



## Supplement of

## GC Insights: Breaking the silos – leveraging natural language processing (NLP) to encourage interdisciplinary interaction at the European Geosciences Union (EGU)

Jan Sodoge et al.

Correspondence to: Jan Sodoge (jan.sodoge@ufz.de)

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Fig. S1: Research approach which consists of 5 steps, including: (1) collecting abstracts from EGU, (2) computing similarities between abstracts, (3) visualizing the abstracts in a 2-dimensional space, (4) running a simulation to estimate the hypothesized filter effect, and (5) comparing the coherence of divisions created through clustering to the existing division structures.

Fir	nd your abstract at #EGU24			
н	tello there,			
F	eeling FOMO (fear of missing out) about missing out on relevant presentations at EGU? Do not worry, we have got your back. Our web app simplifies the hunt for conference contributions similar to yours or any other.			
н	Here is how it works:			
1.	. Start by typing and selecting keywords included the title of your own abstract at EGU.			
2.	2. Instantly, you will get a table of abstracts closely matching your selection.			
3.	. You will see a similarity score in the left column of the table, with the most similar abstracts sorted at the top.			
	We calculate similarity using advanced natural language processing techniques. In simple terms, we create digital fingerprints of each abstract based on its content and compare them to your selected one. The underlying technique is called text embeddings. If you are curious you can read more about it item and here.			
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Fig. S2: Screenshot of a web application for EGU GA participants to explore relevant abstracts. Participants can search for a particular submission and receive a list of the most similar abstracts. Additionally, an interactive map can be displayed similar to Fig. 1A.