

Welcome to DeHMiMoP 2018!



In this workshop, we are interested in the application and challenges of

decision-based,

■ rule-based, and

hybrid

modelling in all phases of the BPM lifecycle:

identification,

discovery,

analysis,

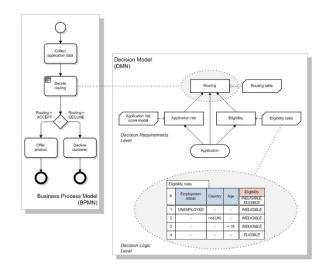
redesign,

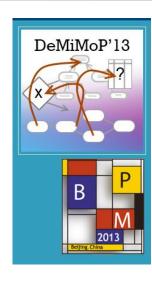
- implementation, and monitoring.

Est. 2013



- Investigation on Knowledgeintensive Processes (KiPs)
 - Variability and flexibility
 - Involving decision processes & process decisions
 - What are the rules underneath?



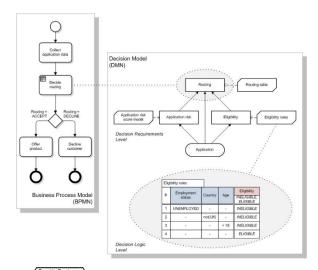


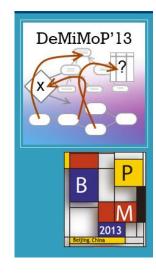
Est. 2013

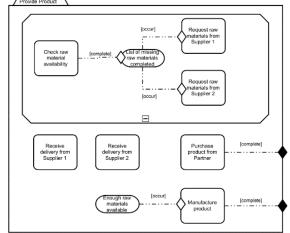


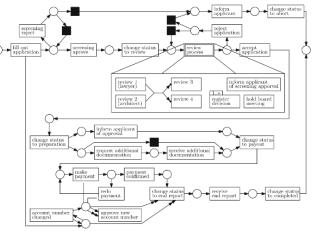
- Investigation on Knowledgeintensive Processes (KiPs)
 - Variability and flexibility
 - Involving decision processes & process decisions
 - What are the rules underneath?

- From 2017 the declarative and hybrid approaches were added
 - and an "H" in the abbreviation too



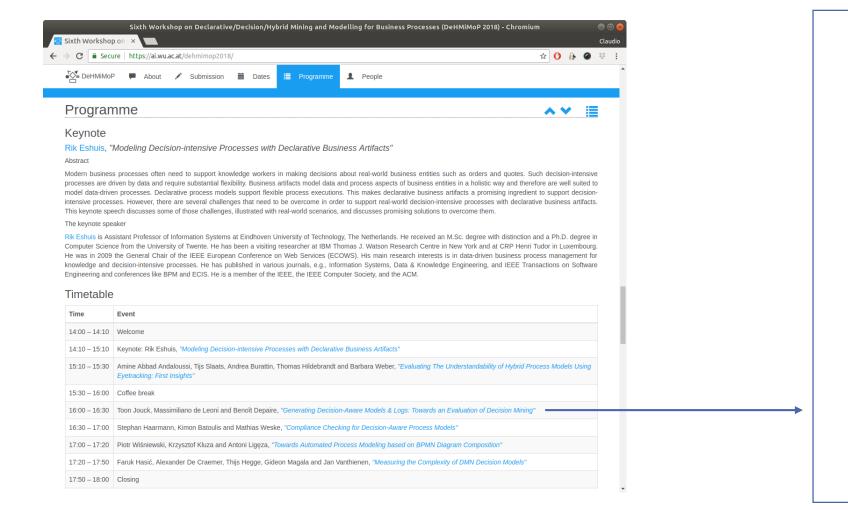






Pre-prints available on-line





Generating Decision-Aware Models & Logs: Towards an Evaluation of Decision Mining

Toon Jouck¹, Massimiliano de Leoni², and Benoît Depaire¹

¹ UHasselt - Hasselt University, Hasselt, Belgium ² Eindhoven University of Technology, Eindhoven, The Netherlands toon, jouck@uhasselt.bem.d.leon@tue.nlbenpit.denjre@uhasselt.be

