Simplifying and Matching Business Process Models

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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 \(\rightarrow\) 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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