Instructions for Case Studies
Lecture: Business Process Analysis and Mining

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Abstract. These are the instructions and topics for the “Case Studies”. Each student must handle one case study.

1 Case Studies Guideliness

The case studies are short presentations that are held by students on April 17. In addition to that, students will be asked to produce a five-page summary of the assigned paper. This summary will be delivered by April 30 via email. The intent of the case studies is to complement the contents of the lectures. The list of papers can be found below.

Housekeeping:

- Each student must handle one case study. If a student does NOT present a case study, he/she will not receive a grade (independently of whether he/she delivers the summary).
- Each case study must be prepared by one student; groups are NOT allowed.
- Case study assignment mode: first come, first serve. Please select 4 (four!) topics of descending preference.
- The presentation happens during the aforementioned course slots.
- The presentation should be at MOST 10 (TEN!) min long.
- The presentation includes a small set of slides.
- The summary must be at most five-page long and should answer the following questions: what is the problem tackled by the paper? What is the approach followed in the paper? How is this approach evaluated? What is the relationship to the course?
2 Case Studies Topics

Each line below corresponds to a paper. Please send me a list with FOUR topics/papers you would like to present. I will try to accommodate all personal preferences. The topic assignment will happen in a “first come, first serve” strategy, though.

1. Fully-automatic translation of Petri nets into BPEL
2. Petri Net transformations for business processes
3. Lessons learnt Societe Generale
4. Lessons learnt from a bank data breach
5. Understanding the Sony PSN privacy breach
6. Inside the JetBlue’s privacy breach
7. Three good reasons for using a Petri-net-based workflow management system
8. Process reengineering work: Don’t automate, obliterate
9. Information technology and business process redesign
10. What makes a good process model
11. Security for Workflows
13. Conformance Checking of RBAC Policies in Process-Aware Information Systems
14. Potential pitfalls in process modeling – Part A
15. Business Process Mining: An Industrial Application
16. Anomaly Detection Using Process Mining
17. Business Process Mining for Internal Fraud Risk Reduction-Results of a Case Study
18. Time-Based Trace Clustering for Evolution-Aware Security Audits
19. On the exploitation of process mining for security audits: the process discovery case
20. Potential pitfalls in process modeling – Part B
21. SecSy: Synthesizing Smart Process Event Logs
25. **Root-Cause Analysis of Design-Time Compliance Violations on the Basis of Property Patterns.**

If more students than topics, then additional topics will be added.