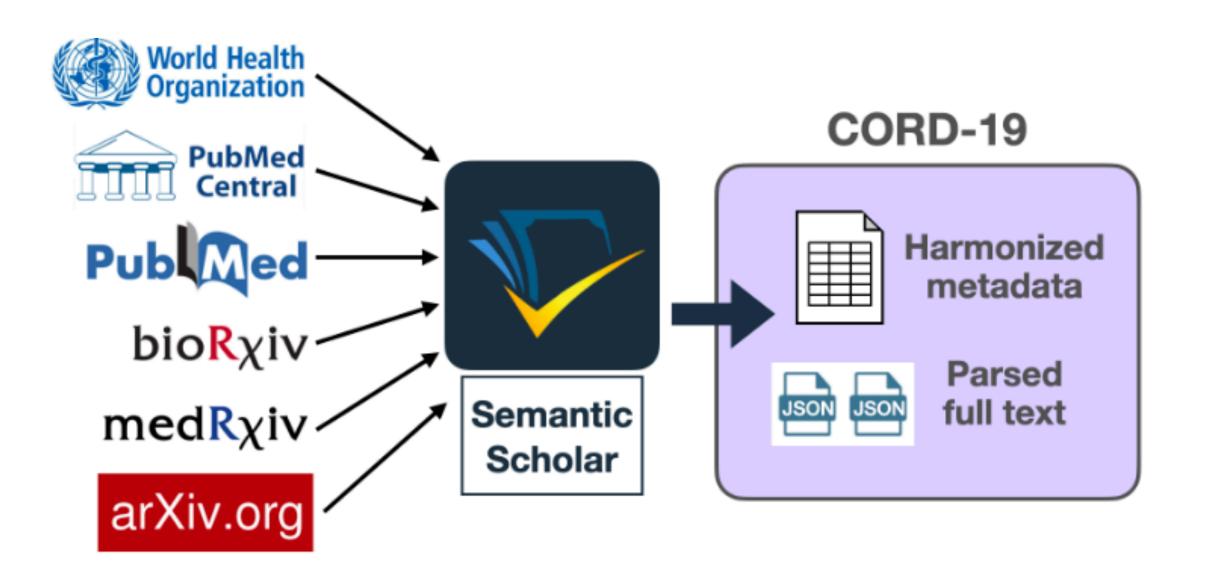
Scientific Research Visualization: A Case Study on Covid-19 Literature

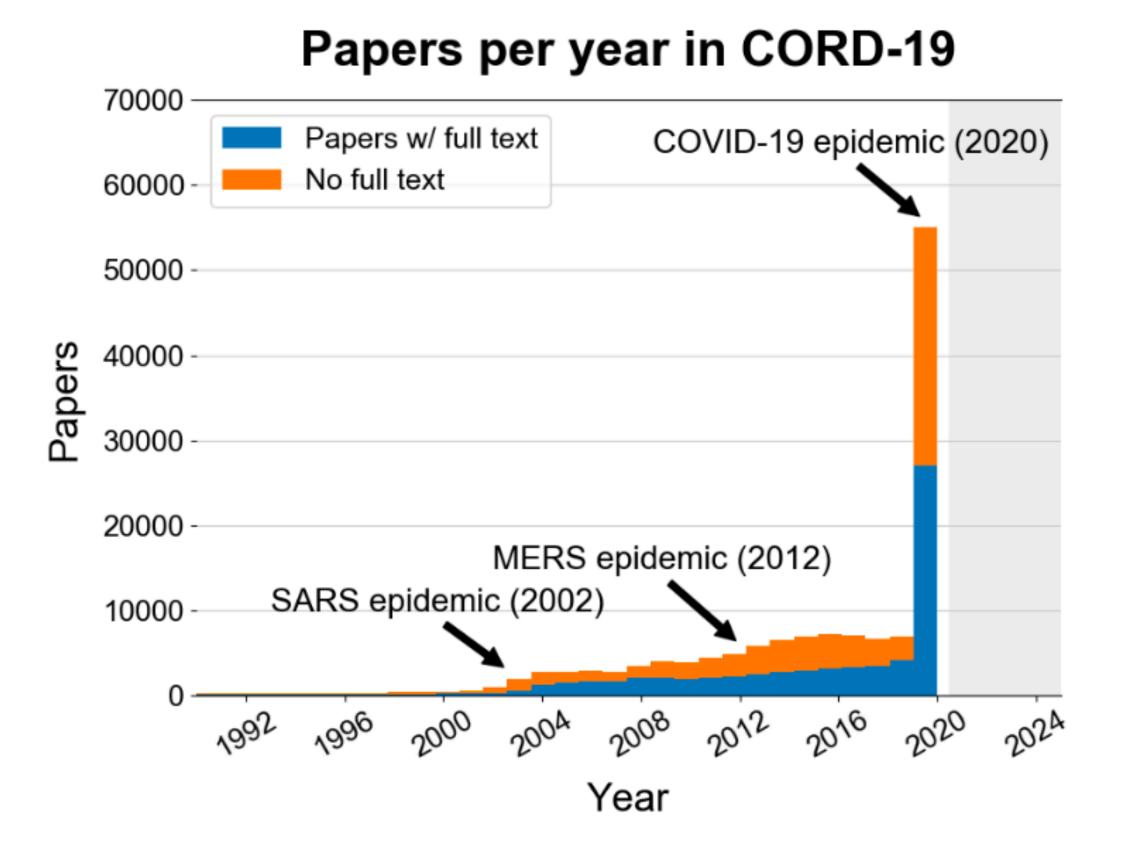
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Mission Tracking the evolution of the scientific research along the time using a visualization platform

