

LDA2Net: Digging under the surface of COVID-19 topics in literature

Topic 29 companion sheet

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This file contains the following supplementary information for Topic 29 of the manuscript “*LDA2Net*: Digging under the surface of COVID-19 topics in scientific literature”:

- Human label and automatic n-gram label proposals (Table 1)
- Summary measures (Table 2)
- Network of top 25 bigrams (Figure 1)
- Wordclouds of top 25 words by node relevance measure (Figure 2)
- Wordclouds of top 25 bigrams by edge relevance measure (Figure 3)
- Filtered (0.99 percentile) topic network (Figure 4)

Table 1: Human and automatic label proposals. Automatic label candidate for largest word community of the topic. In parenthesis: absolute frequency of the walk out of a sample of size 1000.

Human label	2-gram label	3-gram label	4-gram label
NA	research->limitations (25%)	research->limitations->findings (11.9%)	research->limitations->development->process (3.7%)

Here follows the set of topic-specific measures that have been used to classify the topic and to analyse its structural properties (see manuscript for details):

Table 2: Summary measures

	JSD	Mean propensity	Variance propensity	Modularity	Barrat Clustering Coeff.
value	0.674332	0.008504	0.000247	0.059077	0.546687
rank	68	74	44	72	27

Based on the aforementioned measures, Topic 29 has been classified as a CROSS-CUTTING topic.

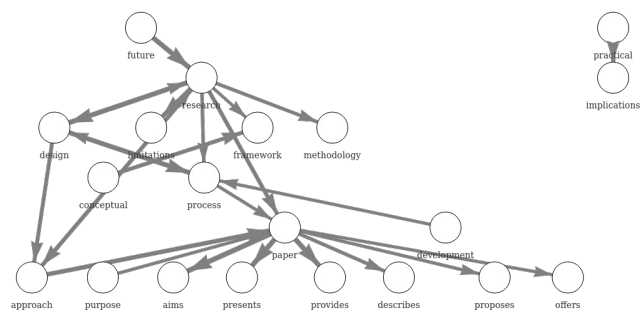


Figure 1: Network of top 25 bigrams (i.e., edges) by weight.

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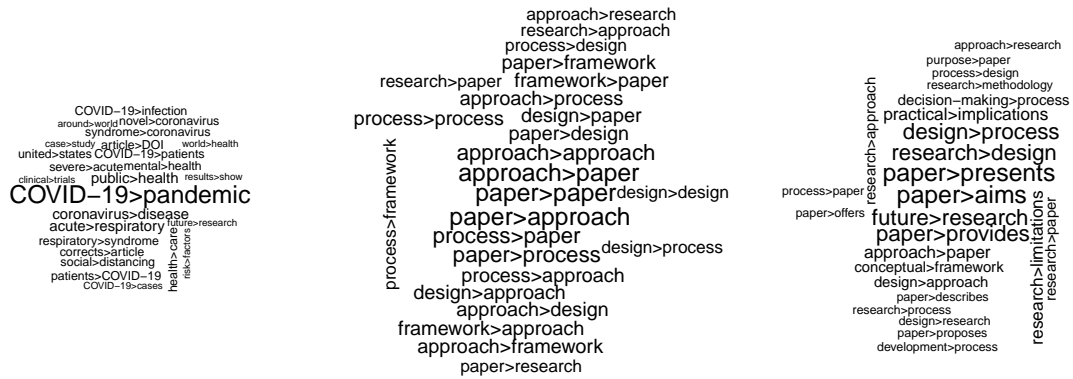


Figure 3: Top 25 bigrams (i.e., edges) by measure.

