of Quebec at Montreal, Canada
- Emily (Rong) Liu, IBM Research, USA

Program Committee

- Wil M.P. van der Aalst, Technische Universiteit Eindhoven, The Netherlands
- Daniel Amyot, University of Ottawa, Canada
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- Anis Boubaker, University of Quebec at Montreal, Canada