

## Text 2 BPMN2.0 Process Model SOA 2023

- best SOA in the BPM community to what I could find (published 2011): „Process Model Generation from Natural Language Text“ (Input: sequential simple text; semantical+ syntactical analysis; output: BPMN model)

[https://link.springer.com/chapter/10.1007/978-3-642-21640-4\\_36](https://link.springer.com/chapter/10.1007/978-3-642-21640-4_36)

- ◆ based on this master thesis: <https://frapu.de/pdf/friedrich2010.pdf>
- ◆ corresponding implementation code (but in Java):  
<https://github.com/FabianFriedrich/Text2Process>

--> 12 years old --> there are better NLP techniques now! but good basis/benchmark and great overview of aspects and challenges (especially in the master thesis)

--> see limitations (only for simple text quite close to process structure) --> applicable for our use case?

- Natural Language in Business Process Models: Theoretical Foundations, Techniques, and Applications, LNBIP, vol.168. Springer, Berlin (2013)
- Older overview article (published 2016): „Mining Process Models from Natural Language Text: A State-of-the-Art Analysis“  
[https://www.researchgate.net/publication/298020400\\_Mining\\_Process\\_Models\\_from\\_Natural\\_Language\\_Text\\_A\\_State-of-the-Art\\_Analysis](https://www.researchgate.net/publication/298020400_Mining_Process_Models_from_Natural_Language_Text_A_State-of-the-Art_Analysis)
- A bit more recent overview article (published 2018) with own approach (own approach not very sophisticated - no evaluation metrics, middle step of table not really necessary to discuss): „A Concept for Generating Business Process Models from Natural Language Description“ [https://link.springer.com/chapter/10.1007/978-3-319-99365-2\\_8](https://link.springer.com/chapter/10.1007/978-3-319-99365-2_8)
- Extracting Declarative Process Models from Natural Language (2019 CAISE)
- Empirical Analysis of Sentence Templates and Ambiguity Issues for Bus
- work of Dr. Karolin Winter
- general CAISE conference NLP papers