

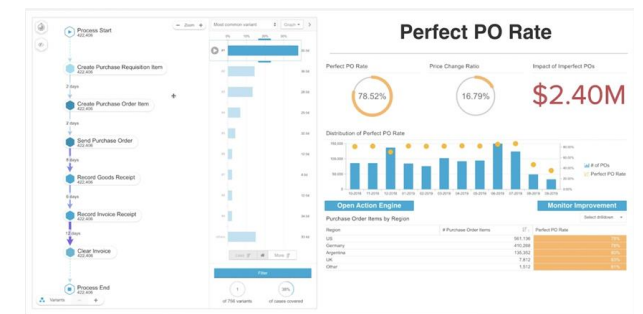
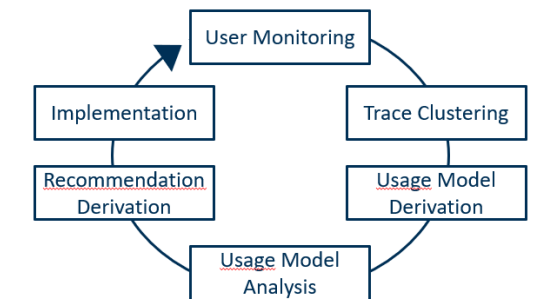
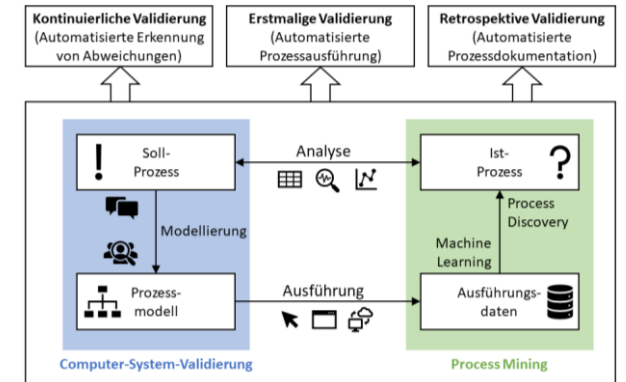
Junior Professorship for Management Analytics

Presentation for WIM Students Fall Term 2021



About the Junior Professorship

- Research Area: Applications of Data Analytics and Artificial Intelligence in Business Process Management
- Team
 - Jun.Prof. Dr. Jana-Rebecca Rehse
 - Two doctoral students (starting in October and January)
 - Two student assistants (with job openings!)
- Concrete Research Fields:
 - (Robotic) Process Automation in ERP Systems
 - Process Mining for User Behavior Analytics
 - Process Mining for Procurement



Wanted: Student Assistant for Data Analysis

- Your tasks:
 - Design and implementation of analysis techniques using process mining and machine learning
 - Supporting research projects
 - Scientific literature reviews
- Your profile:
 - Student at the University of Mannheim
 - Independent, reliable, motivated, and willing to learn
 - Ability to work in a team
 - Interest in process analytics, process mining and machine learning
 - Experience in software development (especially Python) and process mining (e.g. ProM, Celonis) is an advantage

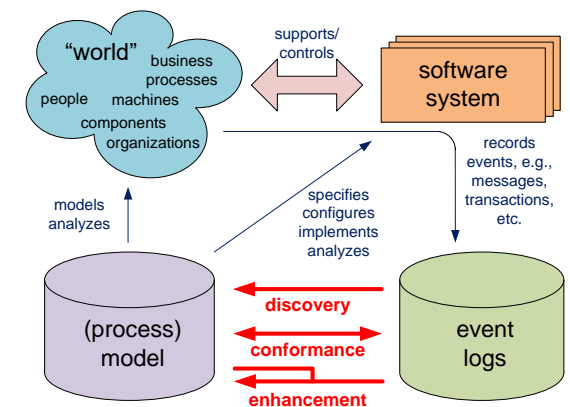
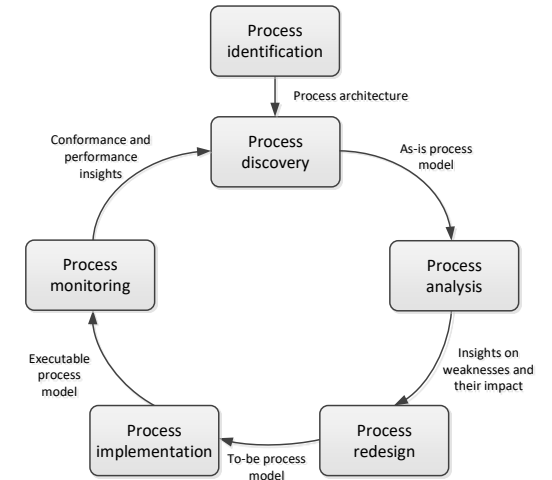
If you are interested, send your application documents to rehse@uni-mannheim.de before September 15th.



IS 515: Process Management & Analytics

Waiting list is still open

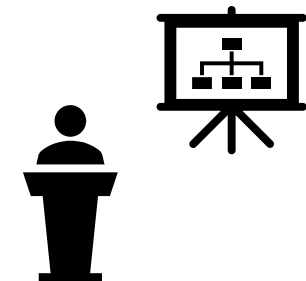
- Formerly IS 514: Process Mining & Analytics (with additional content from IS 510: Process Management)
- Goal: Learn to (re-)design, run, and optimize business processes using analytical methods
- Contents:
 - (Semi-)Formal methods for process modeling (BPMN, Petri Nets)
 - Methods for analyzing properties of process models and events logs
 - Process mining: process discovery, conformance checking
 - Data-centered process enhancement
 - Machine learning for process support and automation
- Inverted Classroom Setting
 - Lecture videos will be posted every week
 - In-person exercise sessions (either online or in the classroom)
 - Case study on real-world data



IS 752: Master Seminar on Management Analytics

Still accepting applications TODAY

- Goal: Prepare you for starting your master thesis
 - Apply basic research methods from the IS discipline
 - Independently and systematically explore a research topic
 - Structure and write an academic paper
 - Present your results in front of an audience
- Current (Exemplary) Topics
 - Data collection for robotic process automation
 - Analyzing user behavior in ERP systems
 - Metrics for software usability
- Organization:
 - Application deadline extended to September 6th (today, 23:59)
 - Notifications will be sent out on Wednesday, September 8th
 - Kick-Off Meeting on Monday, September 13th



Master Theses

- Prerequisites:
 - Relevant Seminar (IS 752 is recommended)
 - Some experience in process mining & analytics
- Choice of Topic
 - Topics must be of interest for you and for me
 - If you're interested in writing a thesis, you should propose your own topic
 - If I have topics available, I'll post them on my website
 - Cooperations with Industry are possible and encouraged
- Currently Available Topics
 - Activity Detection on Low-Level UI Logs
 - Predicting User Behavior for Adaptable UIs
 - Process Mining meets Big Data: Approaches for handling Large Event Logs

