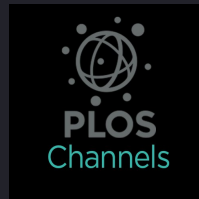
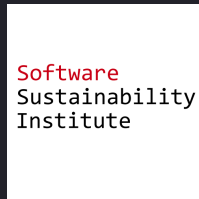
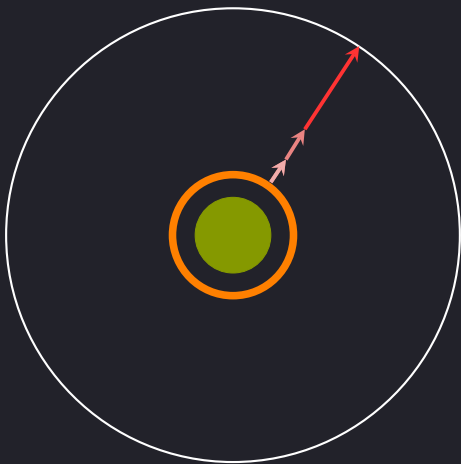


# Science analysed with NLP +

PyData Cardiff

@NikoletaGlyn





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## Outline

Abstract

Keywords

1. Introduction

2. The utility model

3. Evolutionary stability

4. Discussion and conclusions

Authors' contributions

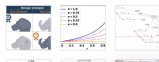
Conflicts of interest

Data accessibility

Acknowledgements

References

## Figures (7)



## 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

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

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## 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

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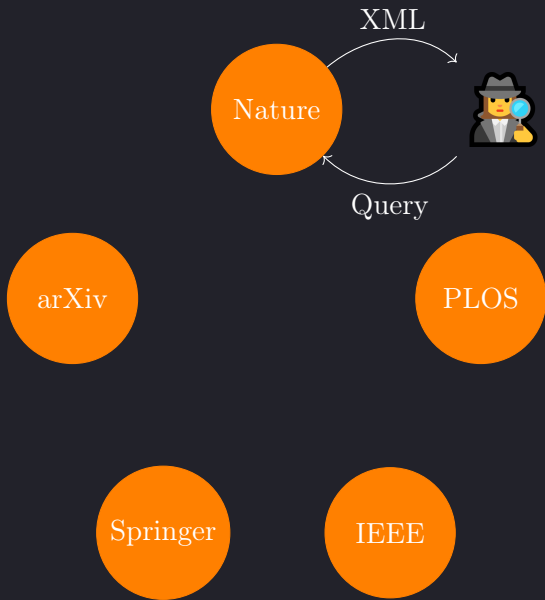
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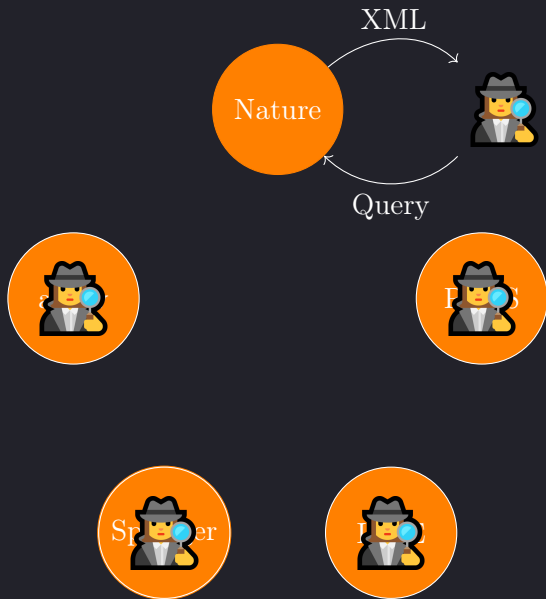
arXiv

