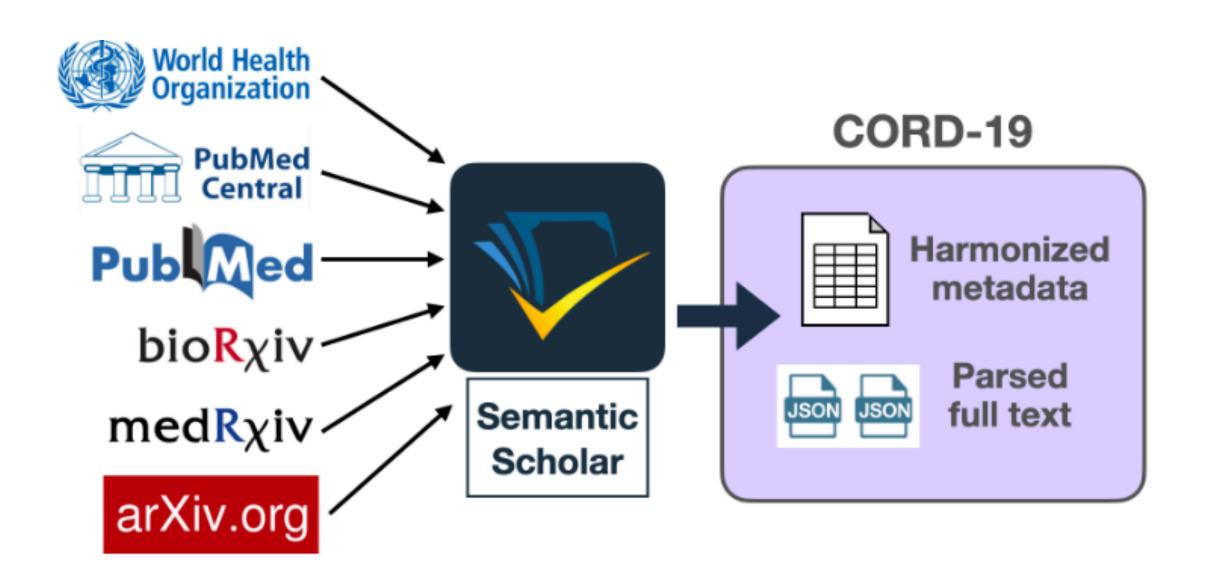
Scientific Research Visualization: A Case Study on Covid-19 Literature

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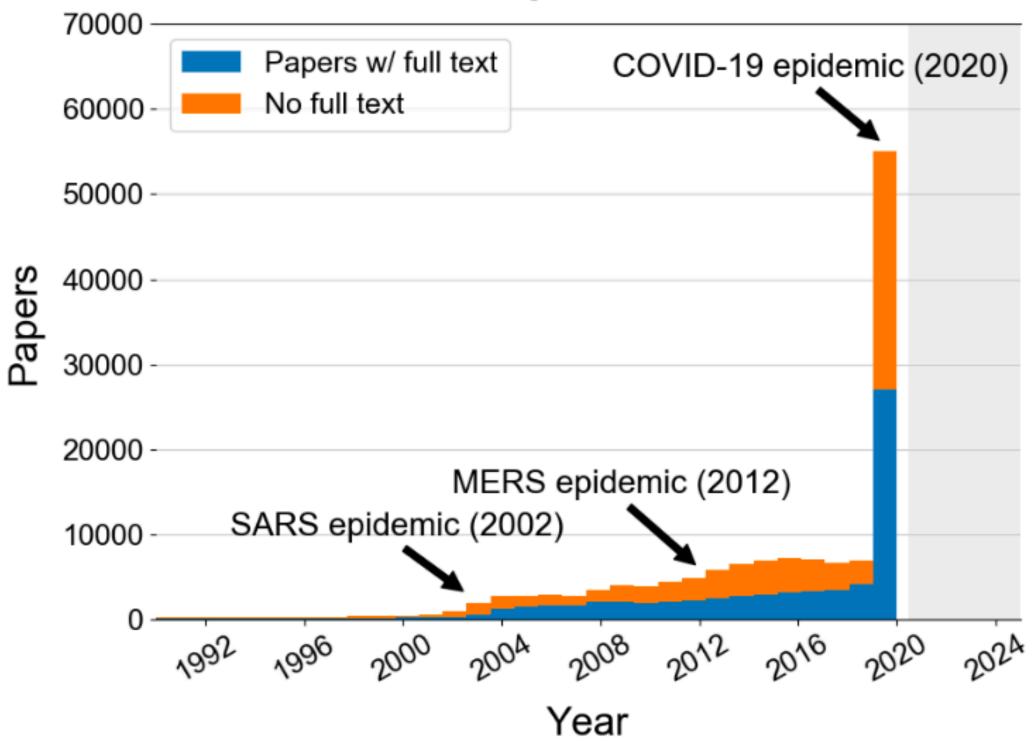
Mission Tracking the evolution of the scientific research along the time using a visualization platform

