Science analysed with NLP +

PyData Cardiff

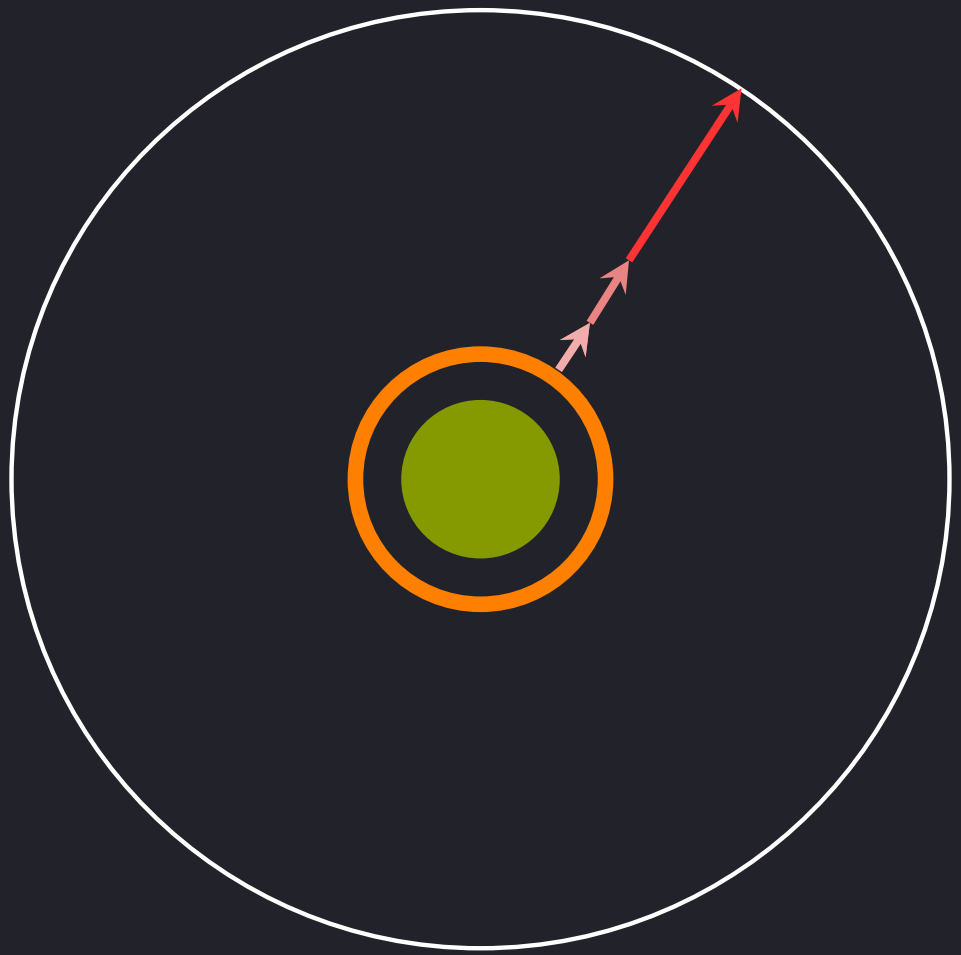
@NikoletaGlyn


CARDIFF
UNIVERSITY
PRIFYSGOL
CAERDYDD


django
girls


Software
Sustainability
Institute


PLOS
Channels



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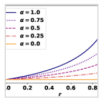
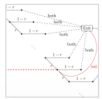
Outline

Figures (7)


ELSEVIER

Ecological Modelling
Volume 389, 10 December 2018, Pages 33-40

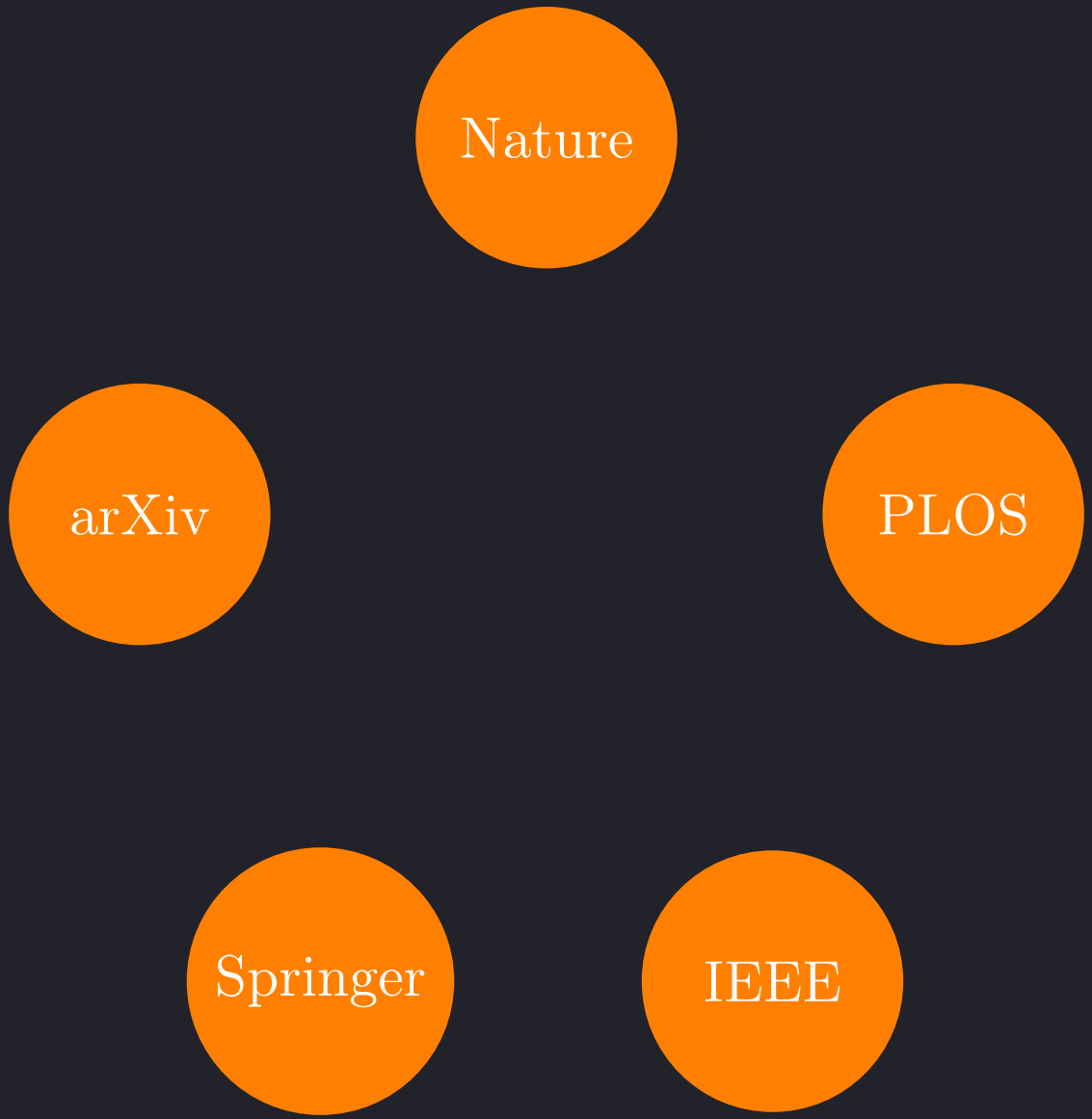
An evolutionary game theoretic model of rhino horn devaluation

