

The Title Here

Haluk O. Bingol

Dept. of Computer Engineering
Bogazici University
Istanbul, Turkey

Meeting, City, Feb. 23, 2017

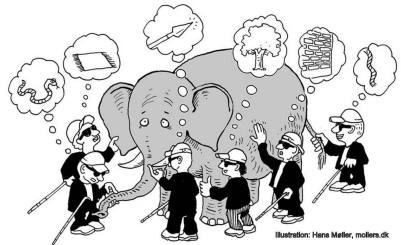
Outline

Section A

Section B

Subsection B

References



[[https://en.wikipedia.org/wiki/
Blind_men_and_an_elephant](https://en.wikipedia.org/wiki/Blind_men_and_an_elephant)]

Section A

Aaaaa

A2222

Bbbbb

▶ Ccccc dddd ccccc

▶ Eeee

Section B

[Cetin and Bingol, The dose of the threat makes the resistance for cooperation,
Advances in Complex Systems (accepted), 2017. arXiv:1605.08682]

A sample of overlay slides

Single slide definition creates two slides

- ▶ N : Number of agents
- ▶ Aaaaa $\binom{N}{2}$ pairs

A sample of overlay slides

Single slide definition creates two slides

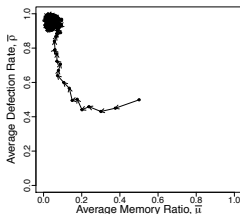
- ▶ N : Number of agents
- ▶ Aaaaa $\binom{N}{2}$ pairs

Agent i

- ▶ M_i : Memory size of i
- ▶ $\mu_i = \frac{M_i}{N}$: Memory ratio of i
- ▶ ρ_i : Probability of defection of i

2-column follows 1-column

Aaaaa



Right column

Agent i

- ▶ M_i : Memory size of i
- ▶ $\mu_i = \frac{M_i}{N}$: Memory ratio of i

1-column here Note that: $\mu_i, \rho_i \in [0, 1]$

- ▶ Visualization of i as (μ_i, ρ_i)
- ▶ Visualization of population as as $(\bar{\mu}, \bar{\rho})$
 - ▶ $\bar{\mu} = \frac{1}{N} \sum_{i=1}^N \mu_i$

Simulations

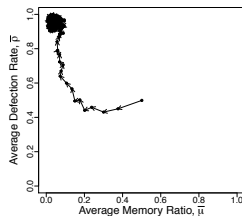
Ttttt ttttt

T2222 2222

Aaaaa

- ▶ Bbbbb cccc cccc
 - ▶ dddd
 - ▶ eeee
- ▶ Fffff gggg
 - ▶ hhhh
 - ▶ jjjj

Kkkk



Take home message

- ▶ Aaaaa
- ▶ Bbbbb
 - ▶ B-cccc
 - ▶ B-dddd
- ▶ Eeeee

References

Threat Game

- ▶ Cetin and Bingol, **The Dose of the Threat Makes the Resistance for Cooperation**, *Advances in Complex Systems*, (accepted) 2017.
arXiv:1605.08682

Attention Game

- ▶ Cetin and Bingol, **Iterated Prisoners Dilemma with limited attention**, *Condensed Matter Physics*, **17**, 33001, 2014.
DOI:10.5488/CMP.17.33001 arXiv:1405.0343

Fame Game

- ▶ Cetin and Bingol, **Attention competition with advertisement**, *Phys. Rev. E*, **90**, 032801, 2014.
DOI: 10.1103/PhysRevE.90.032801 arXiv:1211.0156
- ▶ Bingol, **Fame emerges as a result of small memory**, *Phys. Rev. E*, **77**, 036118, 2008.
DOI: 10.1103/PhysRevE.77.036118 arXiv:nlin/0609033