

Business Process Management

SS 2021

Exercise 7

Formalities for submitting your solution:

- Please submit your solution in OLAT
- The solution is due on **30.06.21 at 23:59 (UTC+2)**
- Please provide one single PDF file per group
- Please include the names of all group members into your solution
- You can reach up to 10 points in this exercise sheet

Task 1 (7 points)

In the lecture, so-called weakness patterns were introduced. These are patterns in process models which constitute a weakness, e.g., a document is printed and then immediately scanned again. The patterns can be classified into seven weakness categories.

Choose 2 weakness categories. Then, draw a small EPC model containing 2 errors (of the 2 respective weakness categories). Briefly describe the errors and provide the weakness category.

(The EPC model should make some sense, i.e., the domain of the company should be clear)

For each error, provide...

- a CTL query
- a GMQL query
- a DMQL query

...that can detect the respective error. For the CTL query, you will have to transform your model into a transition system.

(To clarify, in total 6 queries and 1 transition system)

Task 2 (3 points)

The master's degree is (amongst other goals) aimed to prepare you for research. In this context, it is essential that you get an overview of "what research is", or "what and how can I research".

One of the main conferences for BPM research is the so-called International Conference on Business Process Management.

Take a look at the accepted papers from 2020¹.

Choose 3 papers from the **research track**.

- For each paper write a short summary (min: 100 words, max: 150 words) of what the content of the paper is
(Do **not** just copy the abstract or parts of the paper, plagiarism will automatically lead to zero points!)
- Additionally, and if applicable please briefly discuss
 - the research question of the paper
 - the research paradigm/methodology of the work
 - the evaluation methods of the work
 - whether you see any limitations that are not mentioned in the paper

¹ <https://congreso.us.es/bpm2020/program/accepted/>