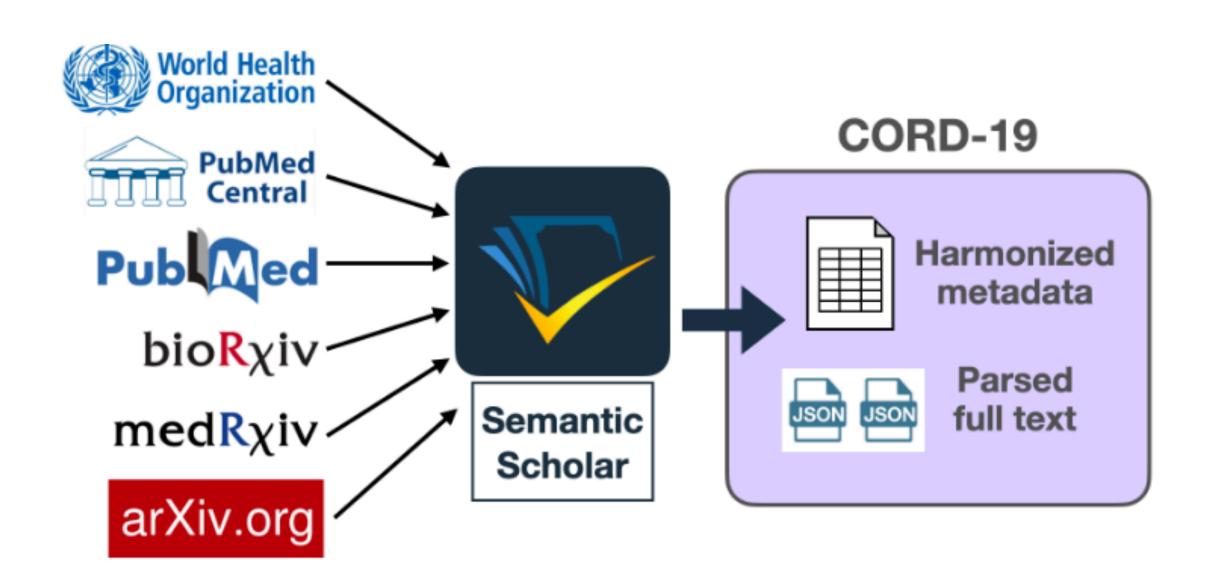
Scientific Research Visualization: A Case Study on Covid-19 Literature

Table of Contents

- 1. Introduction
- 2. Text mining
- 3. Clustering
- 4. Visualization platform
- Conclusions and future works

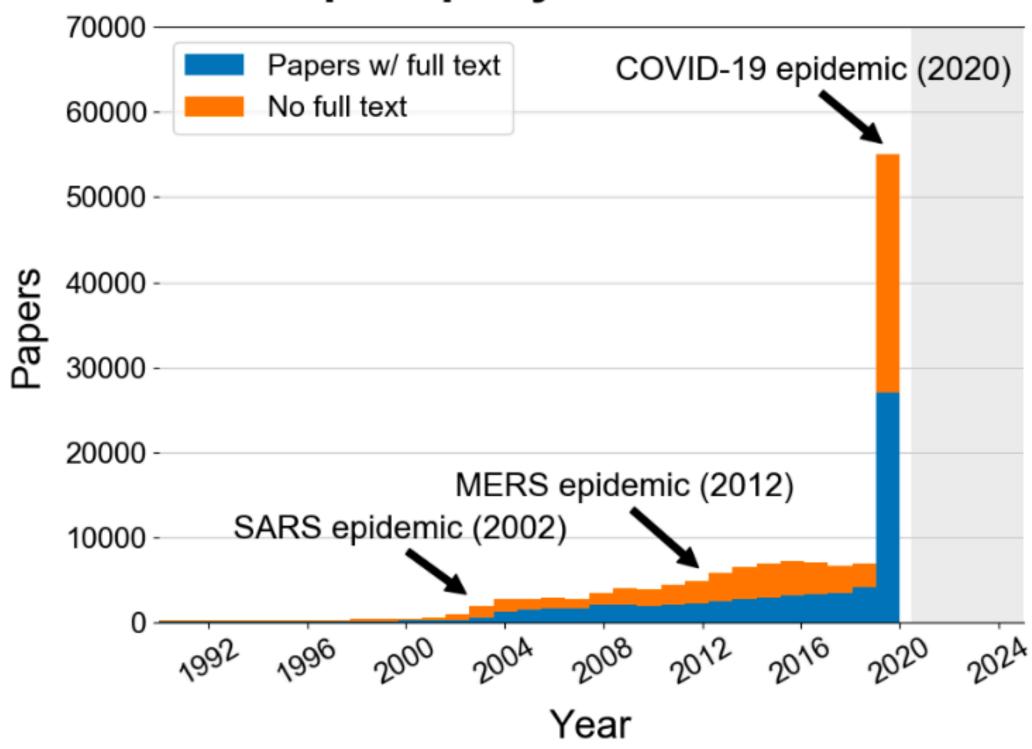
Mission Tracking the evolution of the scientific research along the time using a visualization platform