1. Introduction

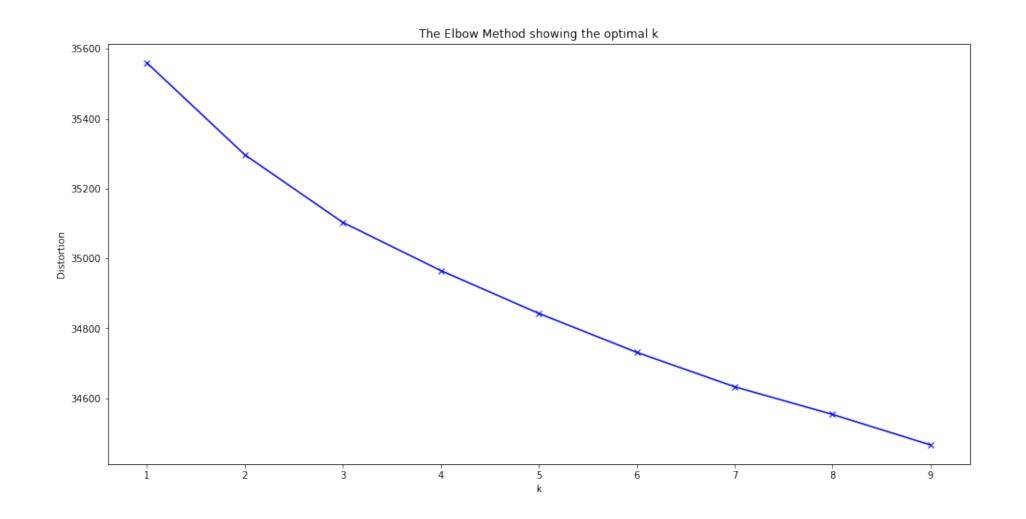




2. Dataset CORD-19: COVID-19 Open Research Dataset

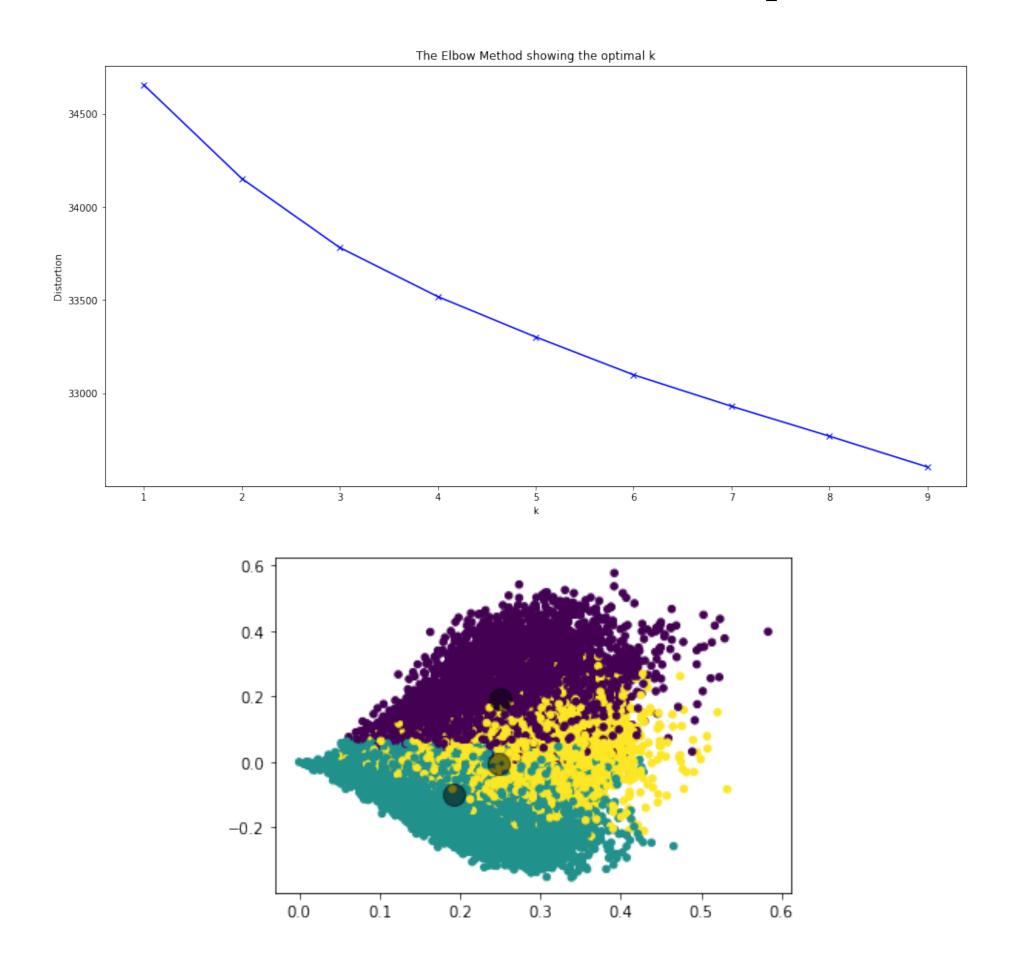
- Preprocessing
 - Tokenizing abstracts
 - Customized stopwords
 - Lemmatization
 - TF-IDF