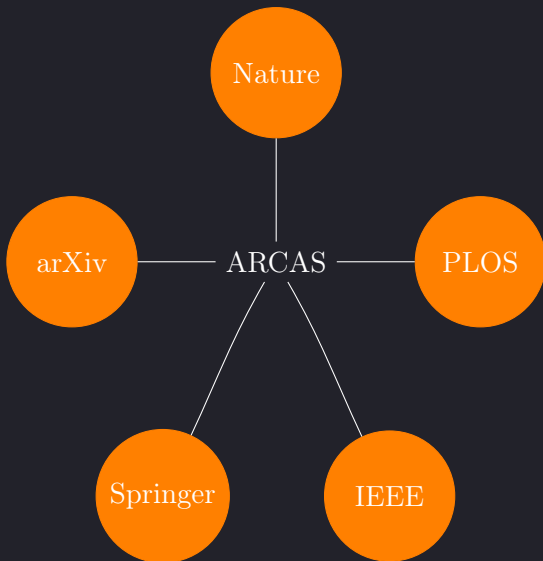
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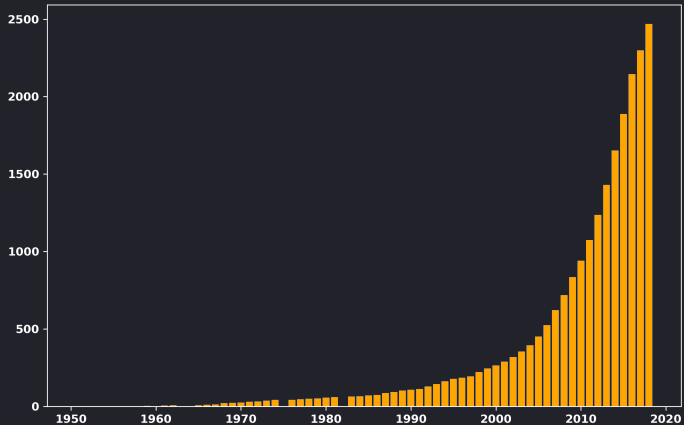




```
$ pip install arcas
```

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

title="prisoner's dilemma" OR 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"	-	0.008
"social"	0.010	-

abstract = “The social network of agents”

abstract = “The social network of agents”

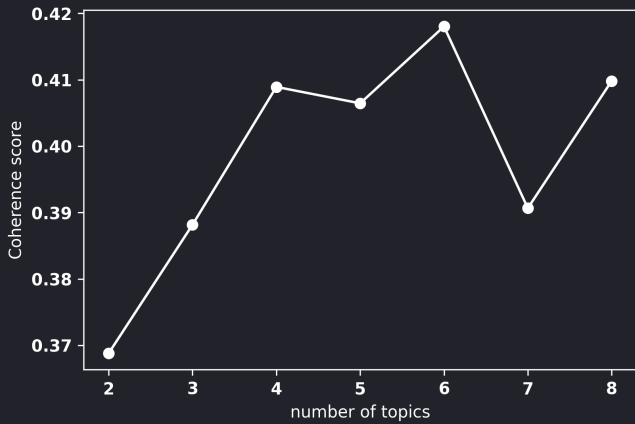
$$c^1 = 0.009 + 0.011 + 0.010 = 0.30$$

$$c^2 = 0.008 + 0.012 = 0.20$$





$[0.3, 0.2]$







$$\xrightarrow{\text{LDA}} \mathbb{R}^5$$



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



A diagram consisting of five orange-outlined circles arranged in a pentagonal pattern on a dark blue background. Each circle contains a set of related terms in white text. The circles are interconnected by thin, light blue lines forming a network.

cooperation,  
network,  
population,  
evolutionary

game, strategy,  
player, agent

individual, group,  
good, high

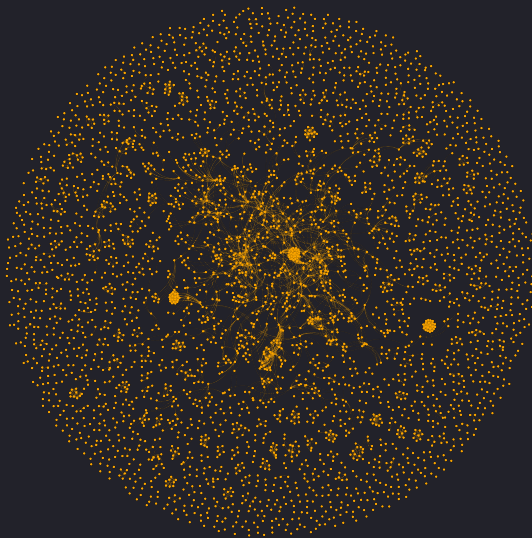
social, behavior,  
study, experiment

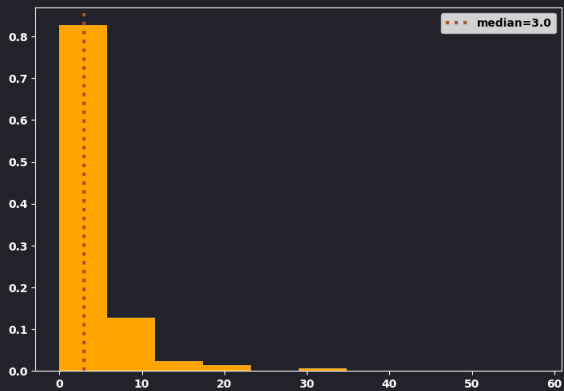
model, theory,  
system, problem

# Is the Prisoner's Dilemma a collaborative field?












"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>
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bibliometric-study-of-the-prisoners-dilemma](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](https://nikoleta-v3.github.io/2019/06/women-publications-in-mathematics.html)
- <http://iltabiai.github.io>