Intentional Process Model Discovery from Logs

Context: How to discover users' intentions and strategies?

Process Mining Approaches:
- Discovery of task-oriented model
- Rigid, Non-representative of humans' rationale

Traces Analysis
- Users' activities represent the real process.

Intentional Model
- Map process modal allows for intentions/strategies of Information System users

Machine Learning
- Discovery of the rules among logs: Strategies

Research question: Can we discover users' intentions and strategies during process enactment?

Hypothesis: It is possible to find discover users' intentions and strategies during process enactment out of logs.

Lifecycle of our research

Map discovery:
- Pseudo-Map discovery
- Estimated Strategies
- Pseudo-Map

Intention Mining

Strategy mining
- Supervised Learning
- Unsupervised Learning
- HMMs

Traces base
- Map
- Stakeholders
- Logs
- Clustering

Pseudo-Map discovery:
- Deep Miner Algorithm
- Map Miner Algorithm

Estimated Strategies
- Pseudo-Map

Discovered Map Process Model

Machine Learning Techniques

International Conferences
- "International Conferences"

National Conference