

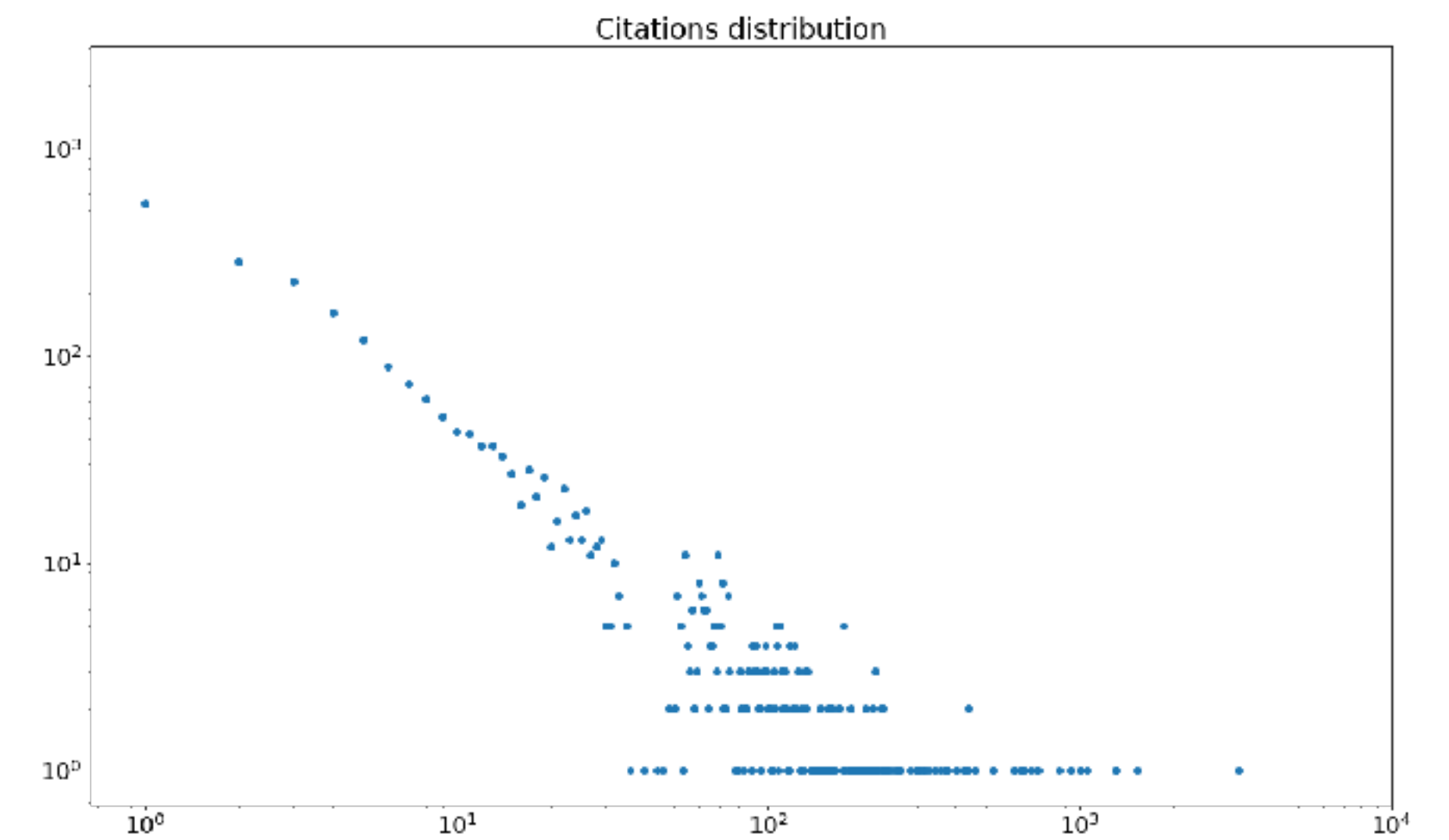
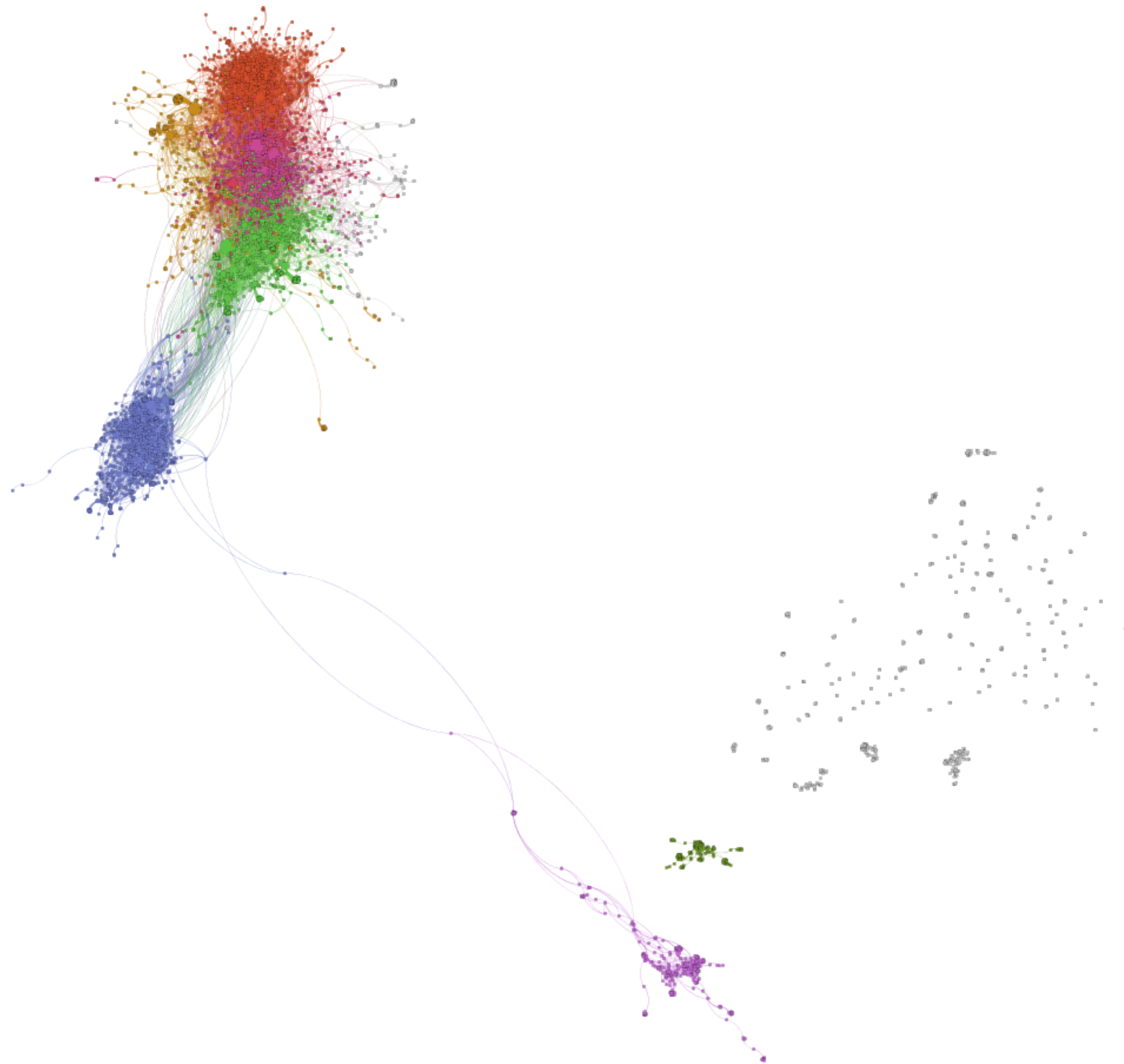
Case studies