1. Introduction



Papers and preprints are collected from different sources through Semantic Scholar. Released as part of CORD-19 are the harmonized and deduplicated metadata and full text JSON.

Papers per year in CORD-19

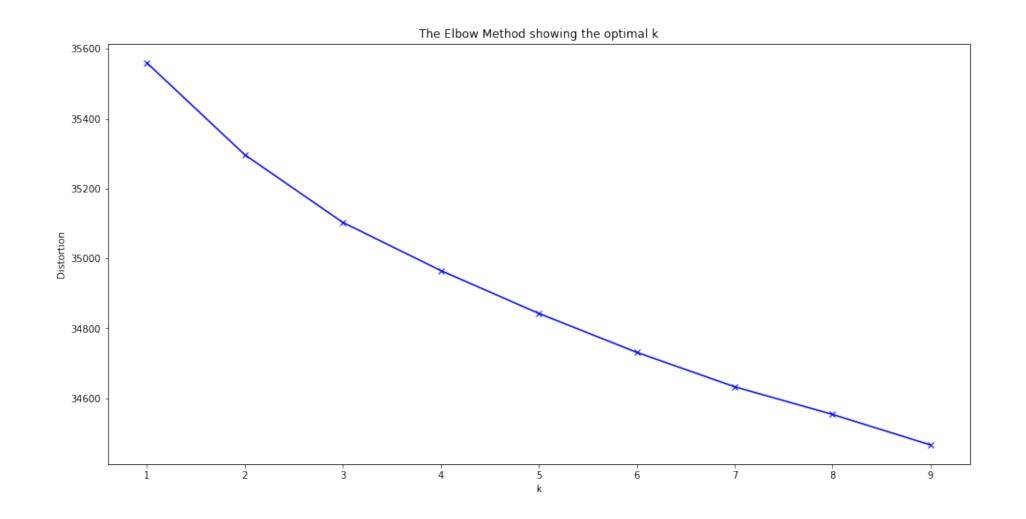


The distribution of papers per year in CORD-19. A spike in publications occurs in 2020 in response to COVID-19.