Nikoleta E. Glynatsi, Vincent Knight, Tamsin E. Lee

https://doi.org/10.1016/j.ecolmodel.2018.10.003

Abstract

Rhino populations are at a critical level due to the demand for rhino horn and the subsequent poaching. Wildlife managers attempt to secure rhinos with approaches to devalue the horn, the most common of which is dehorning. Game theory has been used to examine the interaction of poachers and wildlife managers where a manager can either 'dehorn' their rhinos or leave the horn attached and poachers may behave 'selectively' or 'indiscriminately'. The approach described in this paper


Nature
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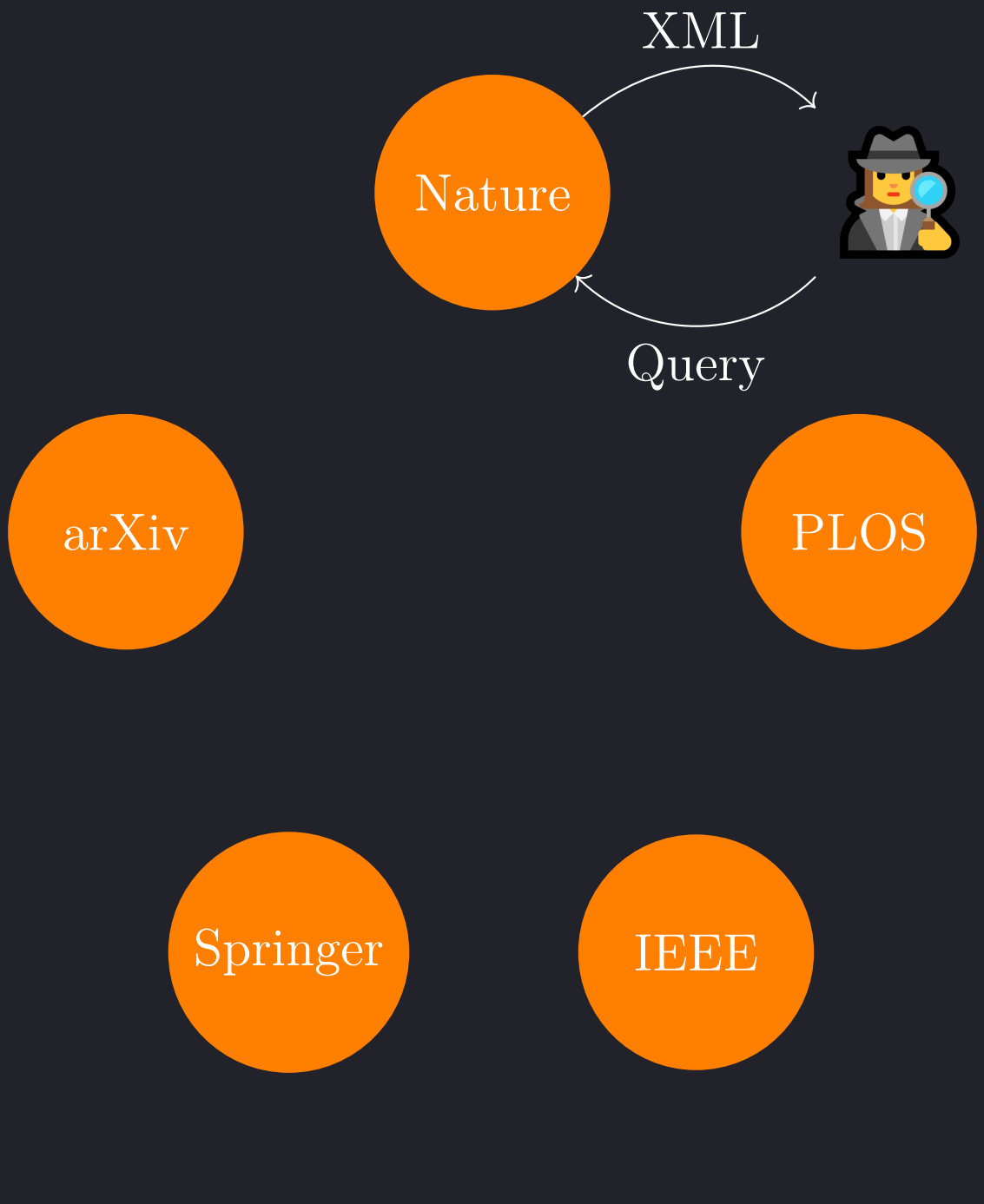
PLOS
Springer
IEEE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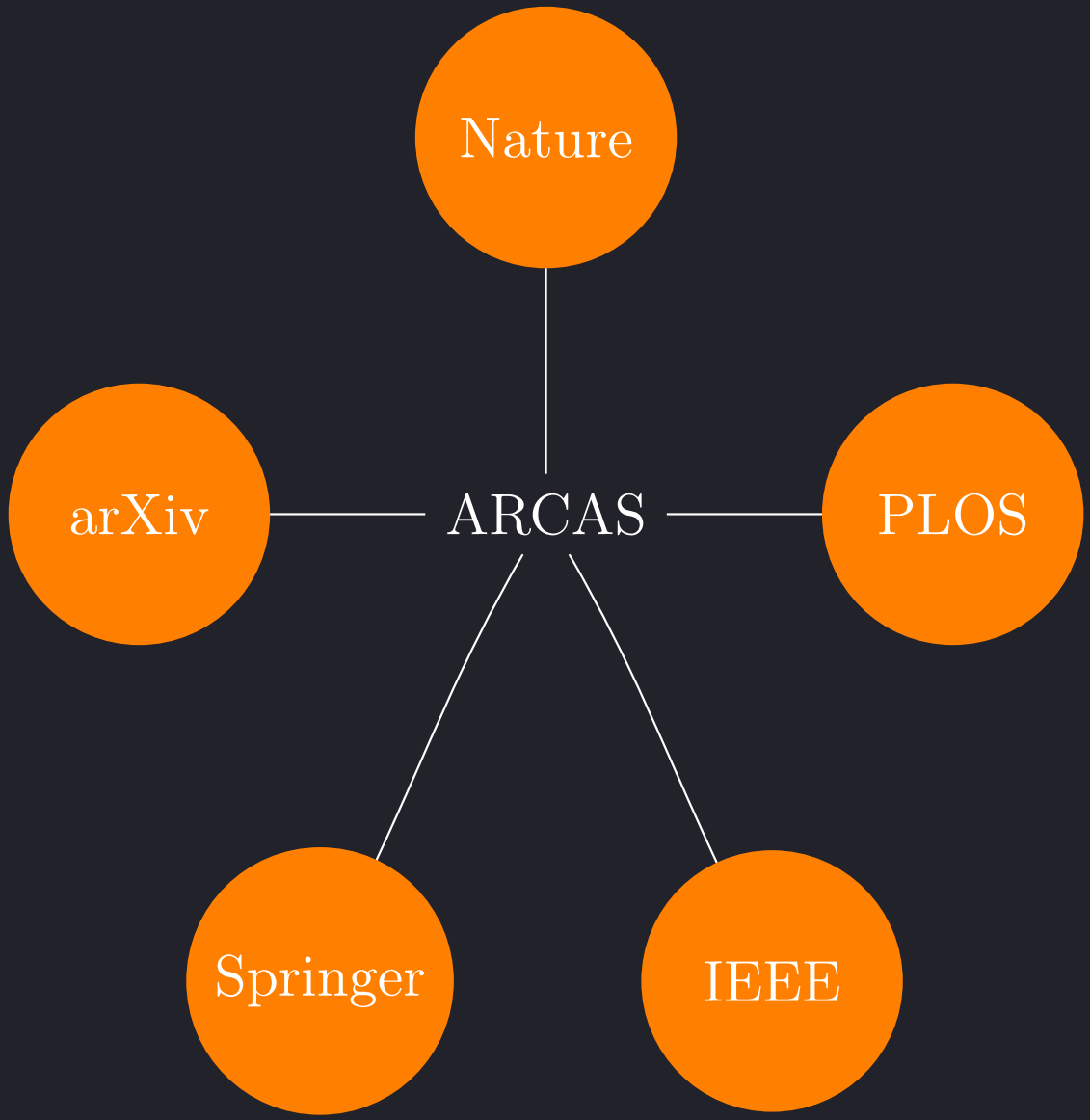
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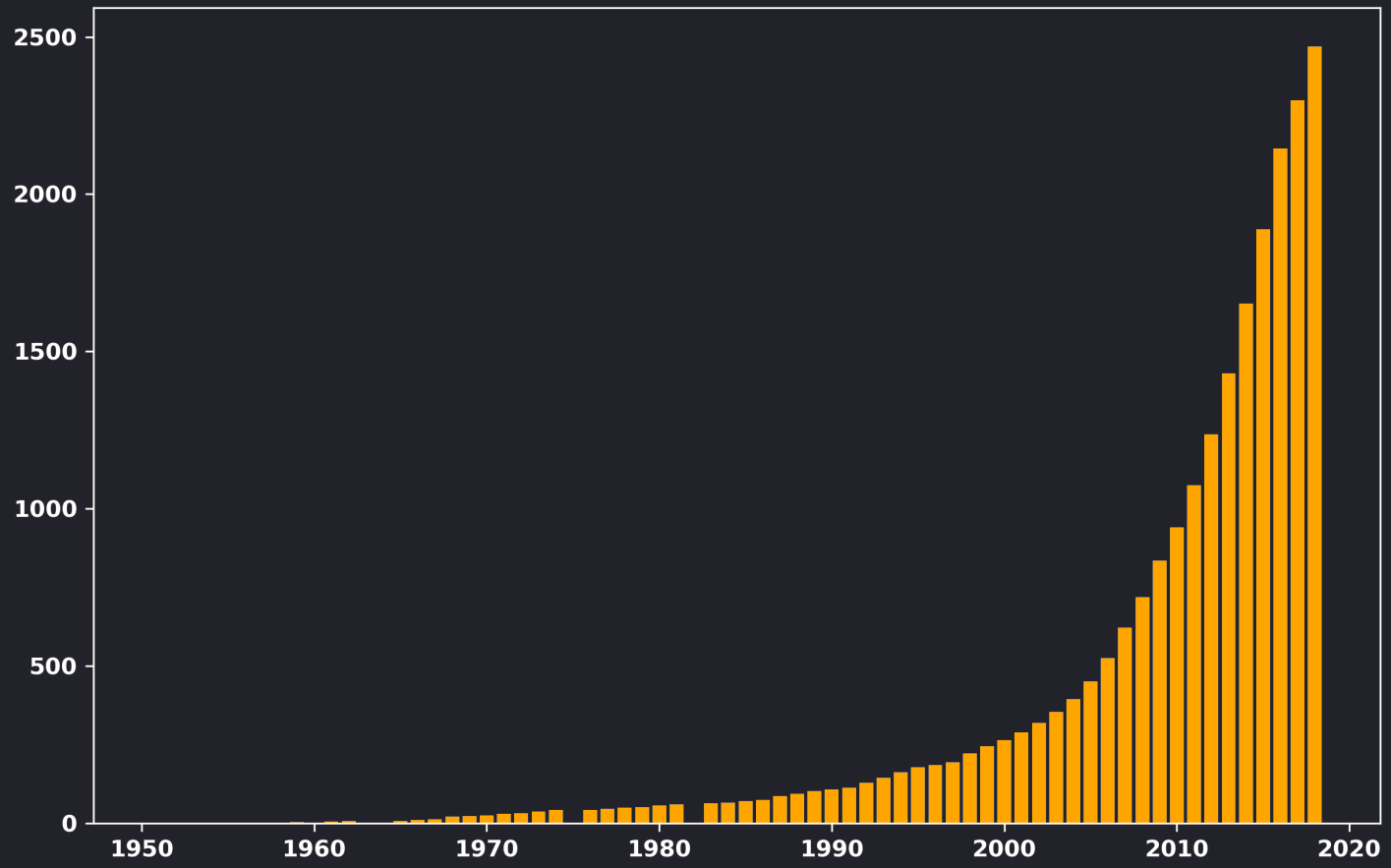
ARCAS
PLOS
Springer
IEEE