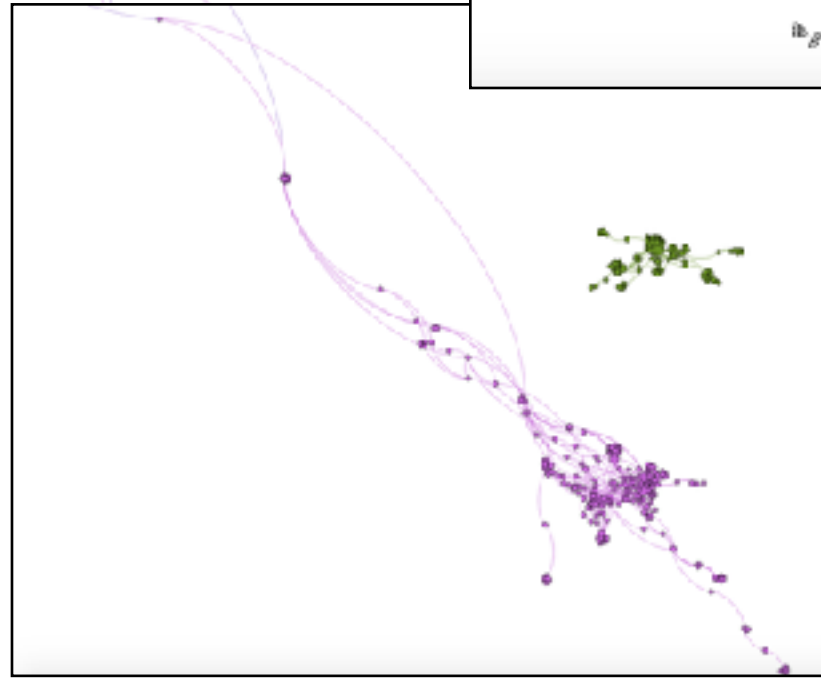
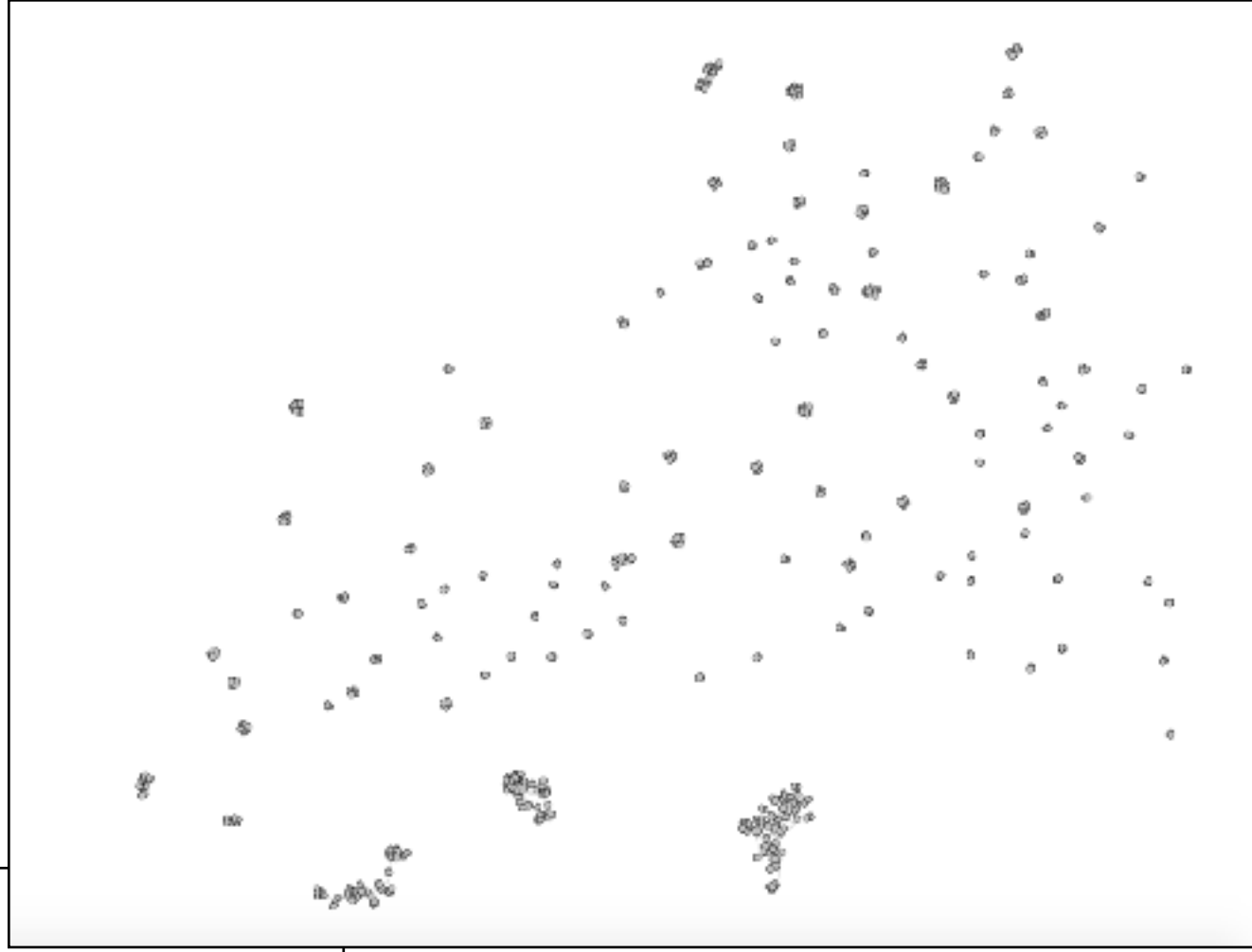