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. [1]

Papers per year in CORD-19



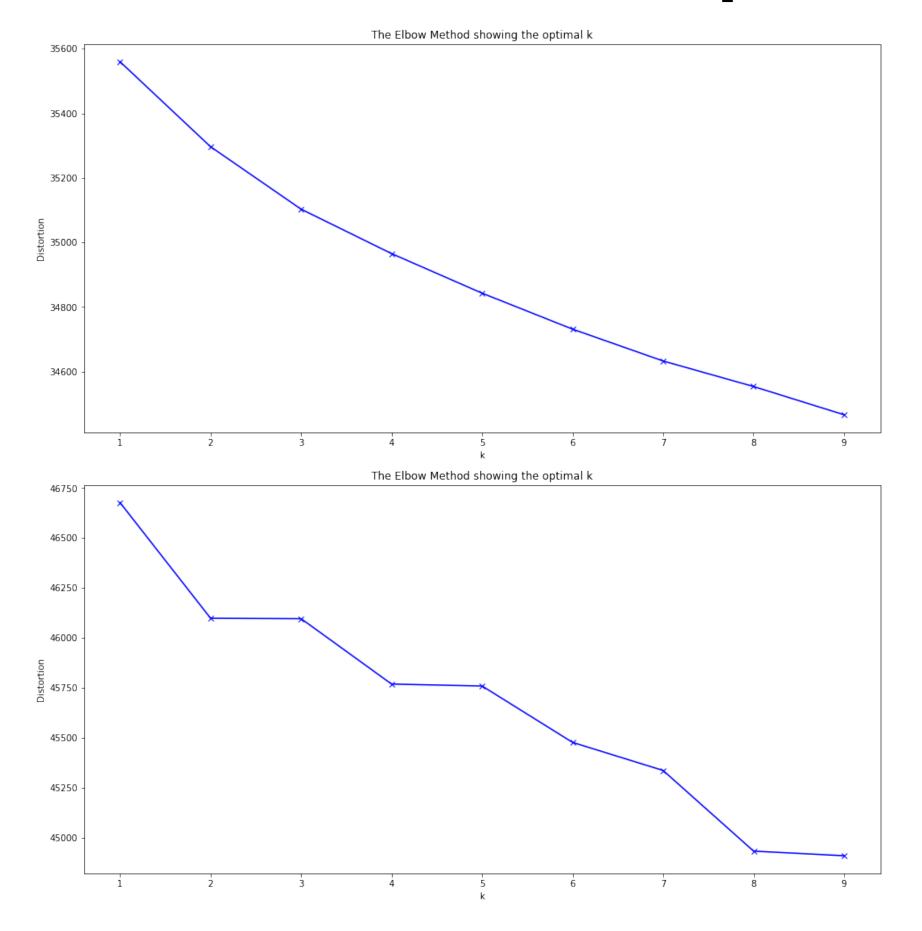
The distribution of papers per year in CORD-19. A spike in publications occurs in 2020 in response to COVID-19. [1]

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

- Preprocessing
 - Tokenizing abstracts
 - Customized stop words
 - Lemmatization
 - TF-IDF