$ pip install arcas

https://nikoleta-v3.github.io/2019/06/women-publications-in-mathematics.html

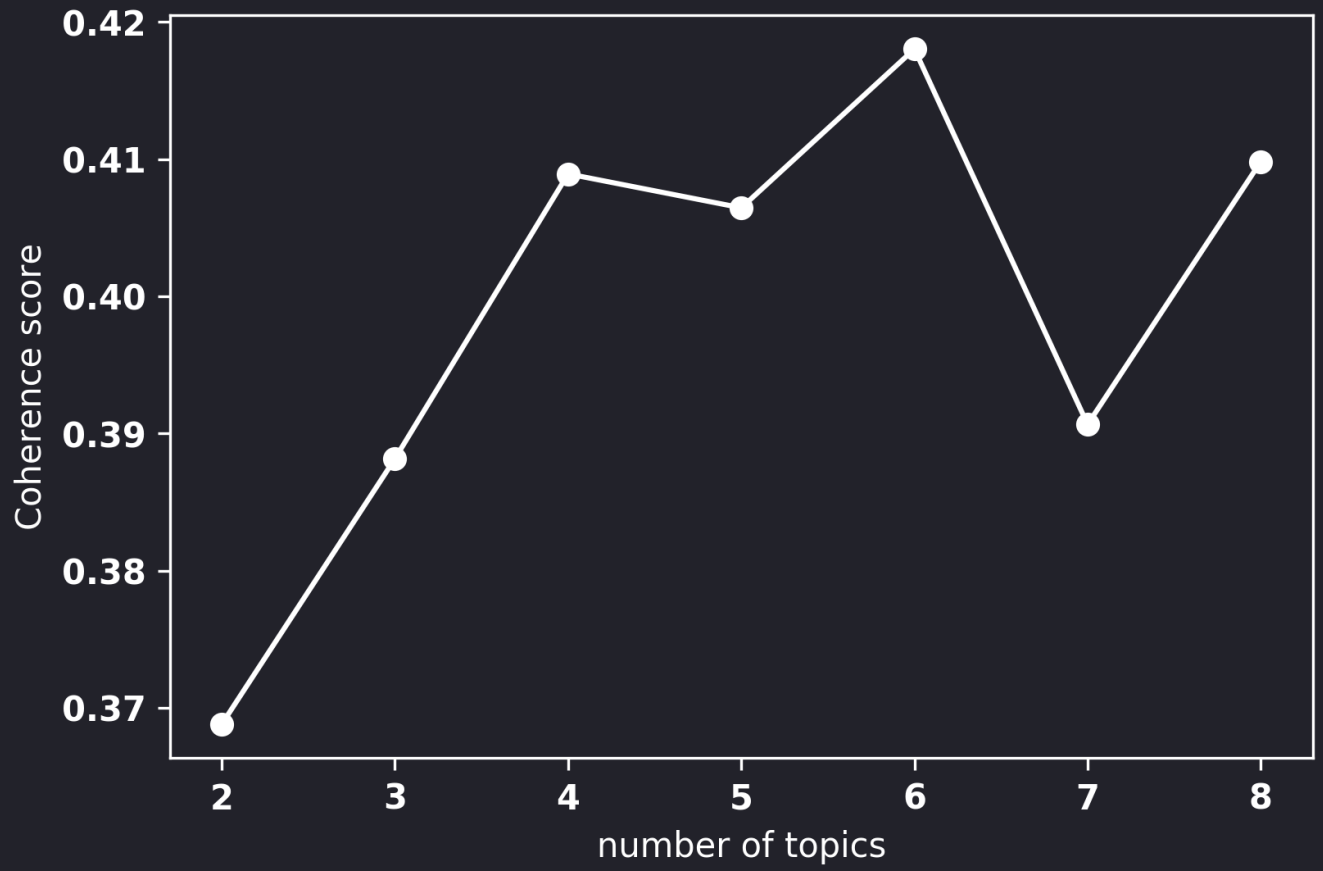
title="prisoner's dilemma" AND abstract="prisoner's dilemma"



What do people write about on field of the Prisoner's Dilemma?

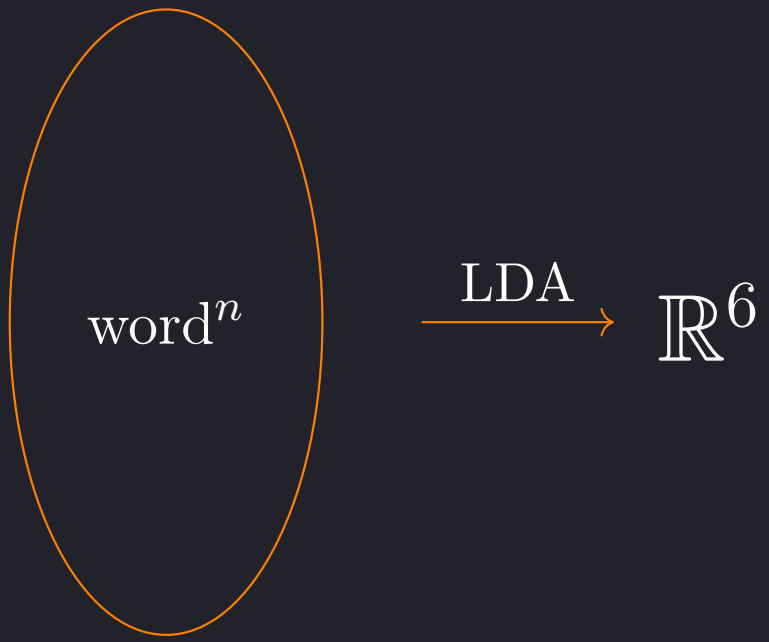
Latent Dirichlet allocation

	Topic 1	Topic 2
"game"	0.200	0.220
"agent"	0.009	0.008
"network"	0.011	0.012
"strategy"	0.007	0.028
"population"	-	0.009
"social"	0.009	-