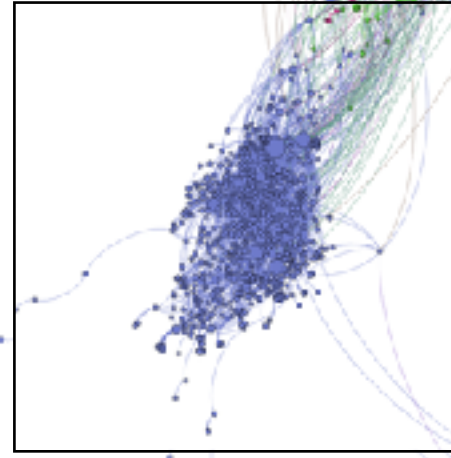
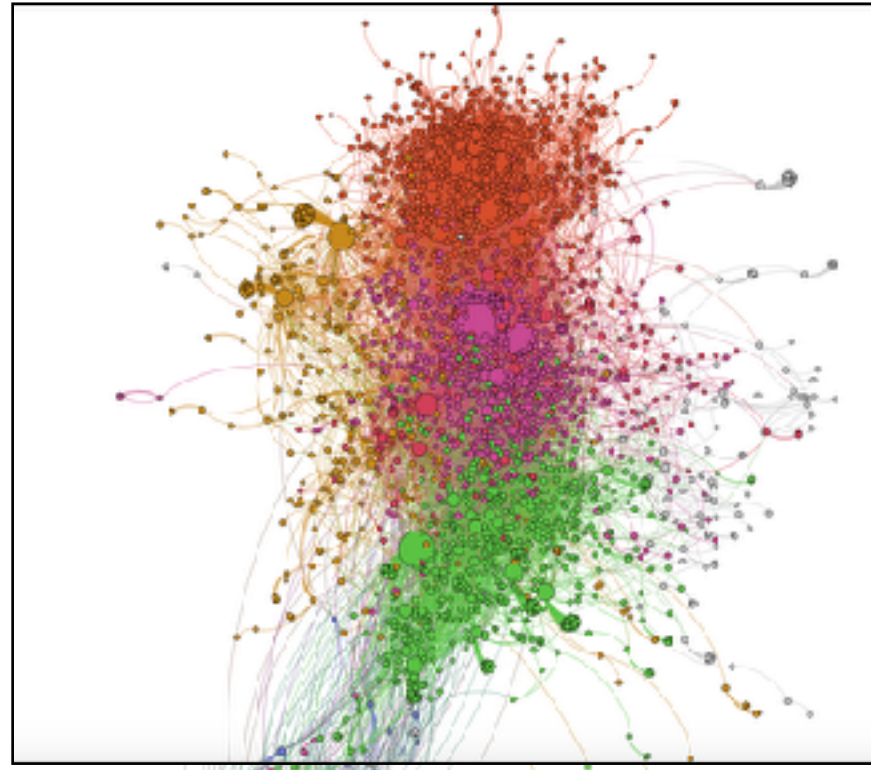
Case study: citation network

