

Simplifying and Matching Business Process Models

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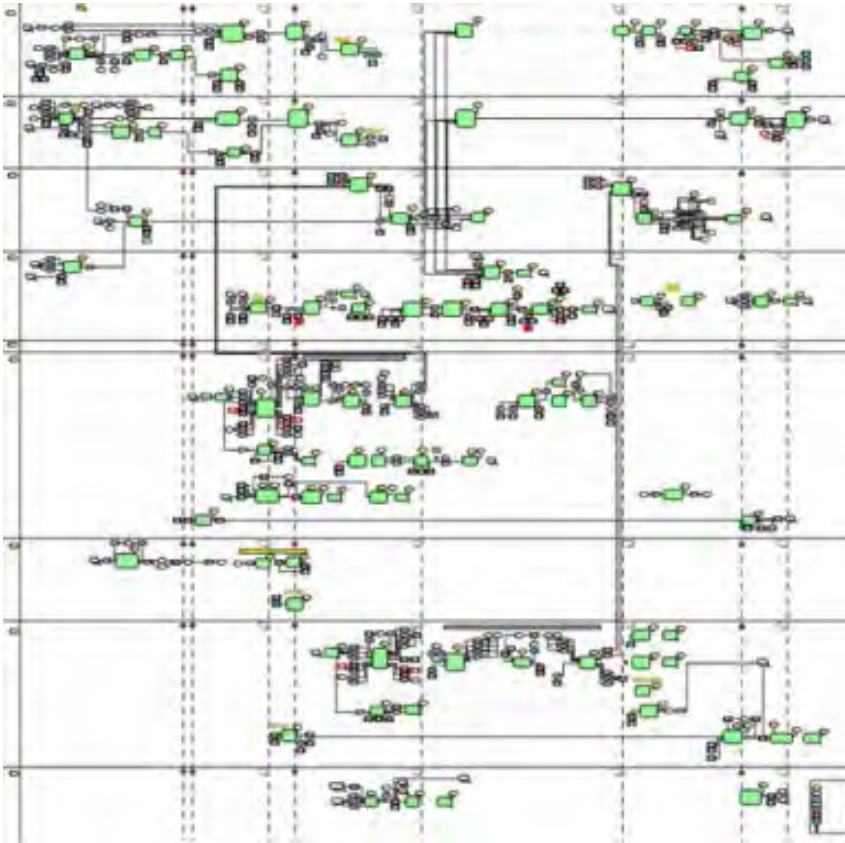


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1st Summit on Gender Equality in Computing (GEC 2019)

Process Repositories

Problem Statement

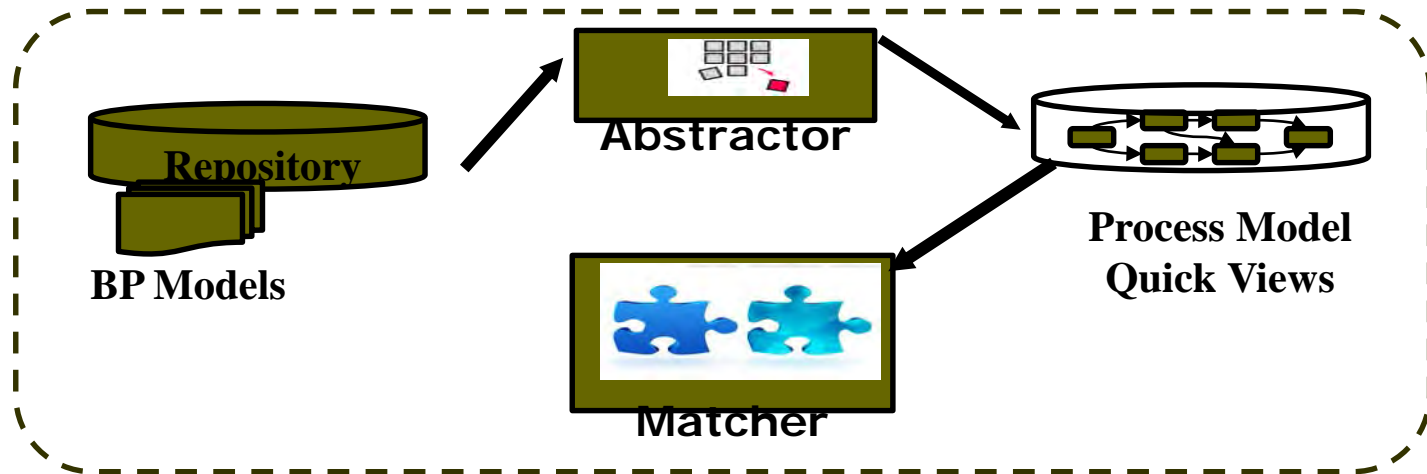


Business Process Model (BPM)