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

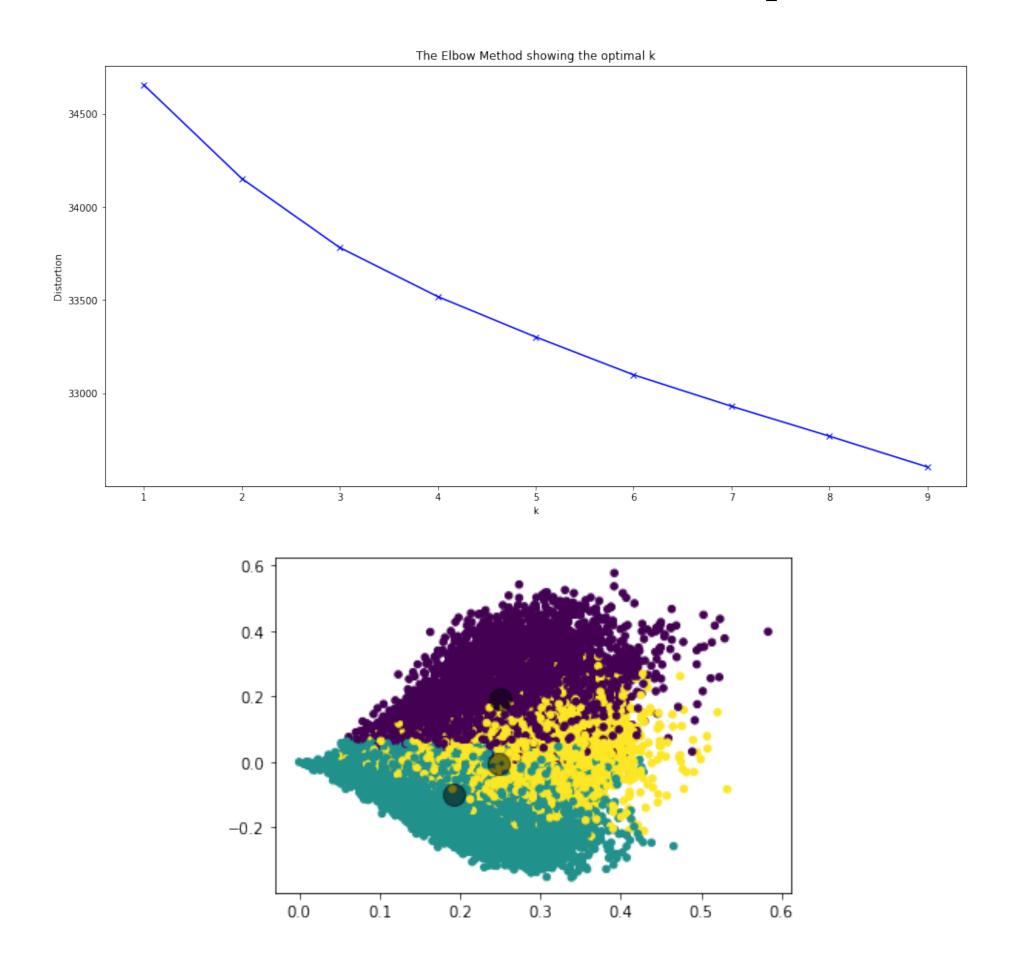
- Preprocessing
 - Tokenizing abstracts
 - Customized stopwords
 - Lemmatization
 - TF-IDF