- ❖ Let's consider again our collection of scientific papers on fake news
- ❖ a citation is a directed link
- ❖ we can build a network and analyze its structure

"fake news" citation network

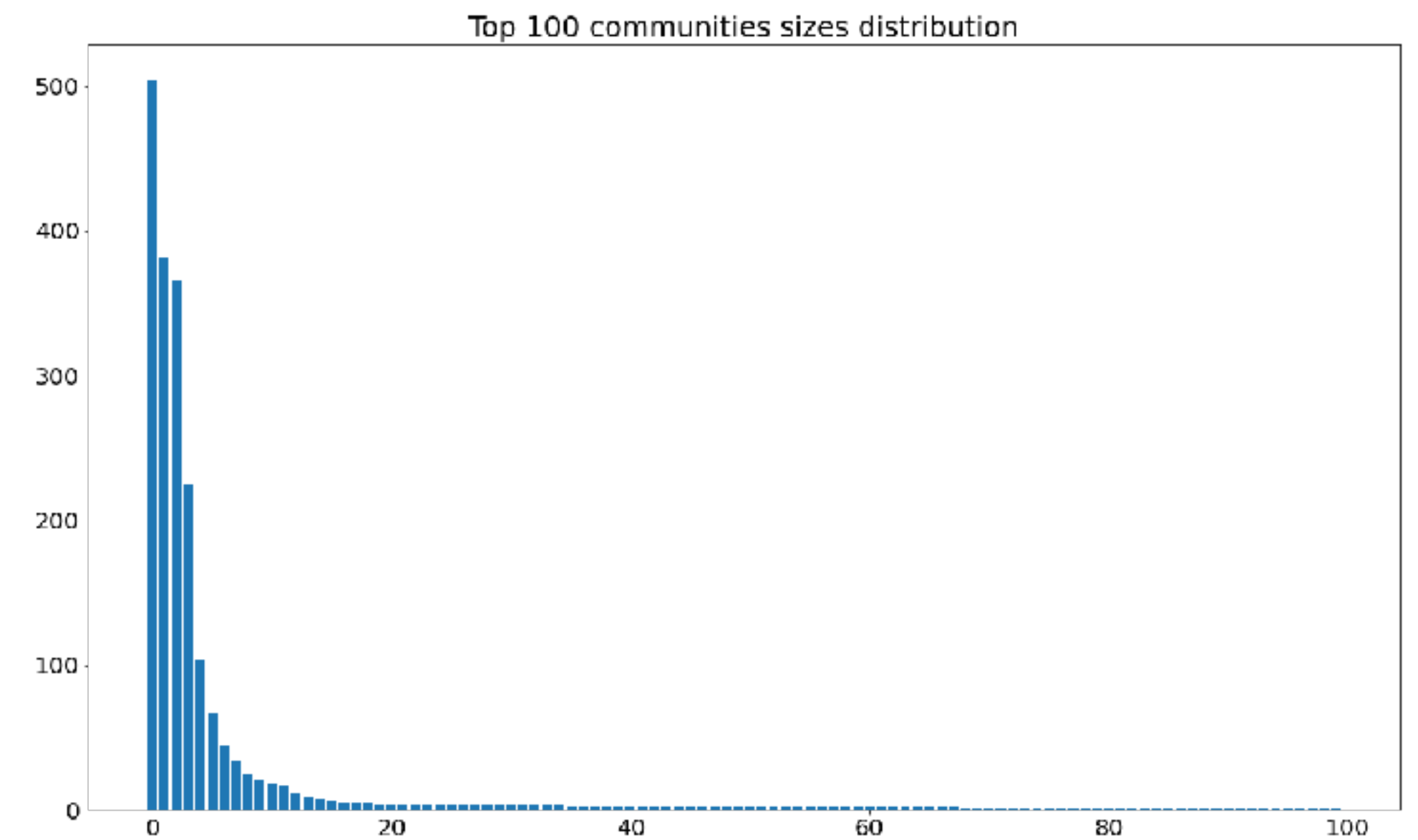
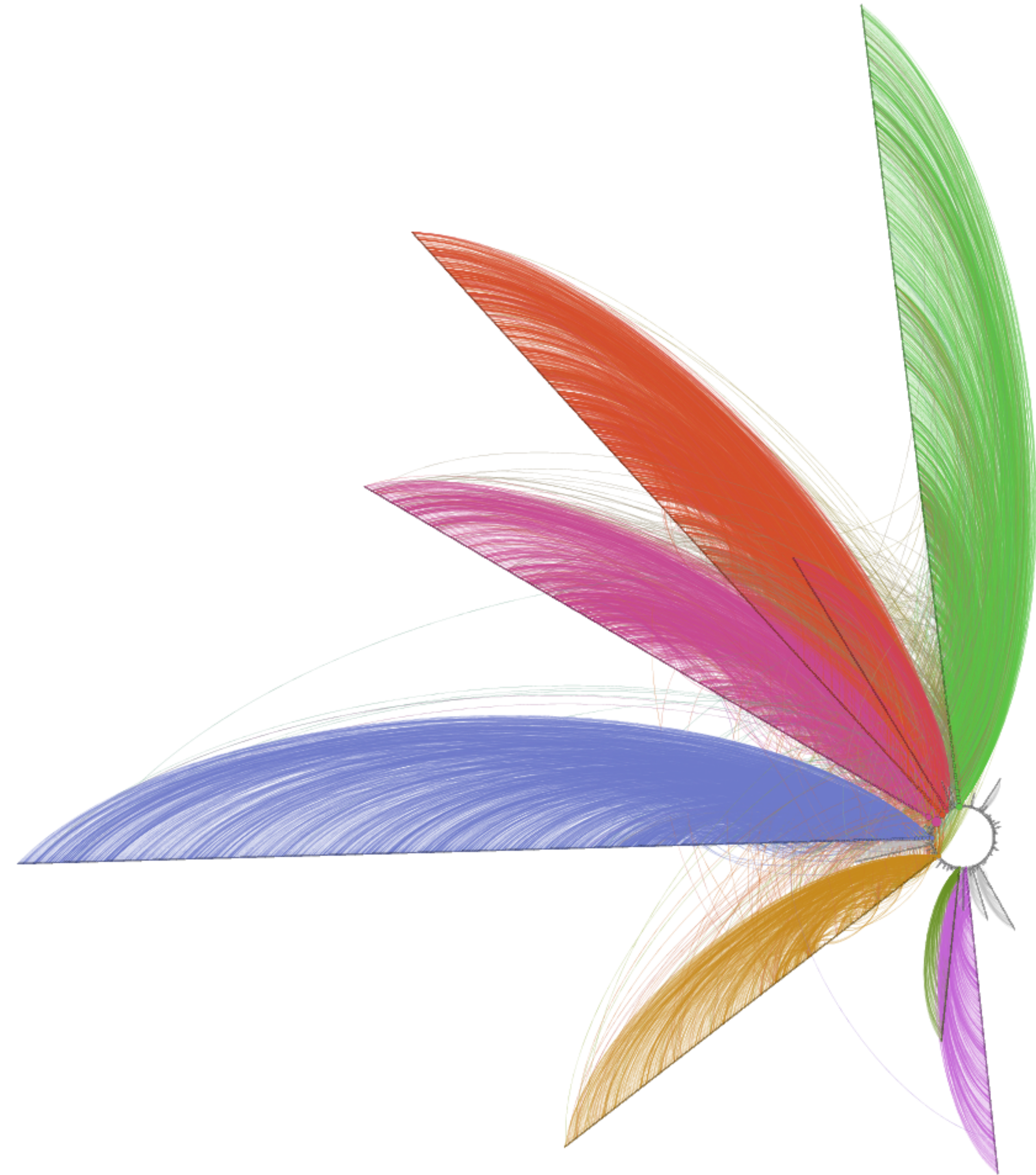
- ❖ Force Atlas 2 Layout
- ❖ 8 biggest clusters
- ❖ Highly heterogeneous (both in terms of in-degree than of disciplines / venues)