3. Clustering - Original CORD-19: COVID-19 Open Research Dataset



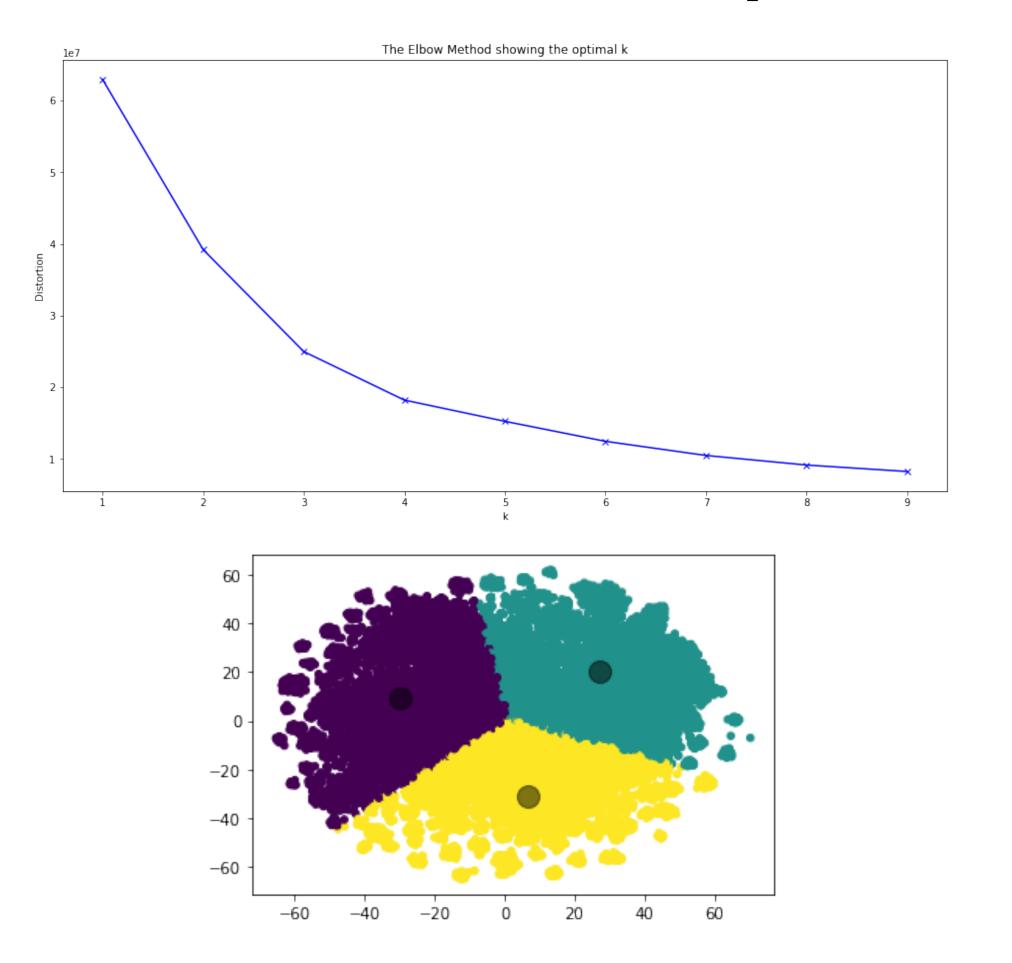


3. Clustering - SVD CORD-19: COVID-19 Open Research Dataset



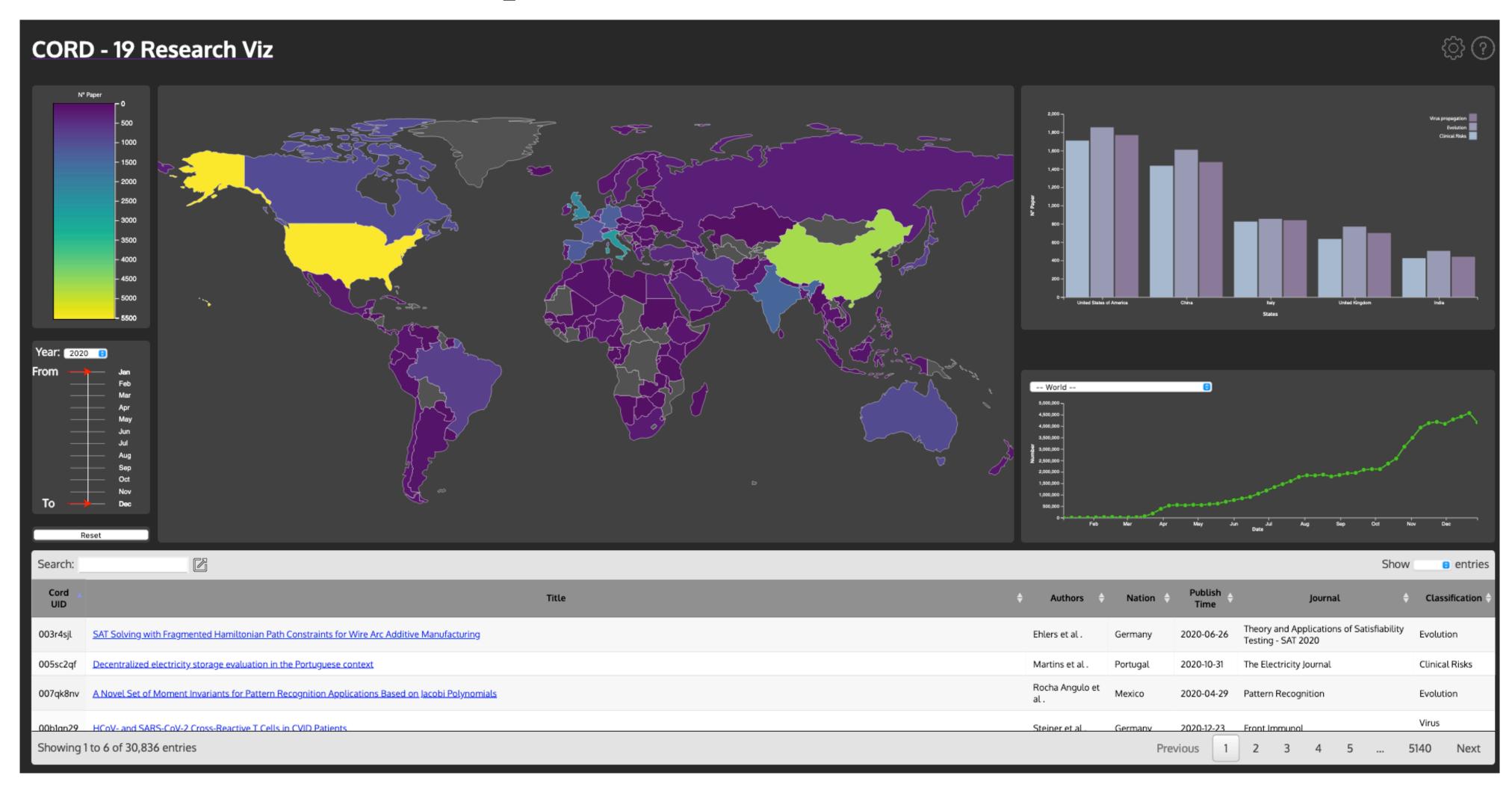


3. Clustering - t-SNE CORD-19: COVID-19 Open Research Dataset

