

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

Topic 95 companion sheet

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This file contains the following supplementary information for Topic 95 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
pandemic impact	current->pandemic (26.7%)	current->pandemic->caused (2.3%)	current->pandemic->caused->coronavirus (1.5%)

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	0.911291	0.008399	0.000117	0.000000	0.581042
rank	118	68	10	21	67

Based on the aforementioned measures, Topic 95 has been classified as a CROSS-CUTTING topic.

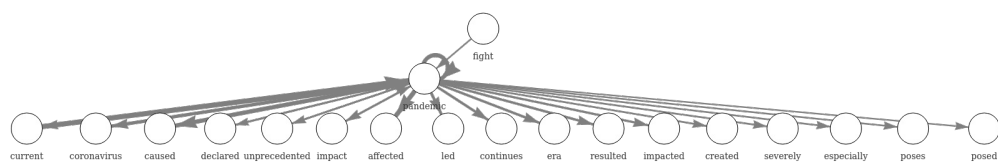
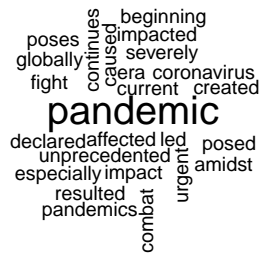


Figure 1: Network of top 25 bigrams (i.e., edges) by weight.

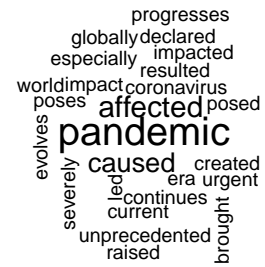
LDA probability



Degree



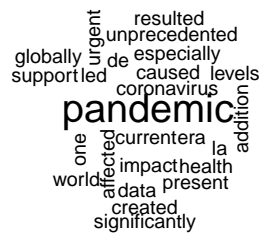
In-degree



Out-degree



Betweenness



PageRank



Figure 2: Top 25 unigrams (i.e., nodes) by measure.

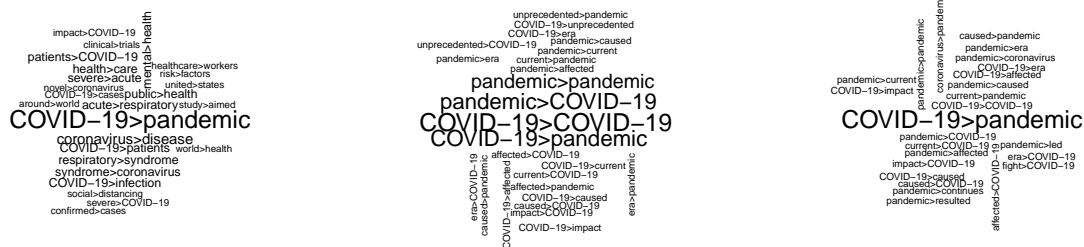


Figure 3: Top 25 bigrams (i.e., edges) by measure.