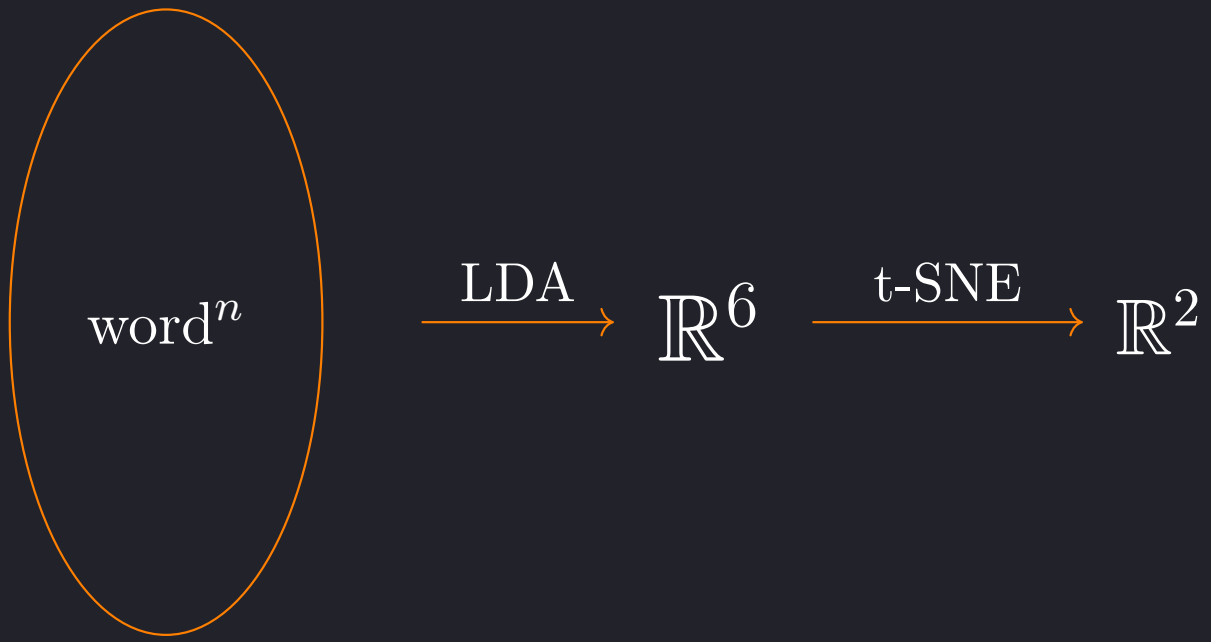

0.42
0.41
0.40
0.39
0.38
0.37
Coherence score
2
3
4
5
6
7
8
number of topics

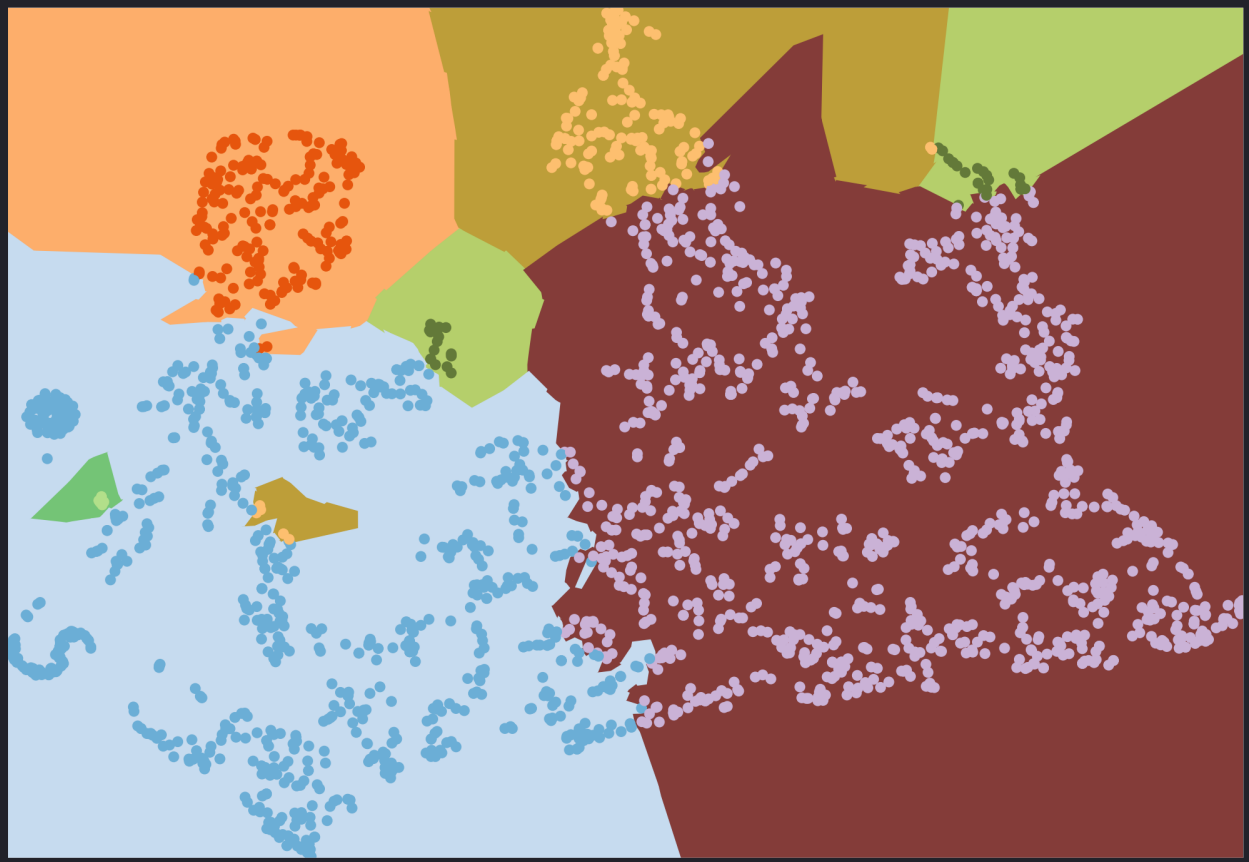
English Language

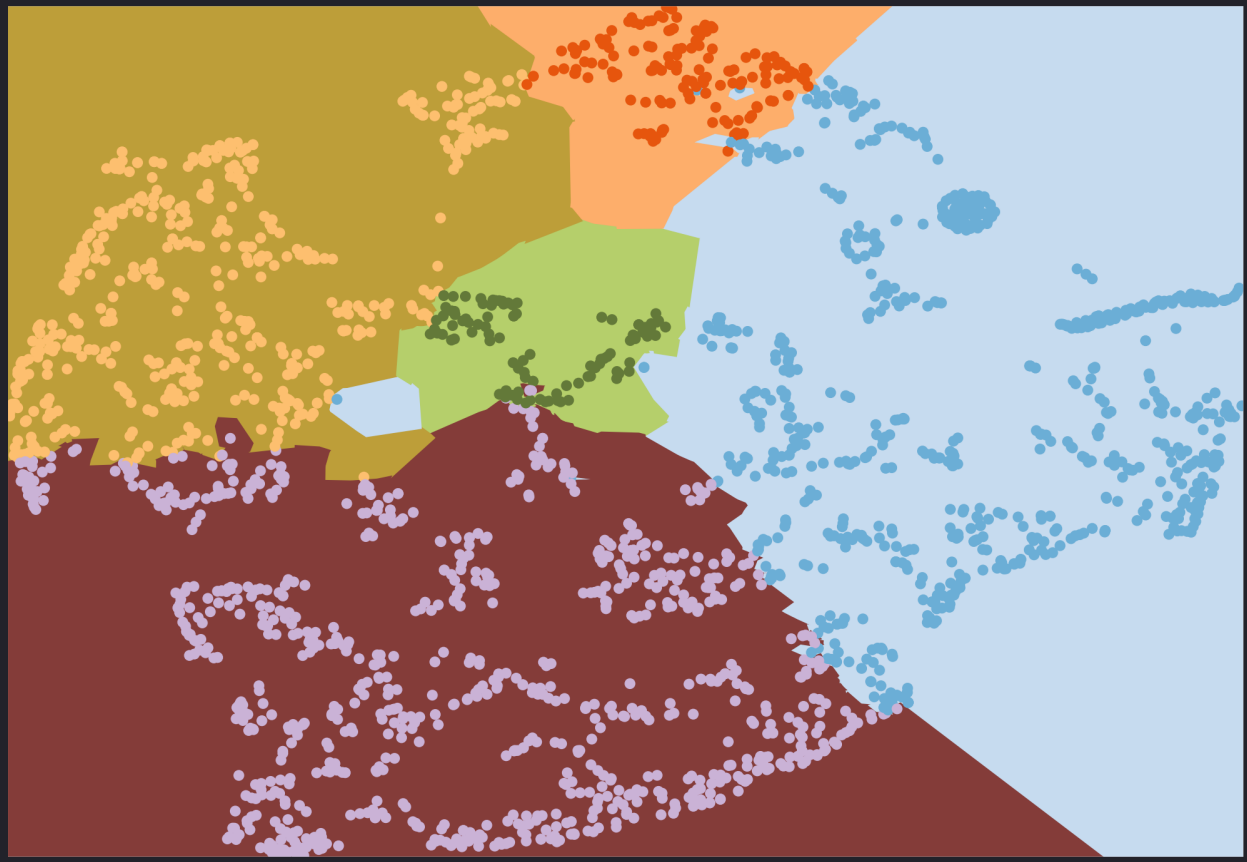
