

Research question: How the concept space of the Digital Ethics research looks like?

Aim of the research: To identify the range of the topics around Digital Ethics studies

Research process

Data Data Frame Network Data Collection Preparation Creation Creation and Cleaning Articles from **Transforming** Data frame of Setting the Community pdf to text files, the words nodes and edges detection and open sources clustering merging co-appearance in sizes texts, lower case, the texts identify and remove stopwords, noise and punctuation

Data

Context:

10 articles for each topic connected to Digital Ethics studies:

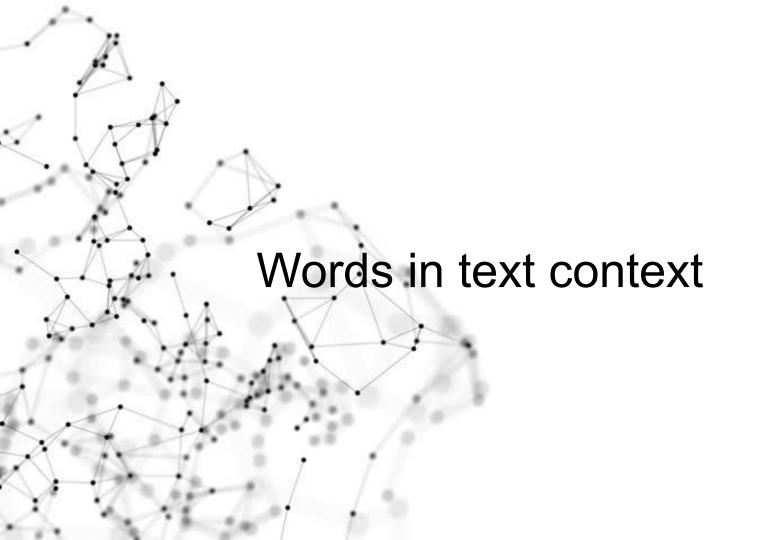
- 1. Artificial intelligence
- 2. Robotics
- 3. Open Government, Trust, Ethics in e-democracy
- 4. Open Source
- 5. Digital Accessibility

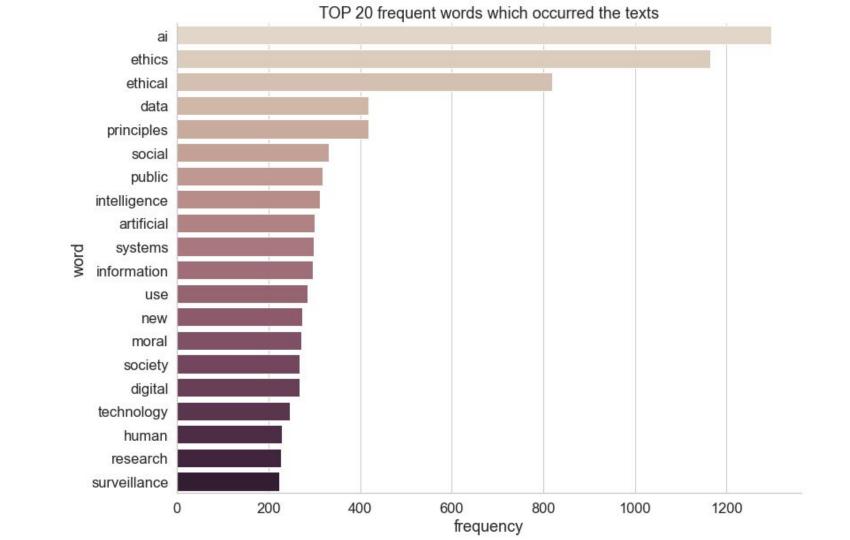
Overall:

50 texts

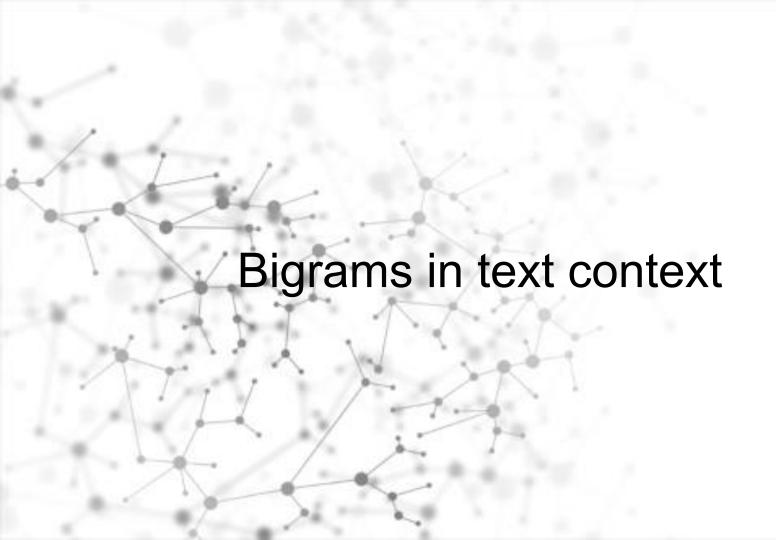
76318 tokens after cleaning

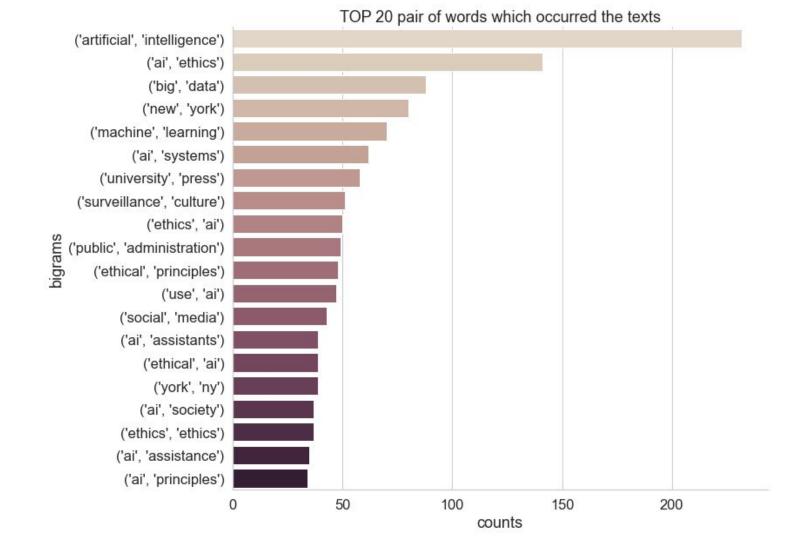
1000 top bigrams for the network analysis





Wordcloud of TOP 100 frequent words which occurred the texts guérin guideline ethics .big data_ cialpowerinte agent







Network

Context:

Undirected Graph

Nodes:782

Edges: 998

Weight: co-appearance frequency

Filters:

Degree Range 3-71

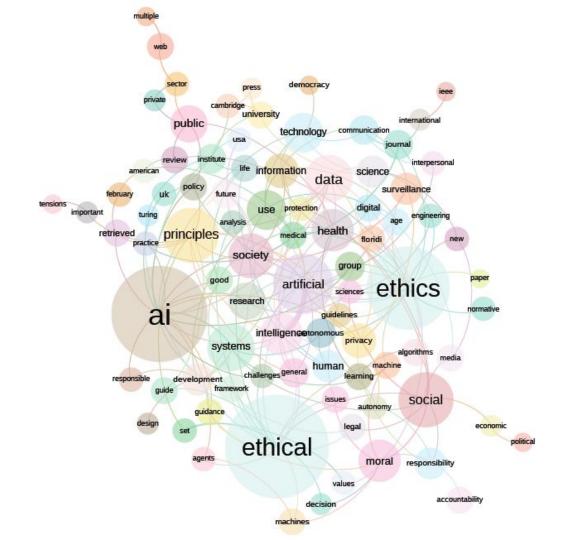
Giant Components

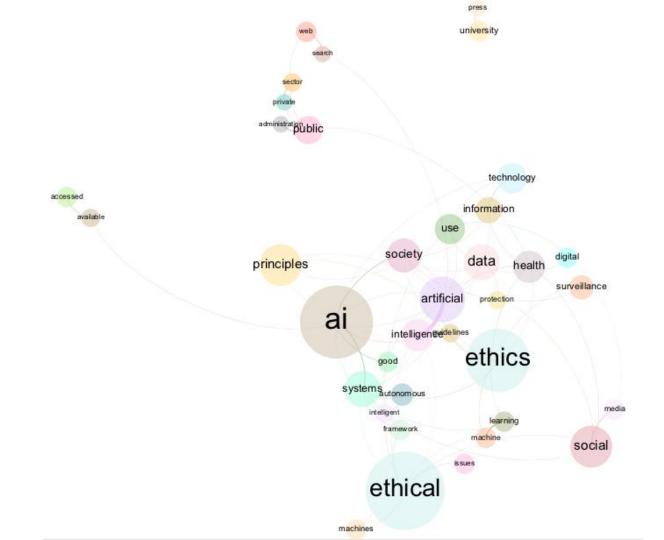
Edge Weight 4-232

Statistics:

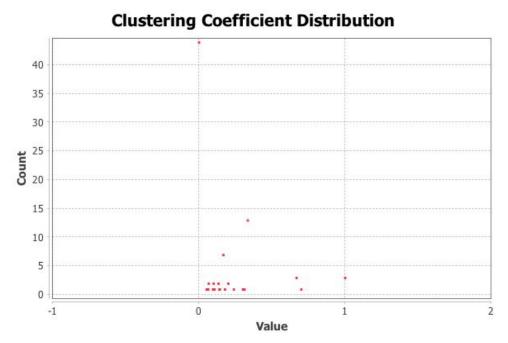
Density: 0.048

Connected components: 6





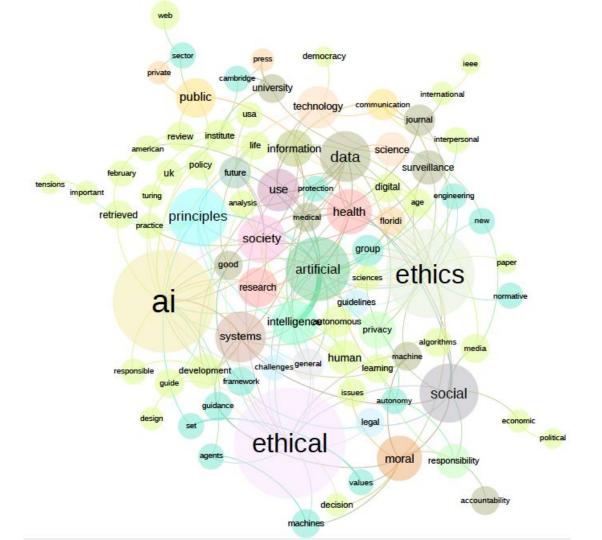
Additional analysis: detecting the clusters



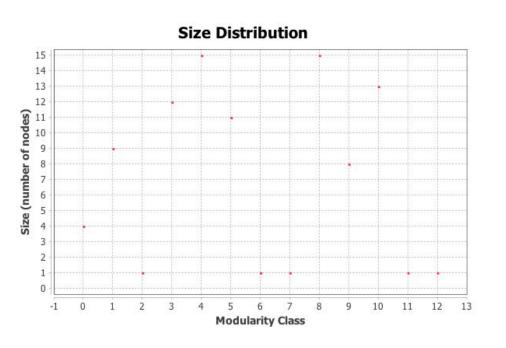
Average Clustering Coefficient: 0.179

Total triangles: 57

The Average Clustering
Coefficient is the mean value of individual coefficients.



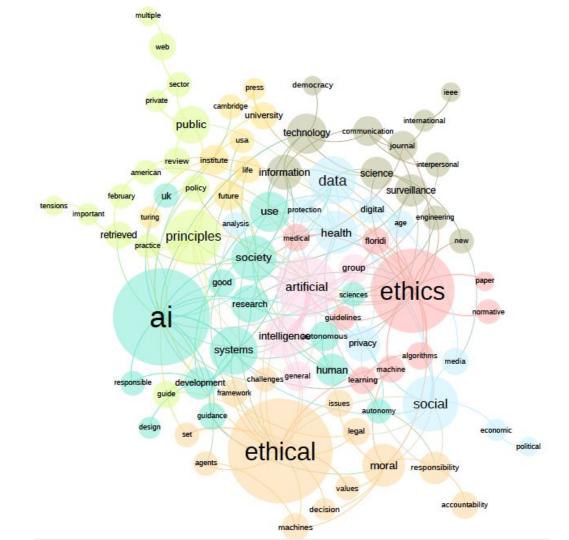
Additional analysis: detecting the communities

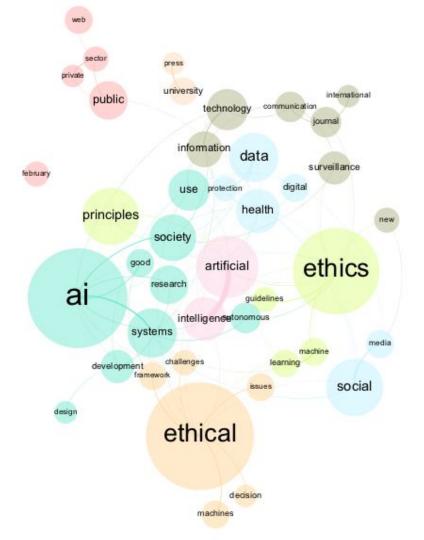


Modularity: 0.558

Modularity with resolution: 0.558

Number of Communities: 13





Thank you for your attention!