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



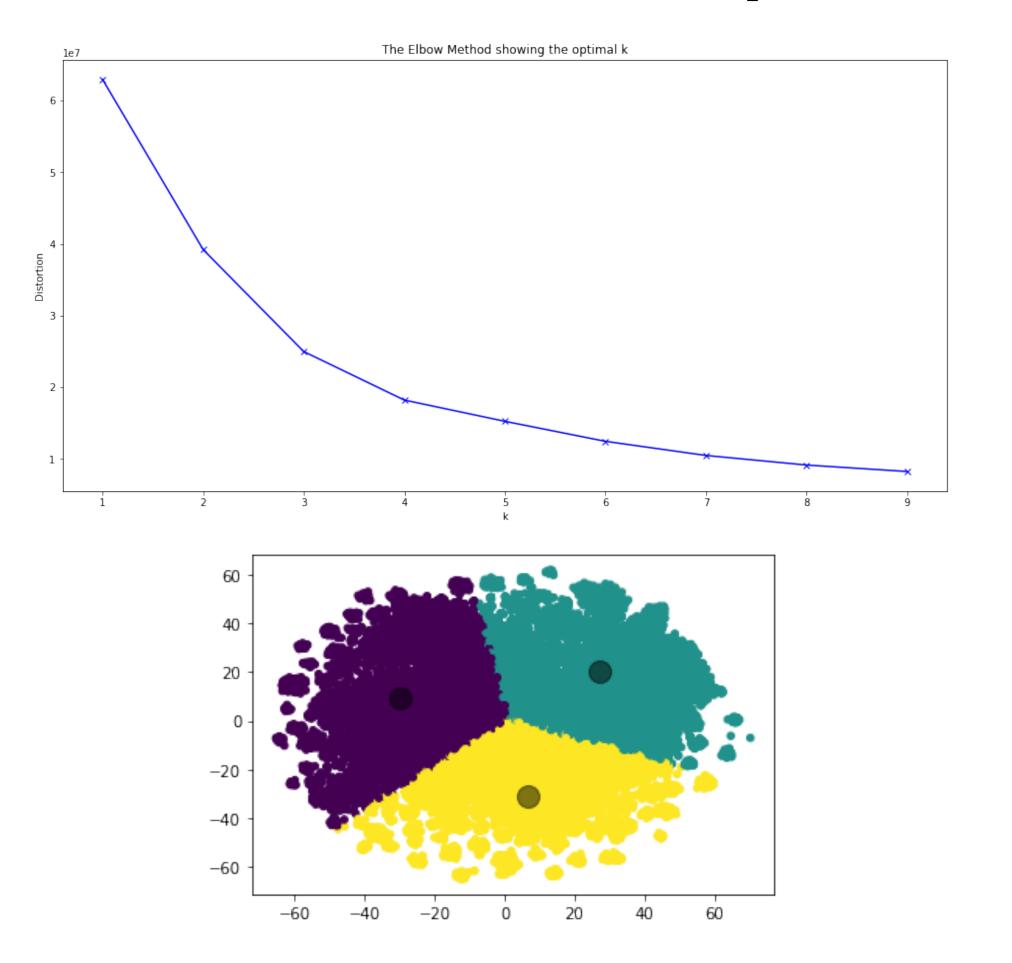


3. Clustering - SVD CORD-19: COVID-19 Open Research Dataset



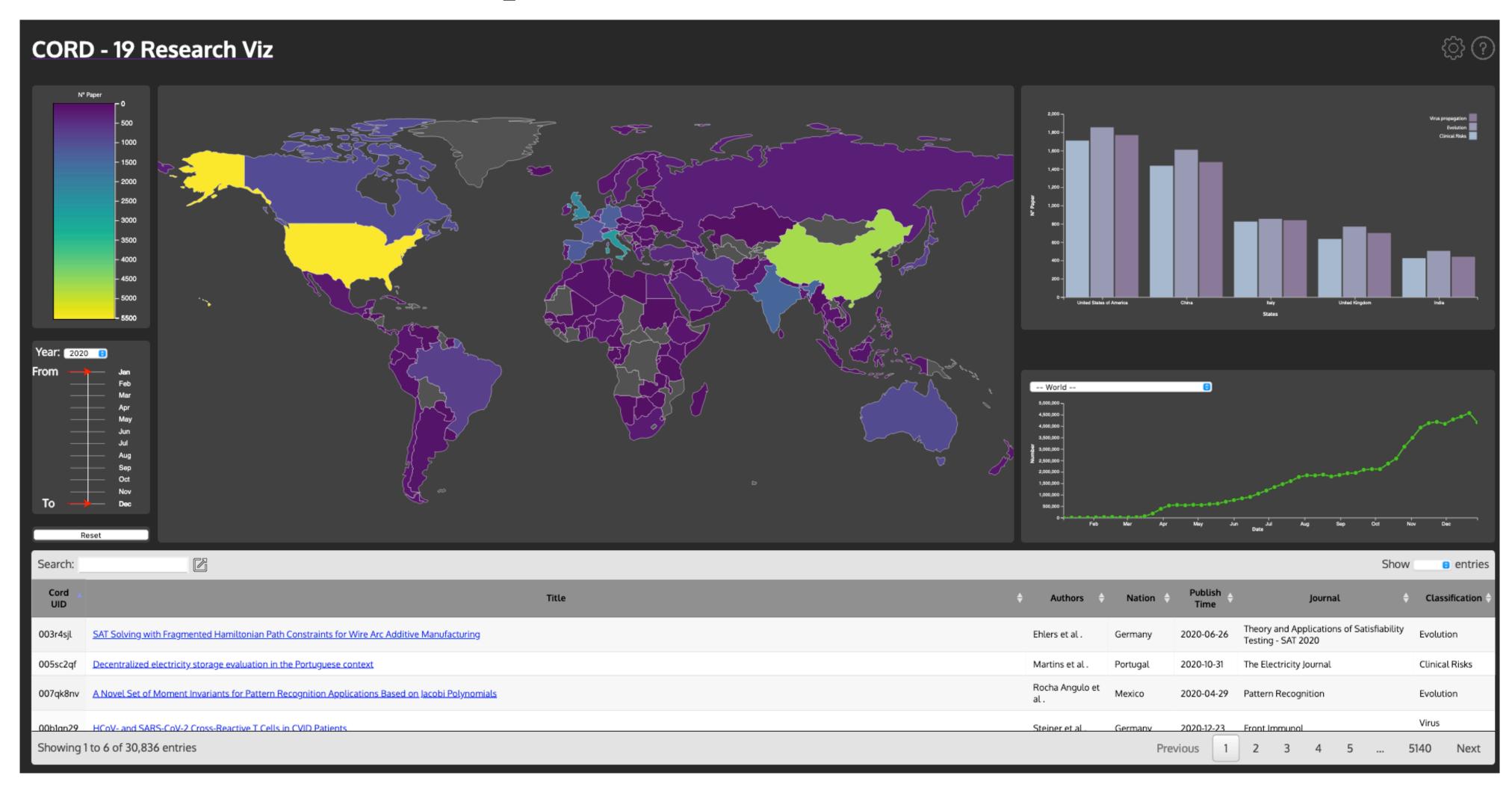