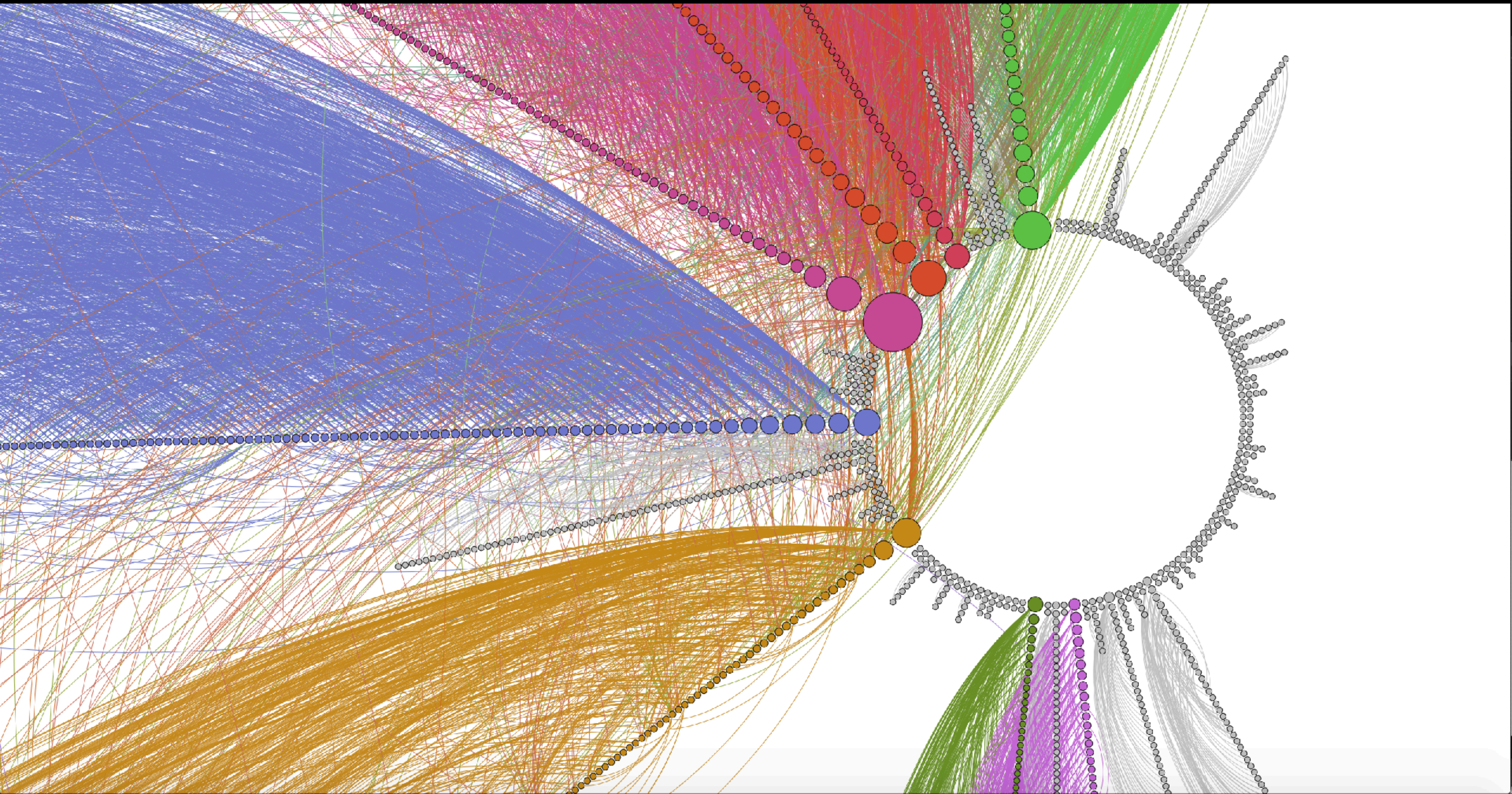




"fake news" citation network

- ❖ Axis Radial Layout
- ❖ intra vs inter clusters connections
- ❖ significantly different sizes