Glustering - Original

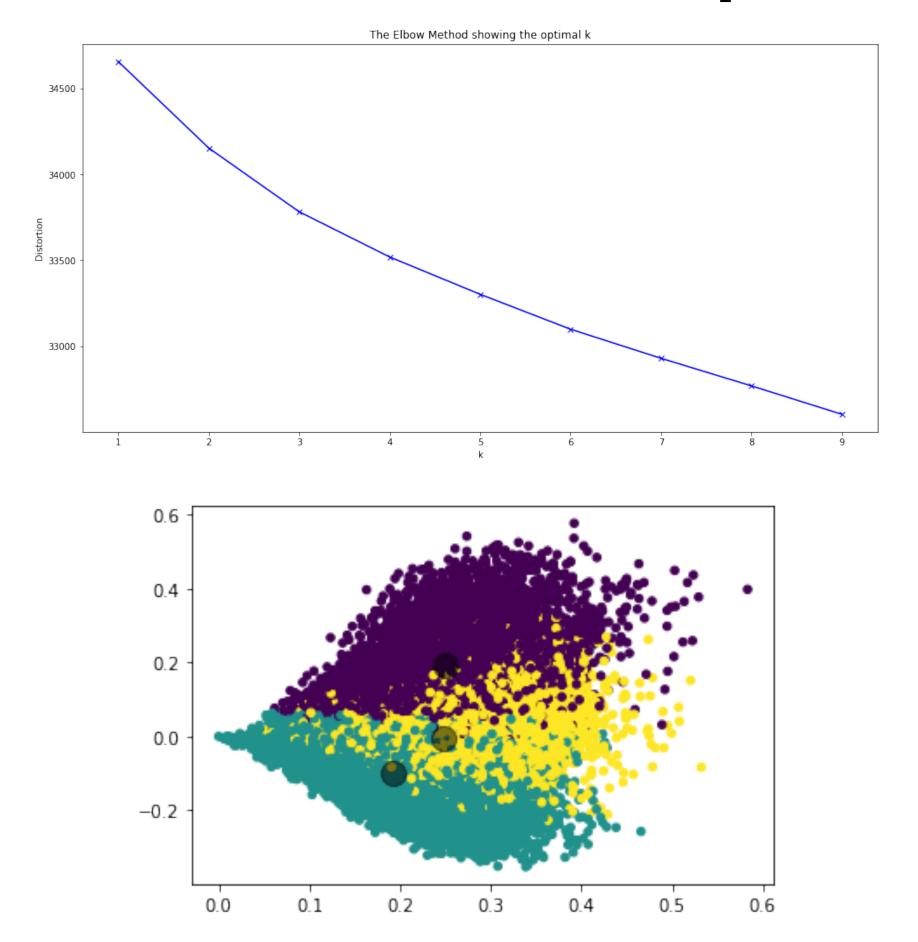
CORD-19: COVID-19 Open Research Dataset





Clustering - SVD

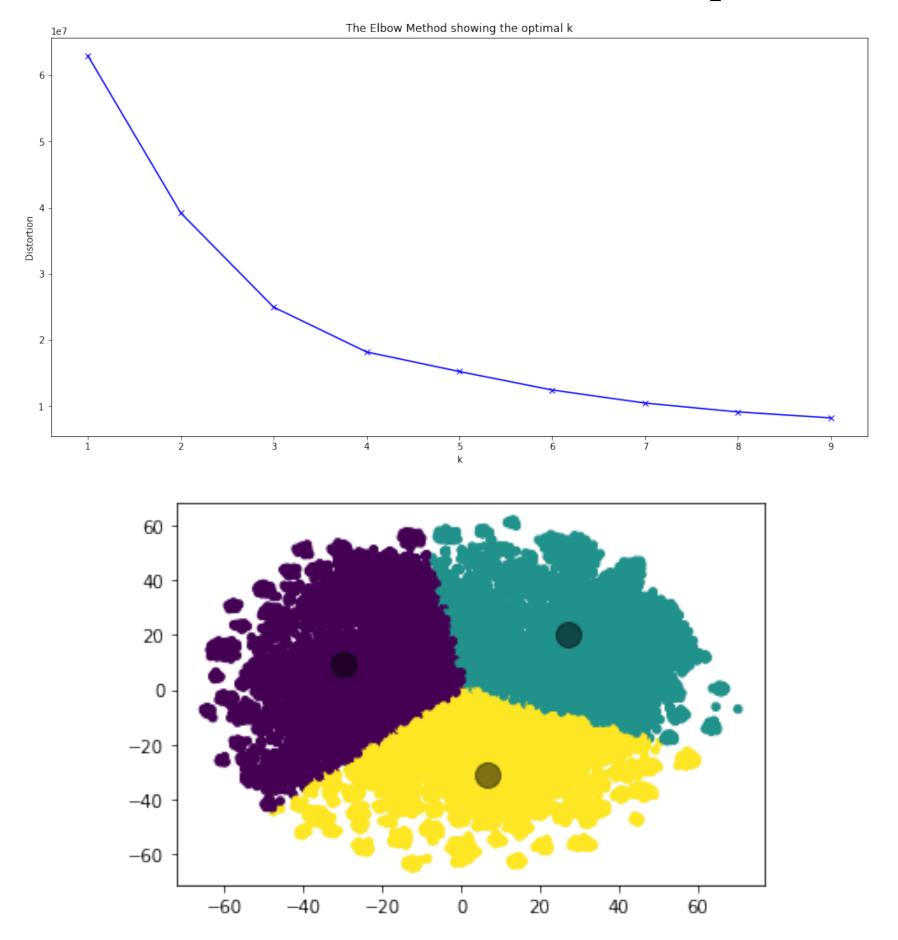
CORD-19: COVID-19 Open Research Dataset





Glustering - t-SNE

CORD-19: COVID-19 Open Research Dataset





Clustering - t-SNE

