

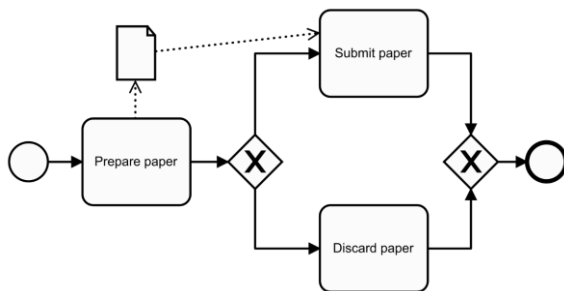


Student Job/HiWi: Transformation of BPMN models into a pre-defined JSON format

Task description:

Modern deep learning techniques usually require a vast amount of training data. However, they are gaining more and more attention in various domains. In Business Process Management, for instance, there are several applications of artificial neural networks (ANNs). In order to support a particular research project a huge set of business process models is required. Such models can be generated automatically, i.e. an existing tool is able to generate models using the modeling language BPMN 2.0. However, the corresponding export format cannot be used directly as an input for ANNs.

Your task is to extend the generation tool in that way that it is able to transform the BPMN 2.0 models into a predefined JSON format (cf. figure below) in order to bridge the gap between the model generation and the ANN techniques.



```
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Expected prior knowledge:

Advanced programming skills (Java), Advanced Information Systems (INF 328) (recommended but not mandatory)

Start:

immediate

Duration:

1+ month(s)

Contact person(s):

- Lars Ackermann, Dr. (lars.ackermann@uni-bayreuth.de)