3. Clustering - t-SNE CORD-19: COVID-19 Open Research Dataset

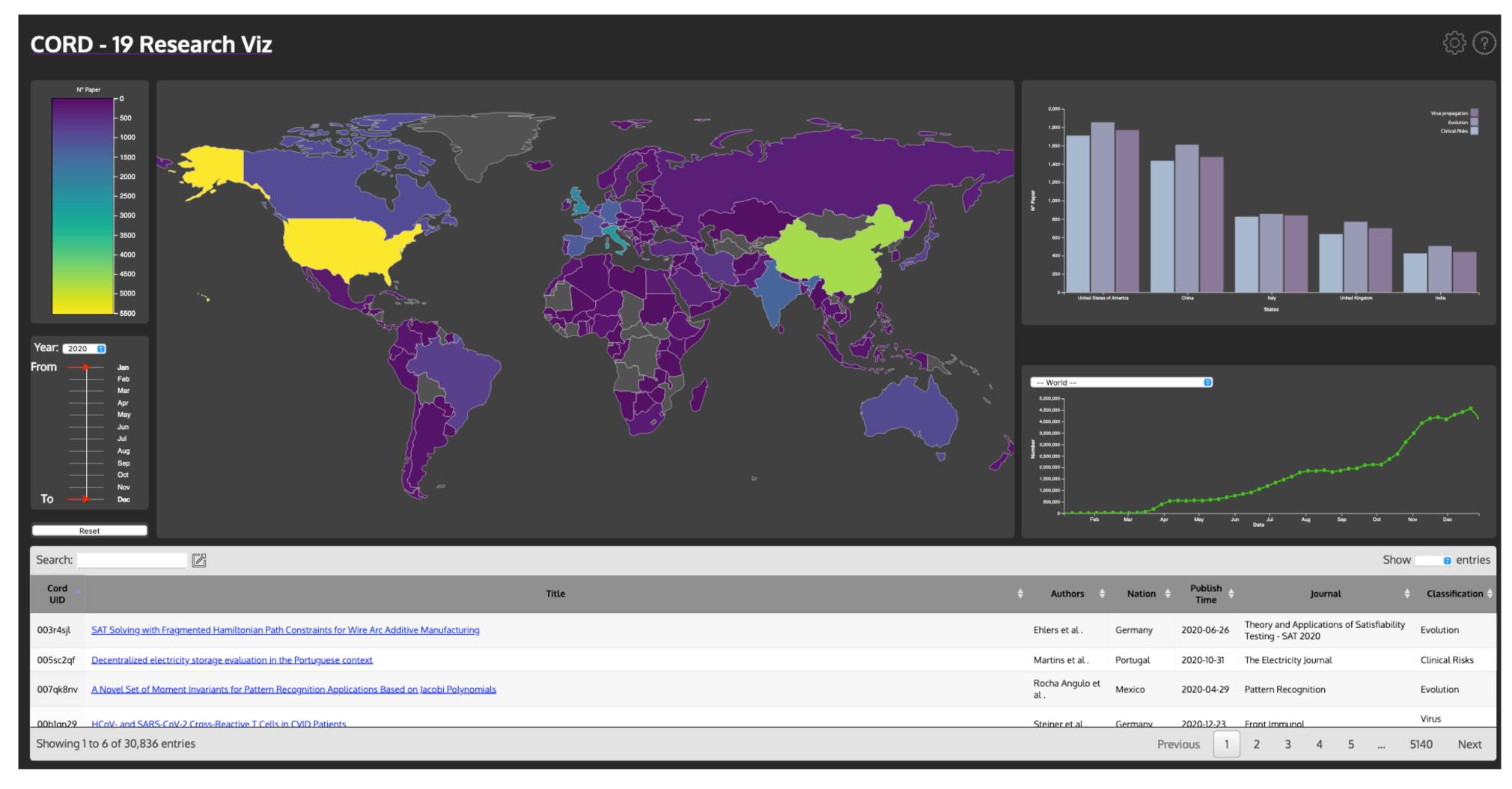




4. Visualization platform



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



Possible generalization



Applying a NN

Thanks