

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

Topic 3 companion sheet

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This file contains the following supplementary information for Topic 3 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
statistical analysis (studies)	analysis->used (10.6%)	data->analysis->used (5.1%)	data->analysis->used->analyzed (1.2%)

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	0.751242	0.008042	0.000188	0.319357	0.622856
rank	95	52	27	117	108

Based on the aforementioned measures, Topic 3 has been classified as a CROSS-CUTTING topic.



LDA probability



Degree



In-degree



Out-degree



Betweenness



PageRank

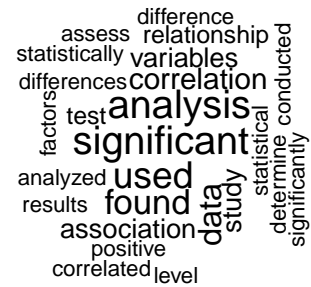


Figure 2: Top 25 unigrams (i.e., nodes) by measure.

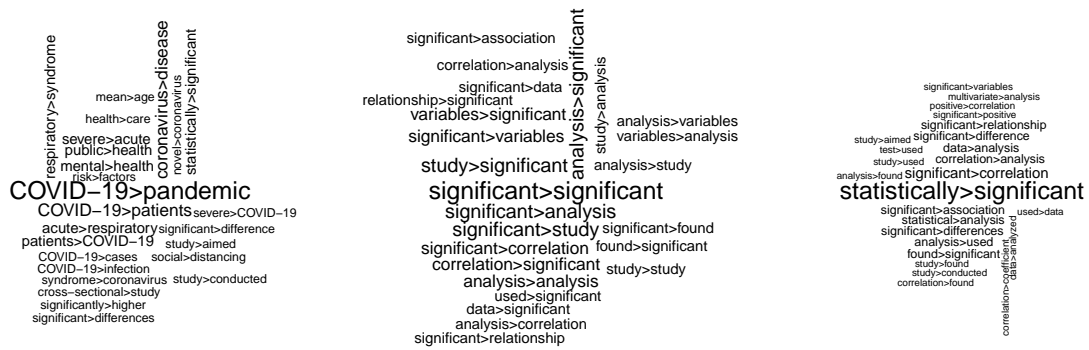


Figure 3: Top 25 bigrams (i.e., edges) by measure.