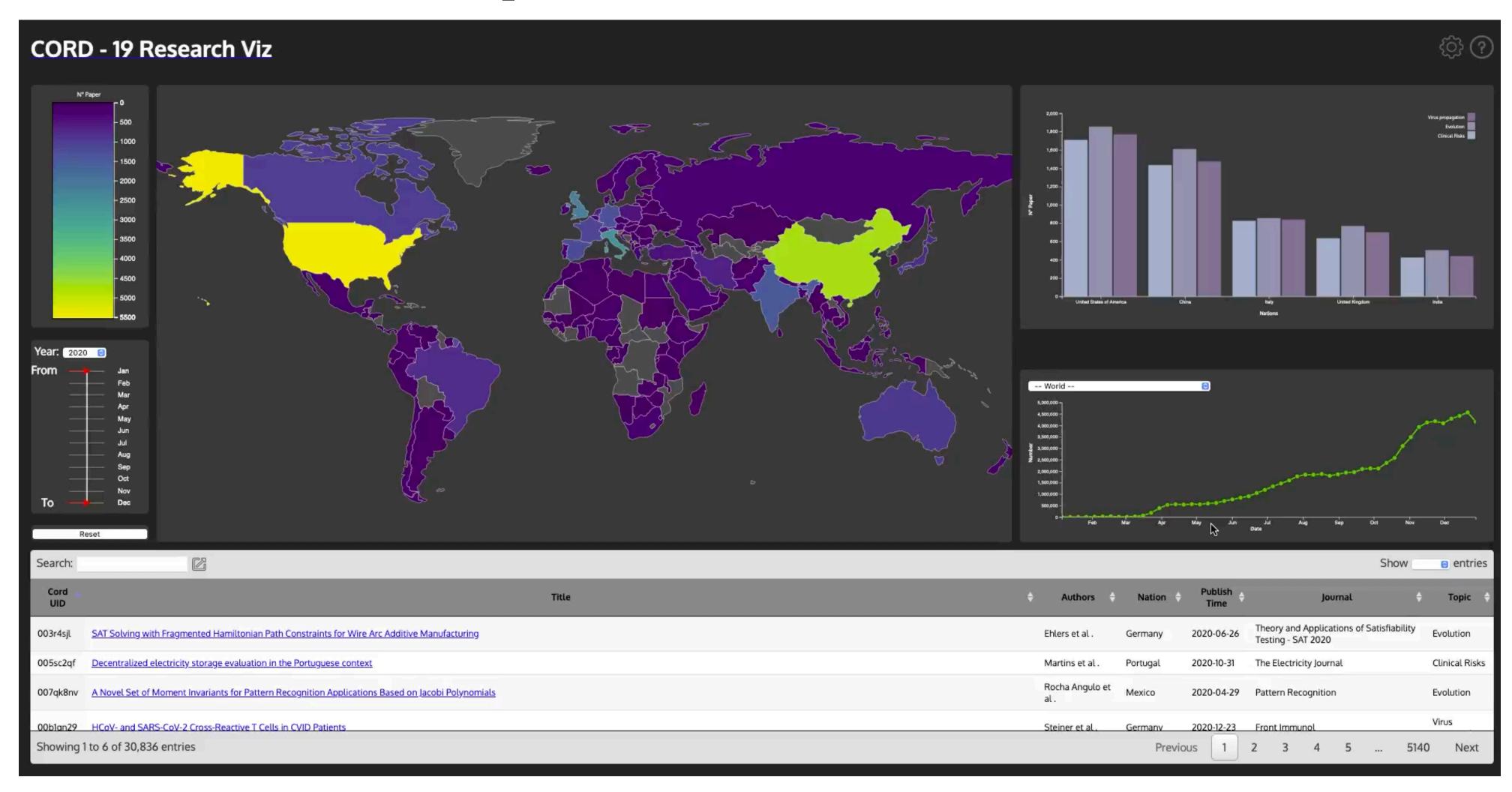
CORD-19: COVID-19 Open Research Dataset



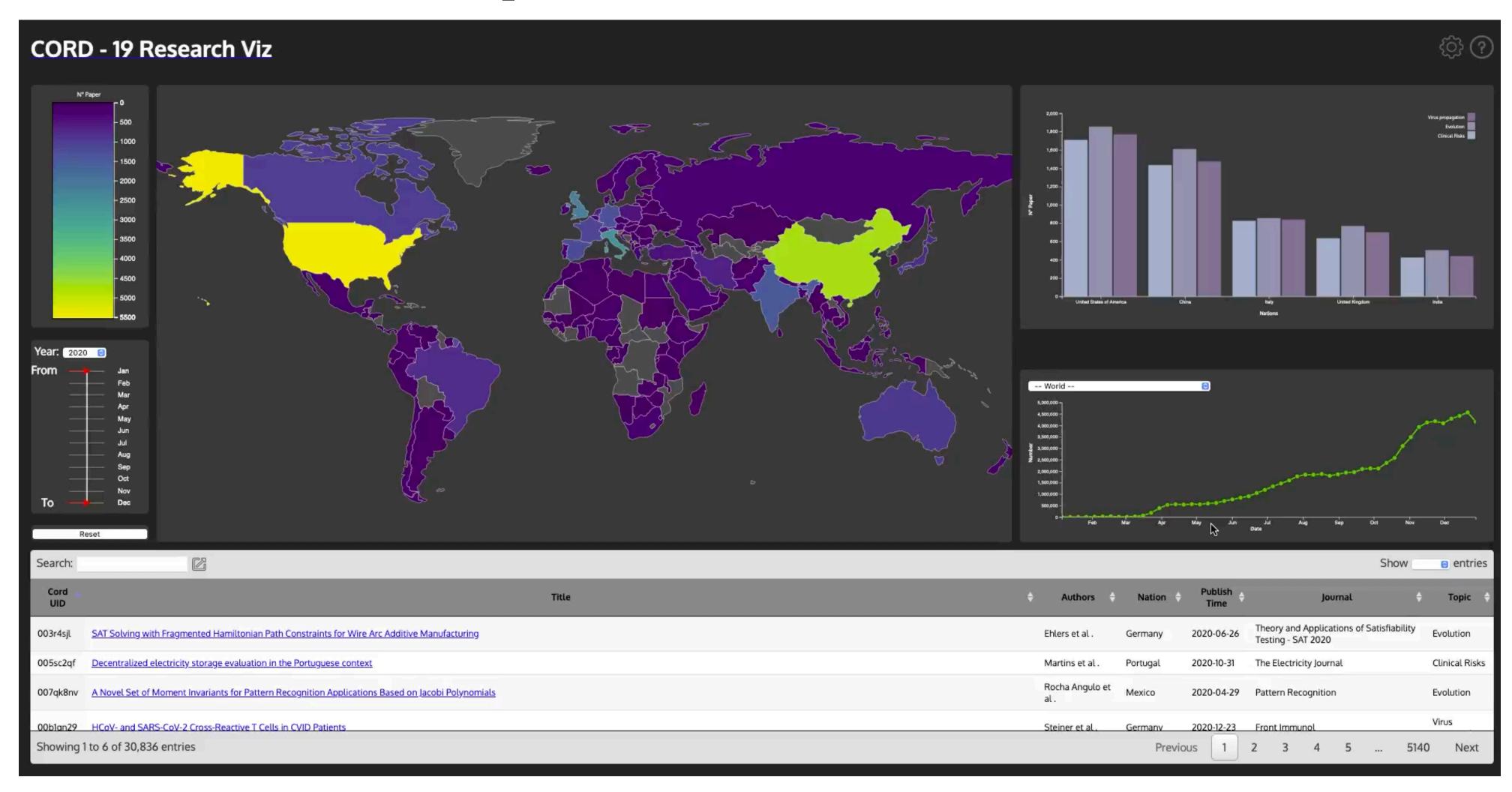
4. Visualization platform

CLICK ME -**CORD - 19 Research Viz** Theory and Applications of Satisfiability Hospital The Electricity Journal Care Rocha Angulo et Societal Showing 1 to 6 of 30,836 entries Previous 1 2 3 4 5 ... 5140 Next

4. Visualization platform - Demo



4. Visualization platform - Demo



Discussion and conclusion



A different point of view to see the scientific research



Topic classification



Possible generalization



Time-consuming



Local computation



Applying a neural network

Thanks