English Language

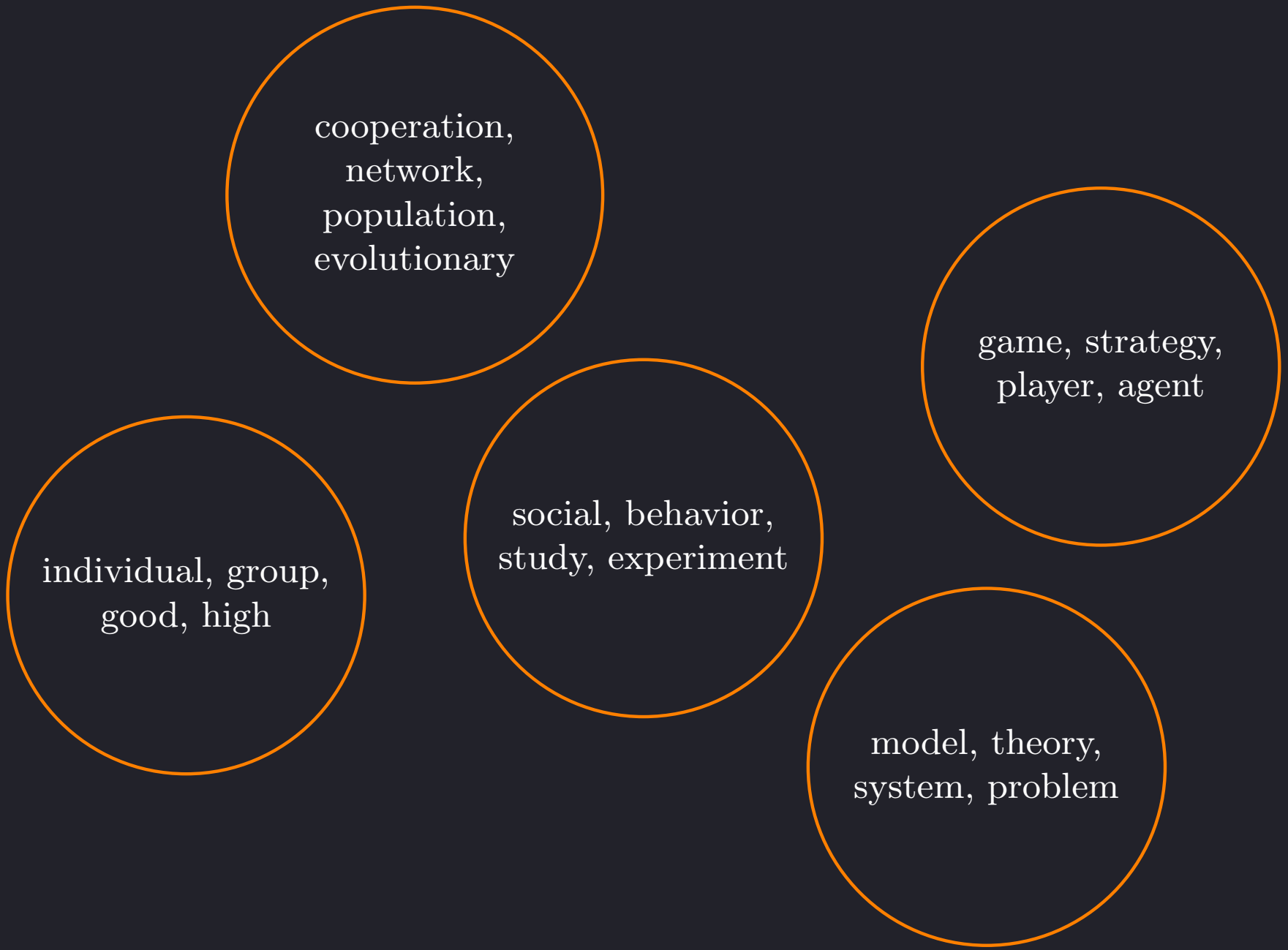


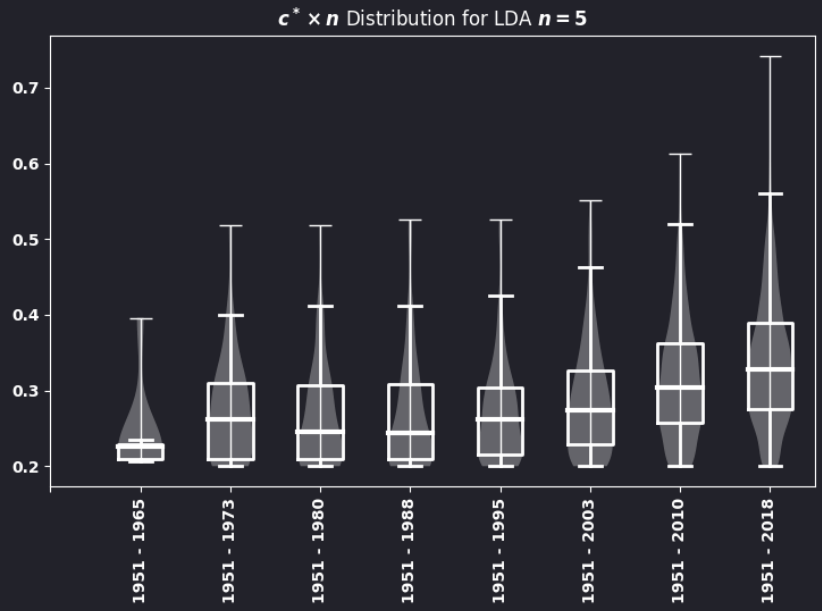
English Language

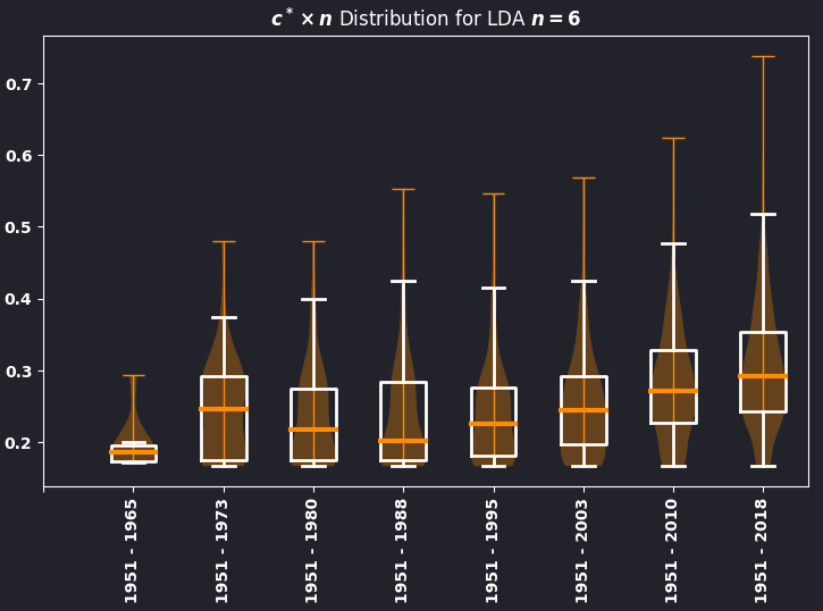


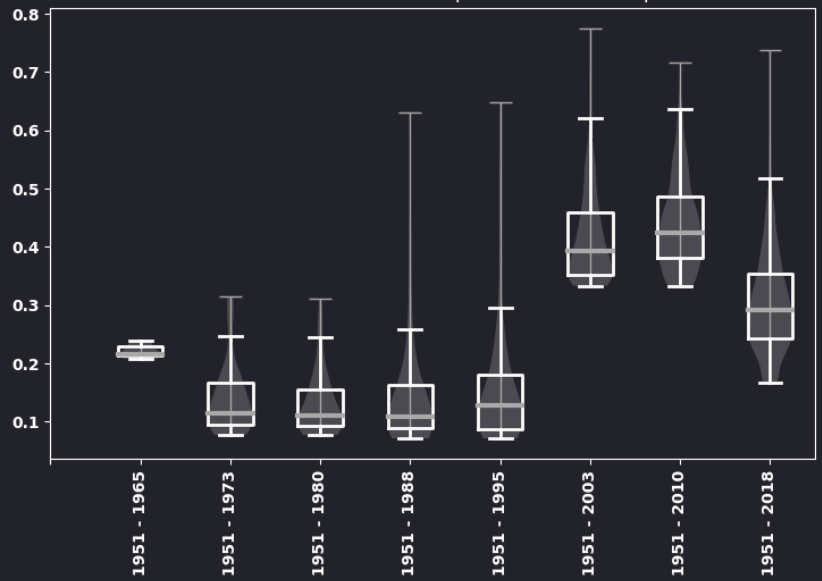