Matching

- BPM Matching identifies similarities between process models regarding their
 - syntax,
 - semantics and
 - structure
- Identifying similarities promotes BPM reusability, and usability
- Main issues in existing techniques:
 - **Low Performance** due to large process model matching space
 - **Limited Similarity metrics**, leading to non-accurate results

Suggested Framework and Methods



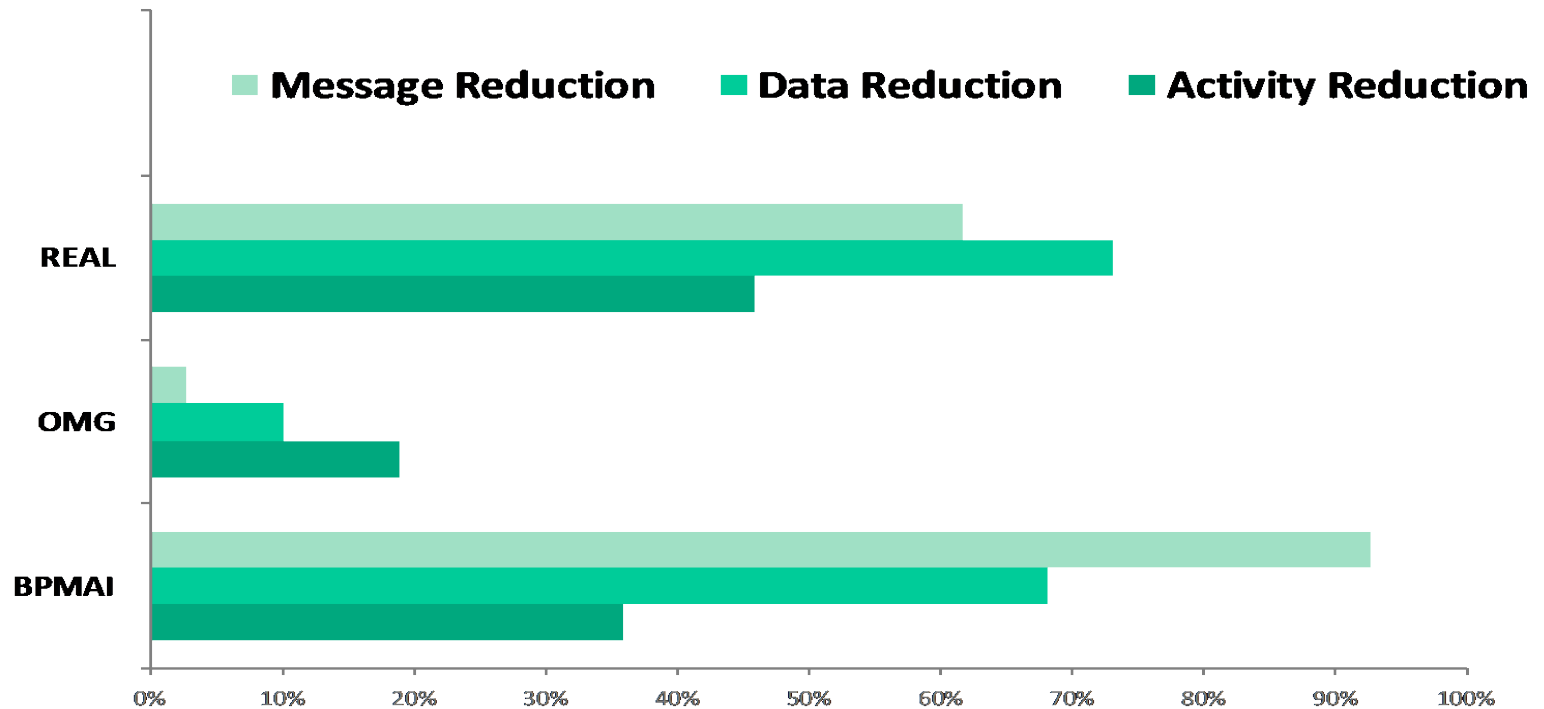
□ Abstraction method

- Extracts simplified PMs- a rule-based approach
- Contribution: reduce the process models' size → reduce the matching space

□ Matching method

- BP model-matching algorithm
- Contribution: reduce the matching space and achieve advanced quality

Results



REAL: Models from **Real-Life**

OMG: Models from **Object Management Group**

BPMAI: Models from **BPM Academic Initiative**

**Thank you
for your attention**



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