Largest clusters analysis

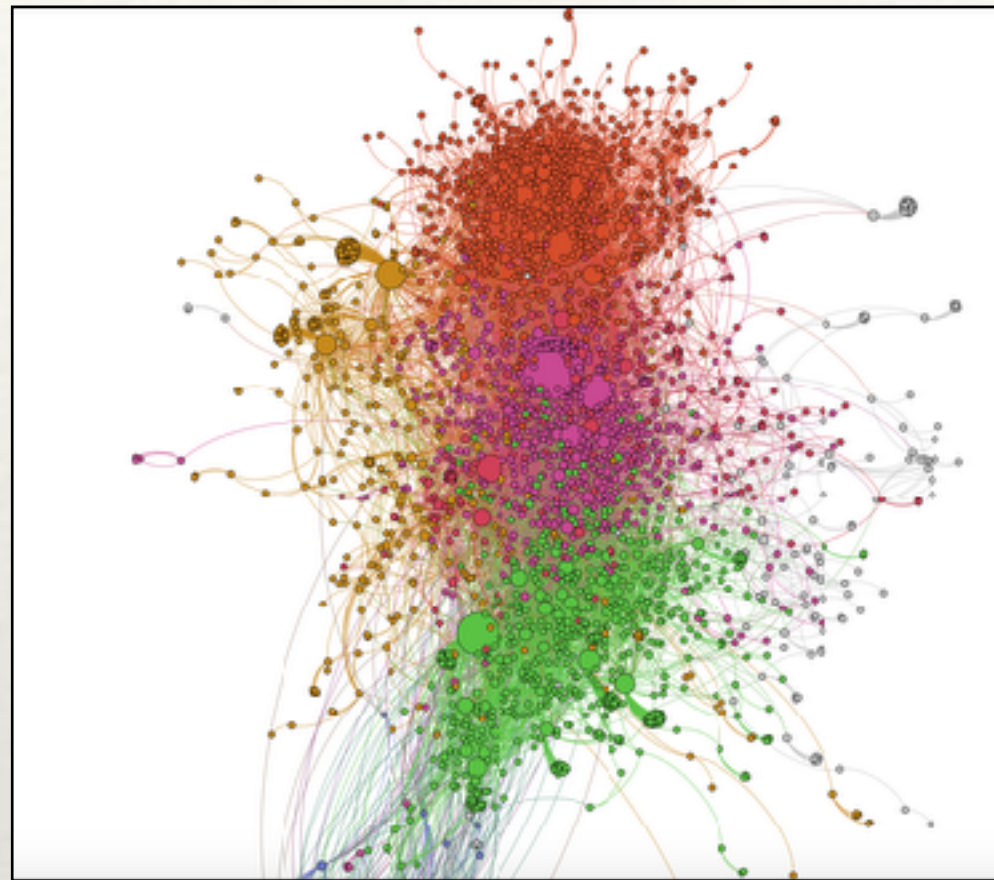
❖ Cluster 2: 365

❖ Cluster 3: 225

❖ Cluster 4: 103

❖ Cluster 6: 45

❖ Cluster 1: 382



Identification

Rumors

Algorithms

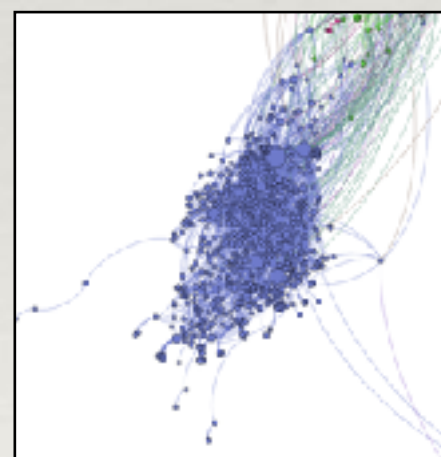
Spreading

Psychology

Influence

Media

❖ Cluster 0: 504

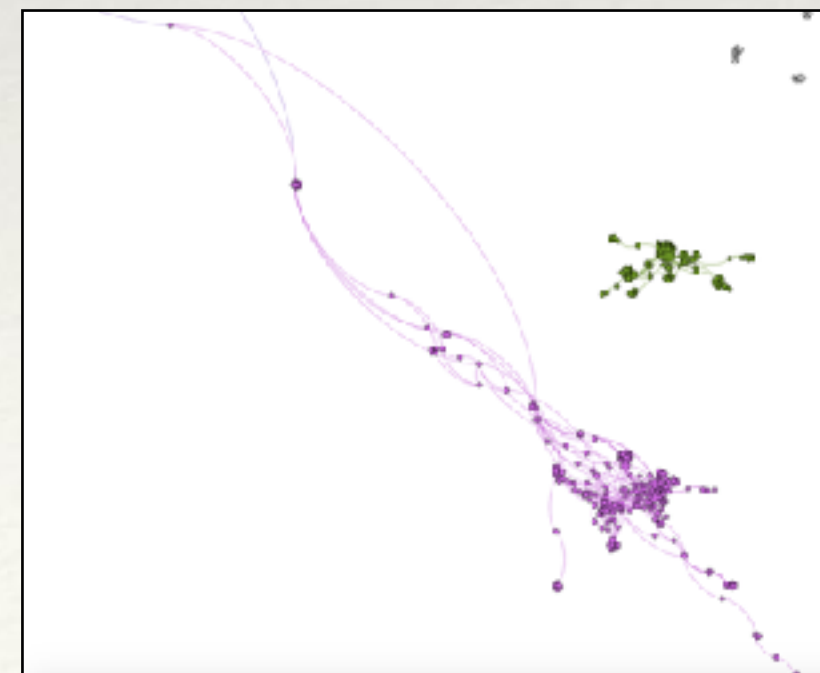


Memory

Cognitive Biases

❖ Cluster 5: 67

❖ Cluster 7: 33



Health

Autism

Disorders

Vaccines

Data Mining

Neural Networks

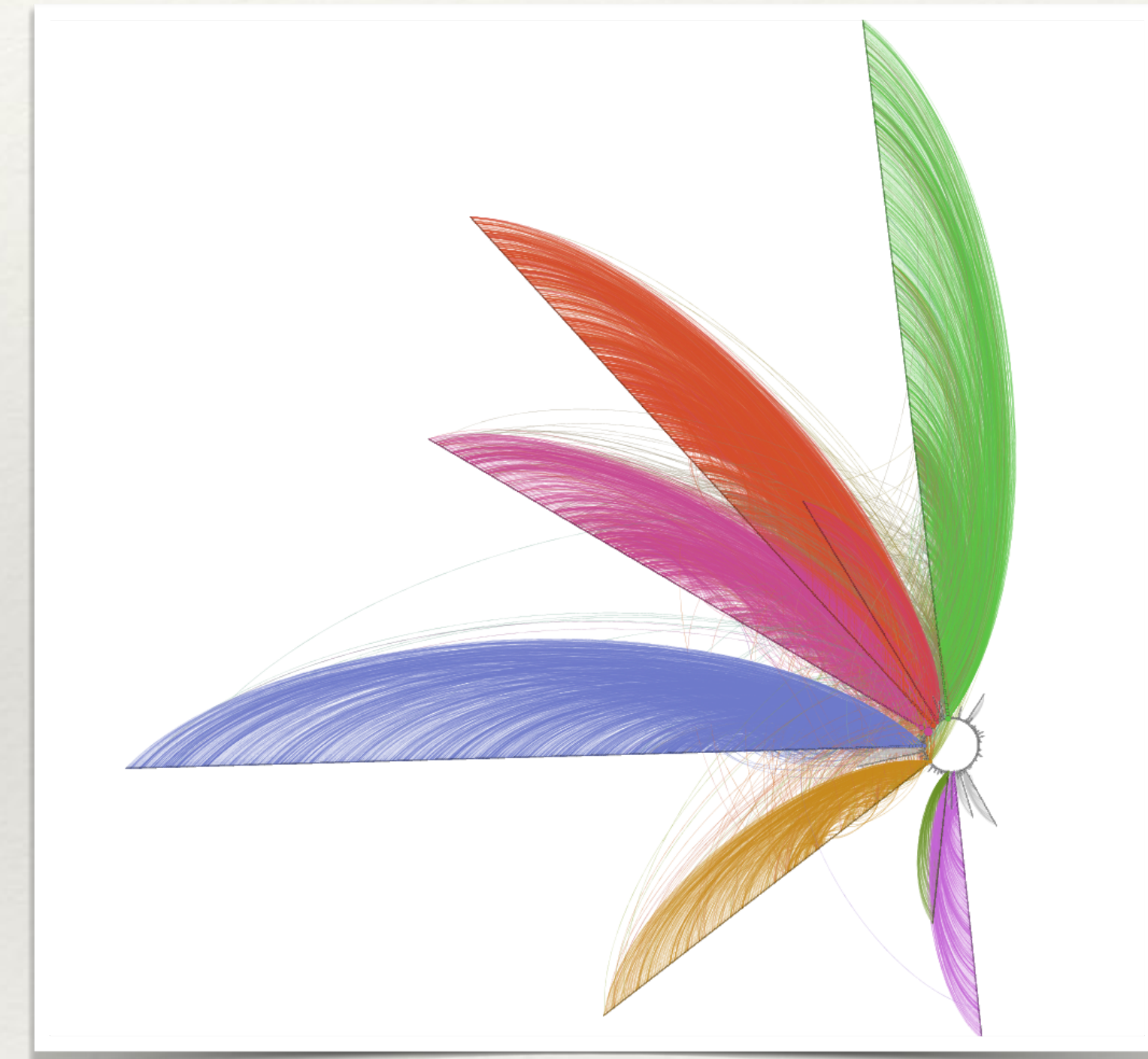
Spreading

Fact-checking

Networks

Social media data

Elections



Search and research

- ❖ Citation analysis allows us to identify 'relevant' papers according different metrics: in-degree, betweenness, page rank, hub / authority score
- ❖ We embedded these sorting criteria in our 'fakenewsresearch' search engine



Search and research

- ❖ Citation analysis allows us to identify 'relevant' papers according different metrics: in-degree, betweenness, page 1
- ❖ We embedded these sorting criteria in

misinformation

Authors
Author...

Years
min max

Citations
min max

Sort by
✓ Citations
Latest
Pagerank
Hub
Authority
Betweenness

Search also in referenced papers Search a

- Advanced Search

Search

889 total results for "misinformation".

The science of fake news

(2018) David M. J. Lazer, Matthew A. Baum, Yochai Benkler, Adam J. Berinsky, Kelly M. Greenhill, Filippo Menczer, Miriam J. Metzger,

Brendan Nyhan, Gordon Pennycook, David Rothschild, Michael Schudson, Steven A. Sloman, Cass R. Sunstein, Emily A. Thorson, Duncan J. Watts, Jonathan L. Zittrain

misinformation internet privacy the internet reading incarnation extant taxon fake news

1819 citations hubs authorities betweenness