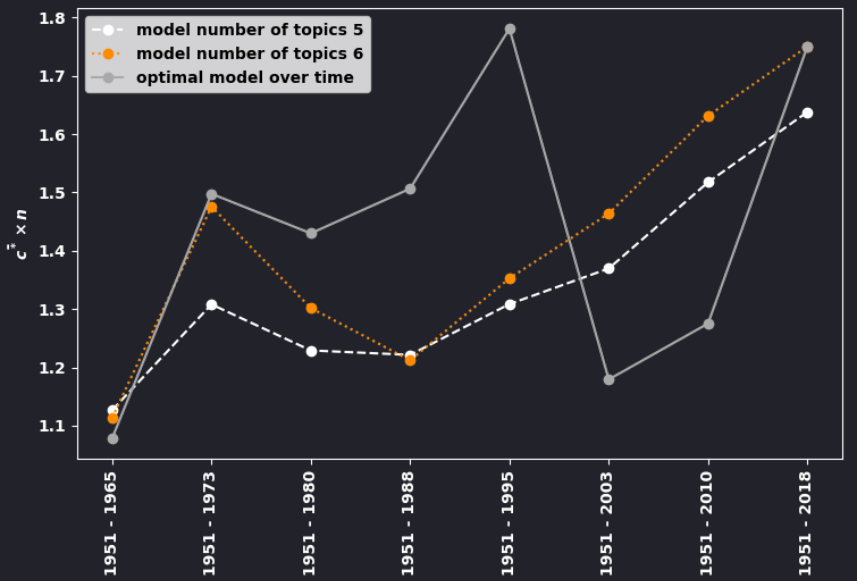



cooperation, network, population, evolutionary
game, strategy, player, agent
social, behavior, study, experiment
individual, group, good, high
model, theory, system, problem