Abstract. During the last decade several decision mining techniques have been developed to discover the decision perspective of a process from an event log. The increasing number of decision mining techniques raises the importance of evaluating the quality of the discovered decision models and/or decision logic. Currently, the evaluation are limited because of the small amount of available event logs with decision information. To alleviate this limitation, this paper introduces the 'DataExtend' technique that allows to evaluate and compare decision-mining techniques with each other, using a sufficient number of event logs and process models to generate evaluation results that are statistically significant. This paper also reports on an initial evaluation using 'DataExtend' that involves two techniques to discover decisions, whose results illustrate that the approach can serve the purpose.

Keywords: decision mining; evaluation, log generation

1 Introduction

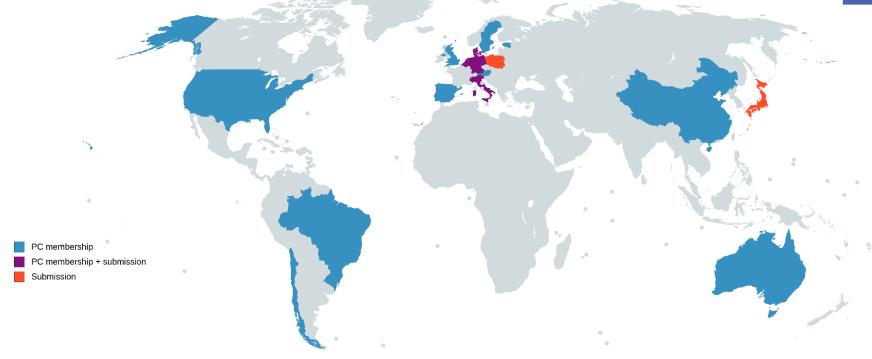
Automated process discovery from event logs has mainly focused on the controlflow perspective of processes. The control-flow perspective can be considered as
the process backbone; however, many other perspective should also be considered
set of the control of the control of the control of the control
(a.k.a. the data or case perspective) focuses on how the routing of processinstance executions is affected by the characteristics of the specific process
stance, such as the amount requested for a lona, and by the outcomes of previous
execution steps, e.g. the verification result. The representation of this decision
perspective on a process in an integrated model or as separate tables is nowadays
gaining momentum due to the introduction of the Decision Model and Notation
(DMN) standard [I]. Decision mining focuses on discovering the decision perspective of a process from an event log. Some techniques (e.g. [23]) augment the
routing decisions of a control-flow model with the decision logic induced from
the data attributes in the event log. Other techniques (e.g. [435]) alweed focused
on discovering a decision model in the form of a Decision Requirements Diagram
(DRD).

DeHMiMoP 2018



Submissions	8
Accepted short papers	2
Accepted full papers	3

PC members 32
Reviews 23
Reviews per paper ~3



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The programme



Time	Event	Session Chair
14:00 – 14:10	Welcome	C. Di Ciccio
14:10 – 15:10	Keynote: Rik Eshuis, "Modeling Decision-intensive Processes with Declarative Business Artifacts"	
15:10 – 15:30	Amine Abbad Andaloussi, Tijs Slaats, Andrea Burattin, Thomas Hildebrandt and Barbara Weber, "Evaluating The Understandability of Hybrid Process Models Using Eyetracking: First Insights"	S. Debois
15:30 – 16:00	Break	
16:00 – 16:30	Toon Jouck, Massimiliano de Leoni and Benoît Depaire, "Generating Decision-Aware Models & Logs: Towards an Evaluation of Decision Mining"	S. Debois
16:30 – 17:00	Stephan Haarmann, Kimon Batoulis and Mathias Weske, "Compliance Checking for Decision-Aware Process Models"	
17:00 – 17:20	Piotr Wiśniewski, Krzysztof Kluza and Antoni Ligęza, "Towards Automated Process Modeling based on BPMN Diagram Composition"	
17:20 – 17:50	Faruk Hasić, Alexander De Craemer, Thijs Hegge, Gideon Magala and Jan Vanthienen, "Measuring the Complexity of DMN Decision Models"	
17:50 – 18:00	Closing	