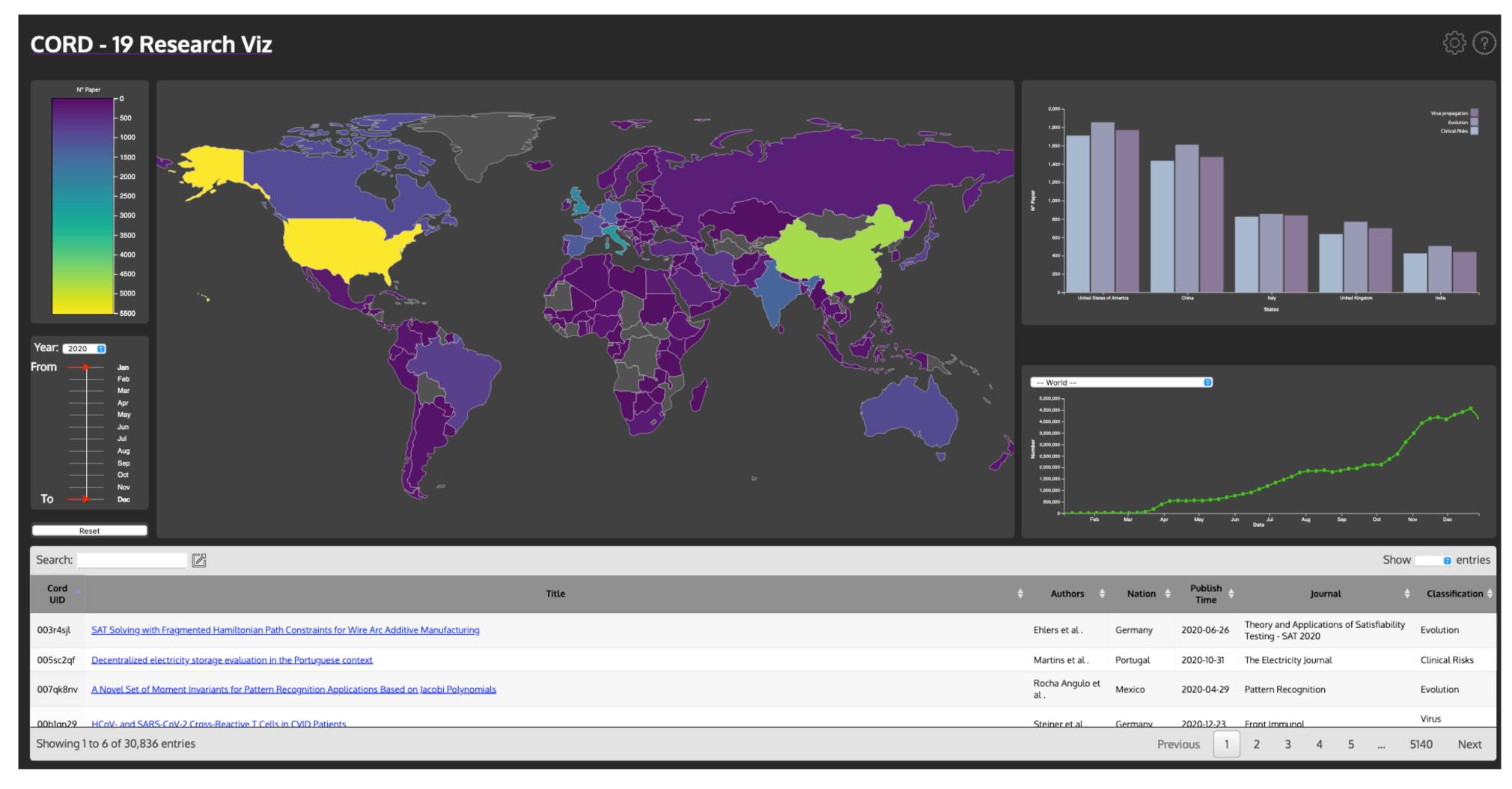




4. Visualization platform



4. Visualization platform - Demo



5. Discussion and conclusion



A different point of view to see the scientific research



Huge amount of data



Topic classification



Serverless



Independent of the topic



Applying a NN

References

- Wang, L.L., et al. "CORD-19: The COVID-19 Open Research Dataset." arXiv (2020).
 - Paper: https://arxiv.org/abs/2004.10706.
 - ► Dataset: https://ai2-semanticscholar-cord-19.s3-us-west-2.amazonaws.com.
- Visualization platform.
 - Github pages: https://tascio9.github.io/Thesis/.

Thanks