

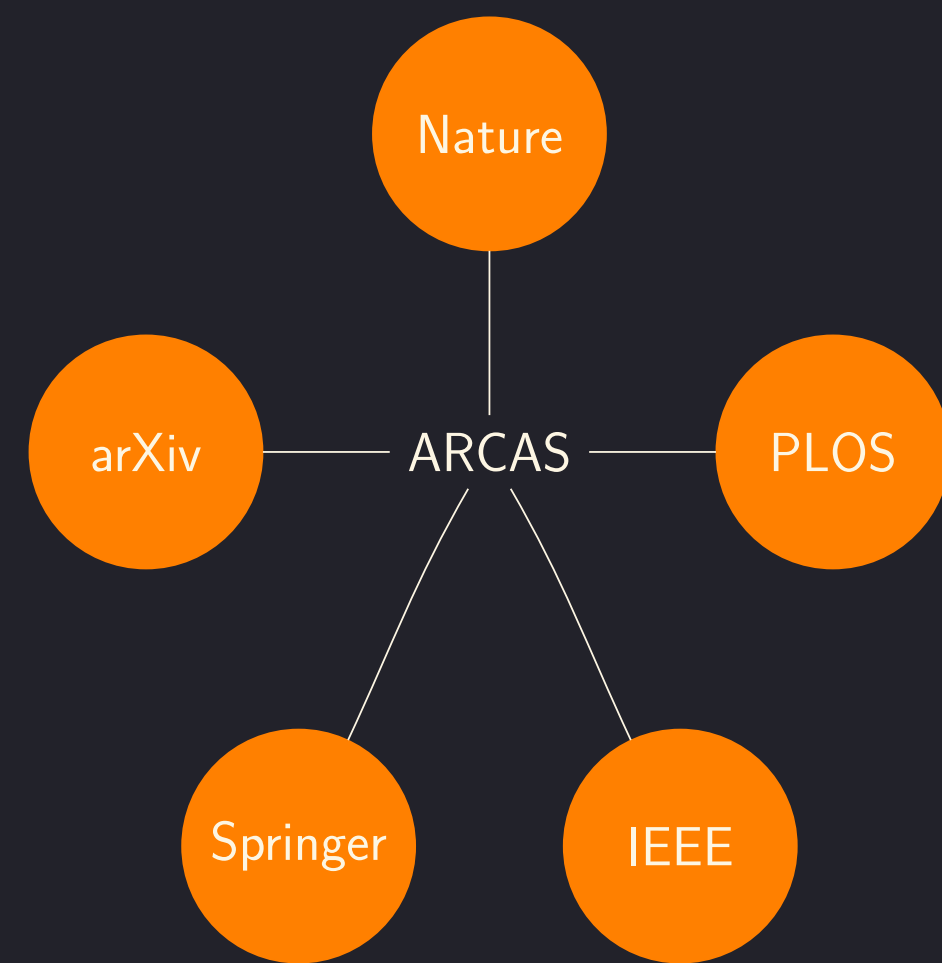


A bibliometric study of the Iterated Prisoner's Dilemma



- ① We collect scholarly data ② We classify abstracts into research topics ③ We explore collaboration using co-authorship

① HOW & FROM WHERE DO WE COLLECT DATA?



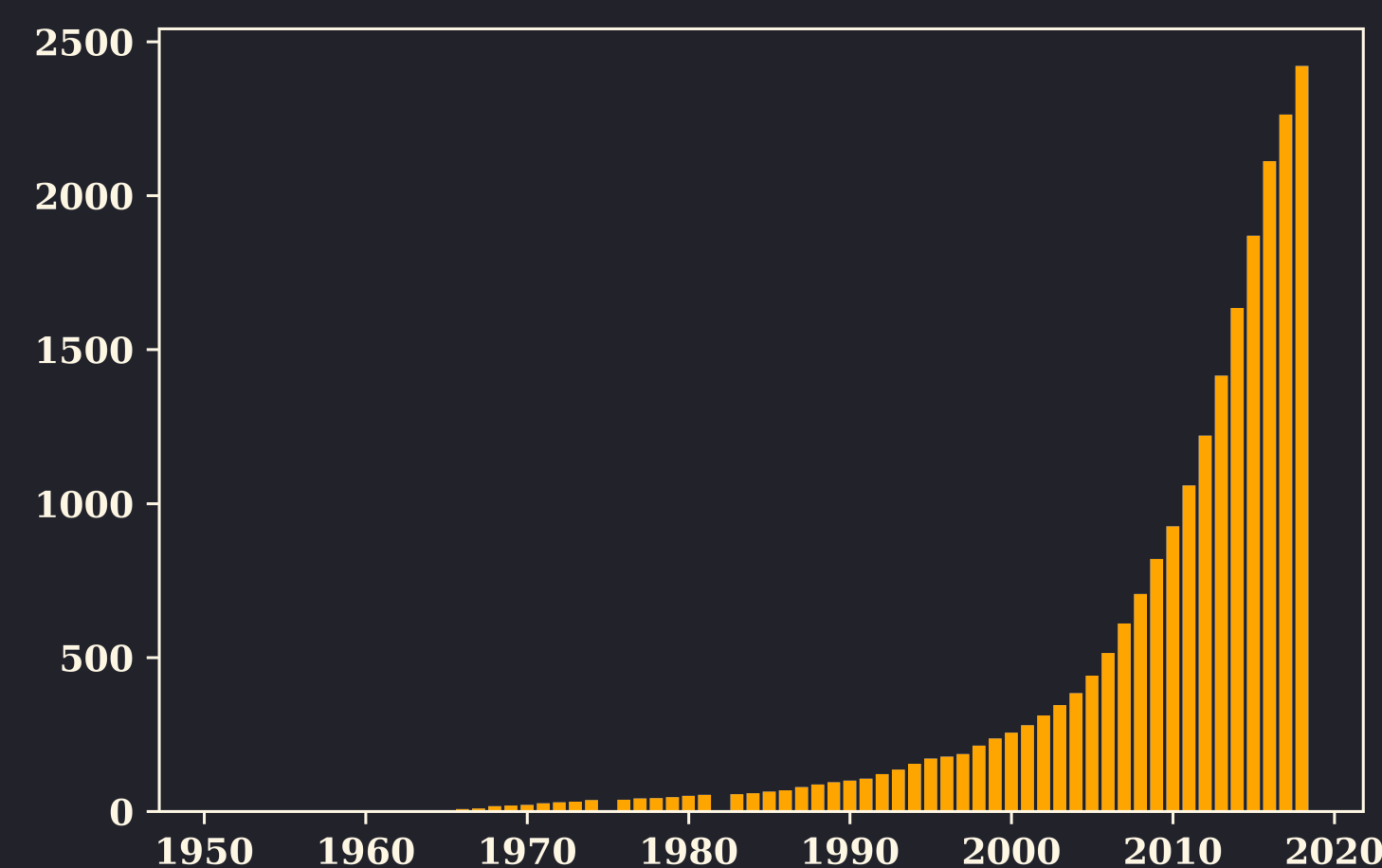
RCAS is an open source tool with which we collect articles' meta-data in a few lines of code

```
>>> import arcas

>>> api = arcas.Arxiv()
>>> params = api.parameters_fix(title="EHBEA",
                                abstract="EHBEA",
                                records=1)

>>> url = api.create_url_search(params)
>>> request = api.make_request(url)
>>> root = api.get_root(request)
>>> raw_article = api.parse(root)
>>> article = api.to_dataframe(raw_article[0])
```