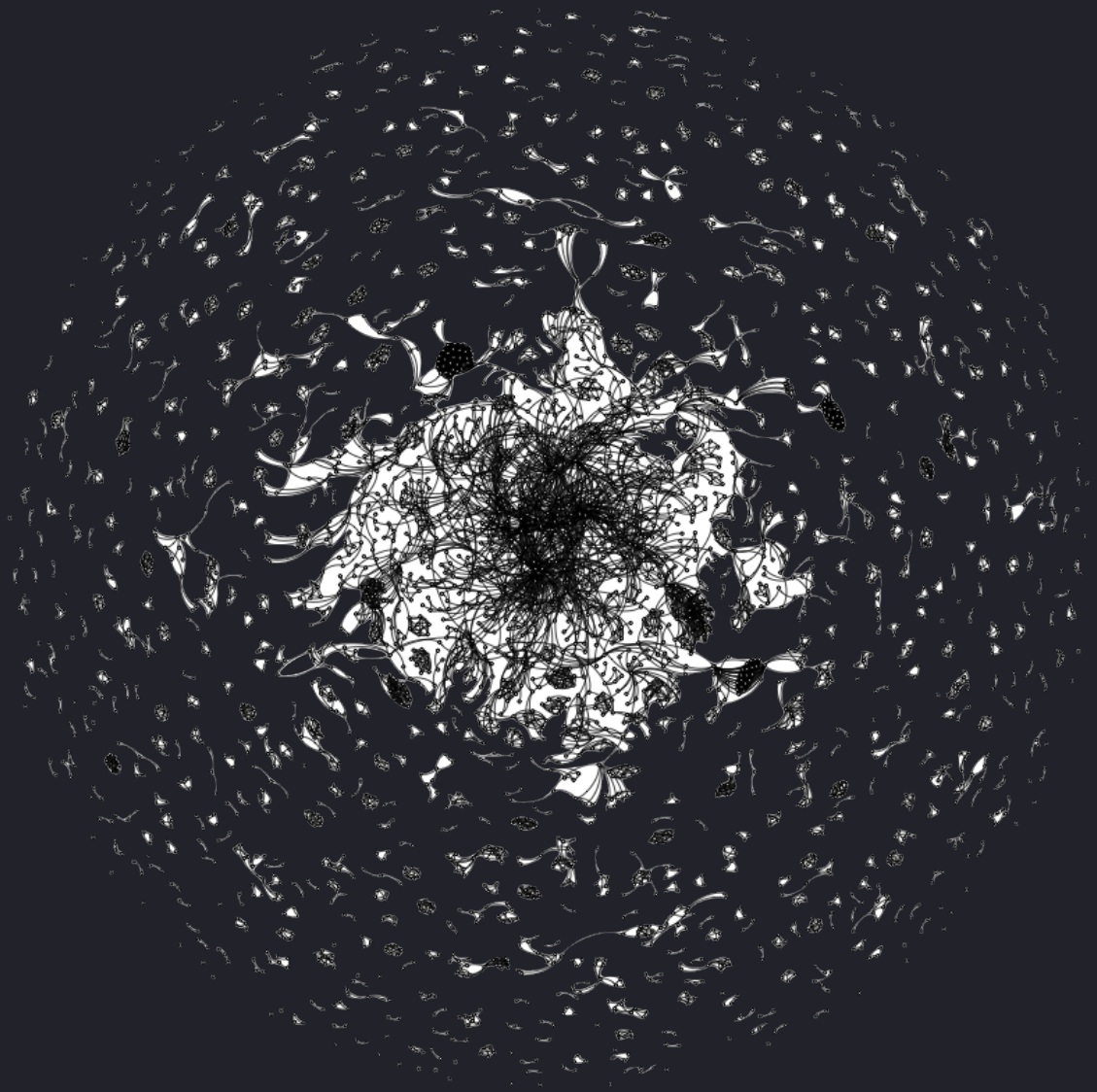

$c^* \times n$ Distribution for LDA $n = 5$
0.7
0.6
0.5
0.4
0.3
0.2
1951 - 1965
1951 - 1973
1951 - 1980
1951 - 1988
1951 - 1995
1951 - 2003
1951 - 2010
1951 - 2018

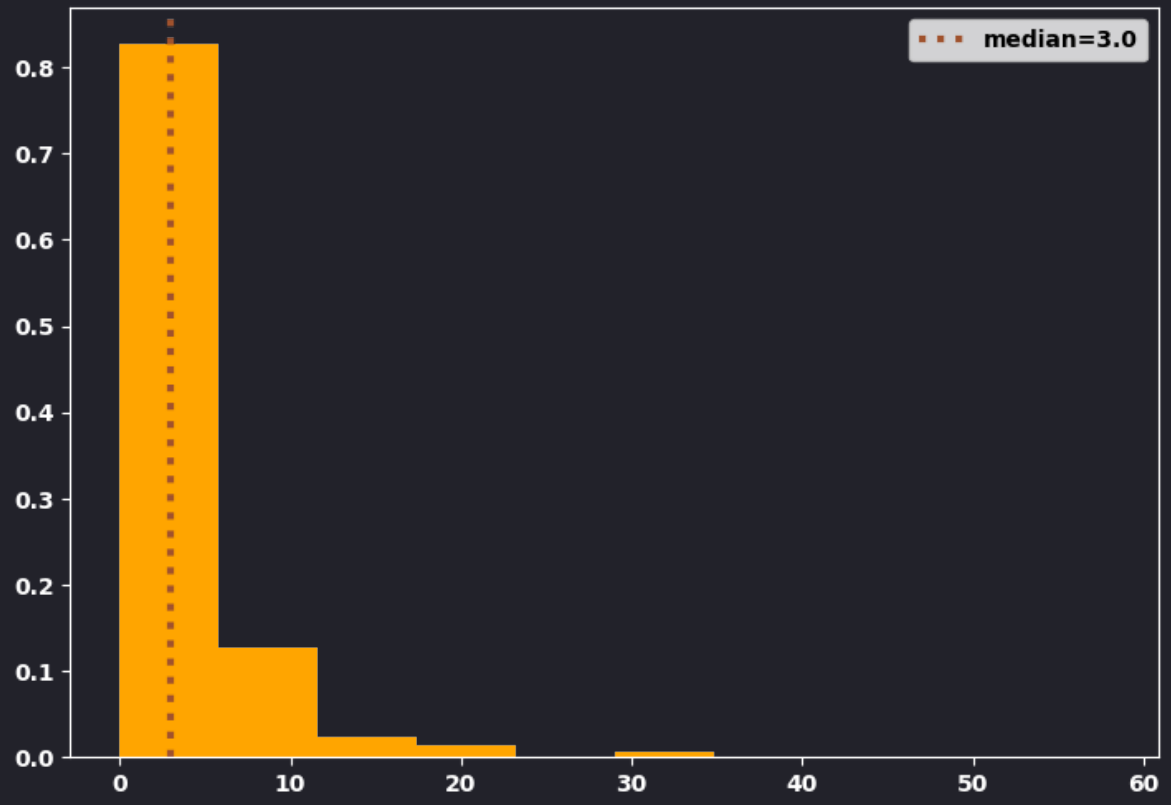

$c^* \times n$ Distribution for LDA $n = 6$
0.7
0.6
0.5
0.4
0.3
0.2
1951 - 1965
1951 - 1973
1951 - 1980
1951 - 1988
1951 - 1995
1951 - 2003
1951 - 2010
1951 - 2018


$c^* \times n$ Distribution for LDA optimal number of topics
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
1951 - 1965
1951 - 1973
1951 - 1980
1951 - 1988
1951 - 1995
1951 - 2003
1951 - 2010
1951 - 2018


$\bar{c}^* \times n$ for LDA models
model number of topics 5
model number of topics 6
optimal model over time
$\bar{c}^* \times n$
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1951 - 1965
1951 - 1973
1951 - 1980
1951 - 1988
1951 - 1995
1951 - 2003
1951 - 2010
1951 - 2018

Is the Prisoner's Dilemma a collaborative field?




median=3.0
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0
10
20
30
40
50
60

“A bibliometric study of research topics, collaboration and influence in the field of the Iterated Prisoner’s Dilemma"

Nikoleta E. Glynatsi, Vincent A. Knight

https://arxiv.org/abs/1911.06128

@NikoletaGlyn

@drvinceknight

- https://nikoleta-v3.github.io
- https://arxiv.org/abs/1911.06128

https://github.com/Nikoleta-v3/bibliometric-study-of-the-prisoners-dilemma

https://github.com/ArcasProject/Arcas

- https://nikoleta-v3.github.io/2019/06/women-publications-in-mathematics.html
- http://iltabiai.github.io