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Media violence and the American public: Scientific facts versus media misinformation.

(2001) Brad J. Bushman, Craig A. Anderson

news media news values media relations entertainment industry misinformation public opinion poison control fairness doctrine
media studies social psychology psychology

1024 citations betweenness

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Misinformation and the Currency of Democratic Citizenship

(2000) James H. Kuklinski, Paul J. Quirk, Jennifer Jerit, David Schwieder, Robert F. Rich


misinformation persuasion elite politics public relations currency heuristics political science phenomenon welfare

958 citations authorities betweenness

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Search and research


- ❖ Citation analysis allows us to identify 'important' papers using network metrics: in-degree, betweenness, page rank
- ❖ We embedded these sorting criteria in our search interface

misinformation 

Authors

Author...

Years Citations Sort by


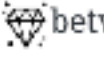
Search also in referenced papers Search also in abstracts

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889 total results for "misinformation".



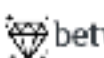
Computational Fact Checking from Knowledge Networks
(2015) Giovanni Luca Ciampaglia, Prashant Shiralkar, Luis Mateus Rocha, Luis Mateus Rocha, Johan Bollen, Filippo Menczer, Alessandro Flammini

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A theoretical review of the misinformation effect: Predictions from an activation-based memory model
(1998) Michael S. Ayers, Lynne M. Reder

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