keywords: prisoner's dilemma, prisoners dilemma, prisoner dilemma, prisoners evolution, prisoner game theory
search field: title, abstract, text



② WHAT DO RESEARCHERS WRITE ABOUT?

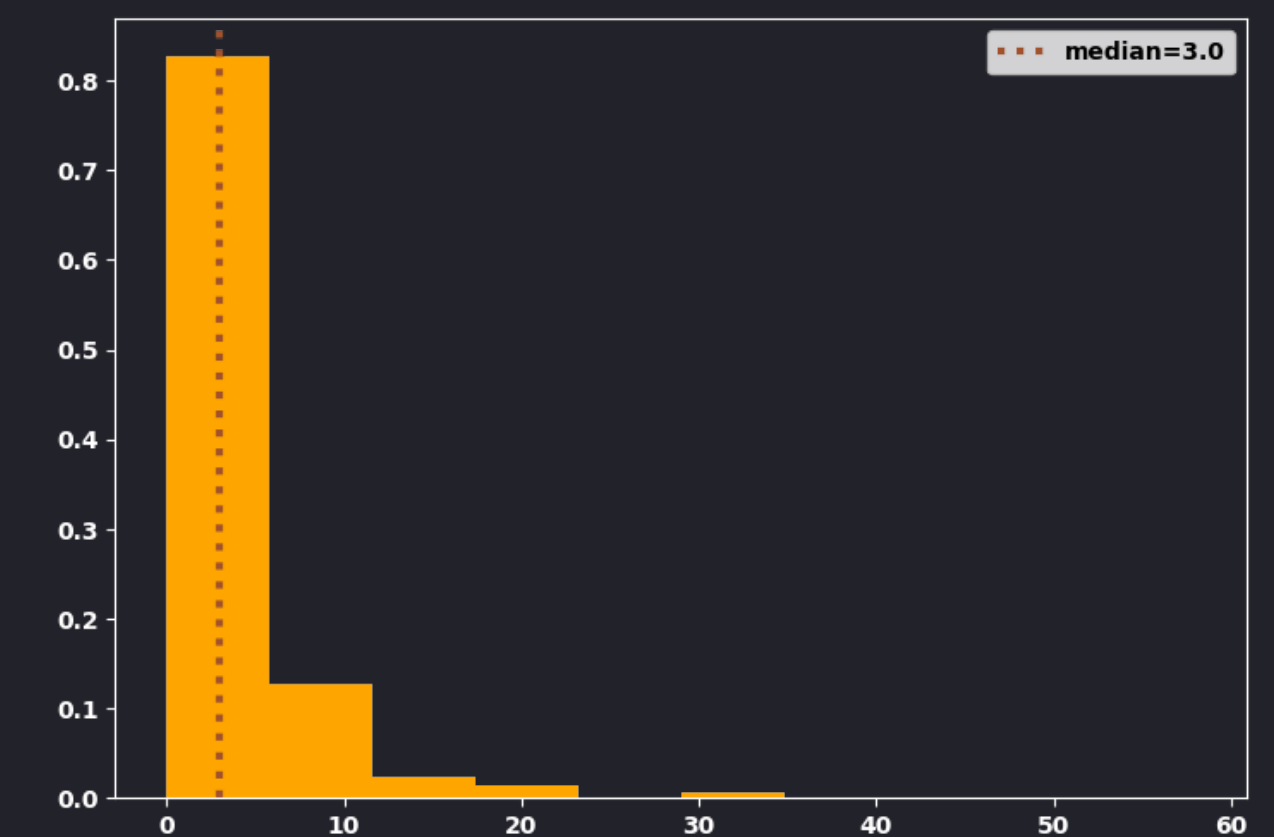
Latent Dirichlet Allocation



$\xrightarrow{\text{LDA}} \mathbb{R}^5 \rightarrow \text{Topic}_i$



IS THE FIELD OF COOPERATION A COOPERATIVE FIELD?



- A
- B
- C