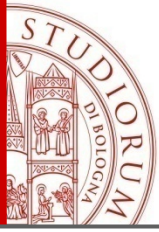


Side info

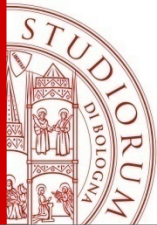
- Next WednesdAIs
 - 17/06/2020
 - The right AIs for the rights of citizens
 - 01/07/2020
 - AIs, lawyers, and judges
 - 15/07/2020
 - Well done AI! Indeed, *optimally* done!
 - 16/9/2020
 - Law as code. AIs as legislator?
 - 30/9/2020
 - Explicable-me. Are good AIs the one we understand?



Side info

- Seminars' material and dates

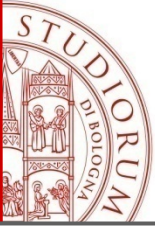
alma-ai.unibo.it



10/06/2020

AI'S MANY POWERS

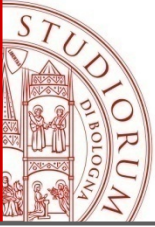
THE FASCINATING RELATIONSHIP BETWEEN AI AND ENERGY



Energy and intelligence??

James C. Maxwell

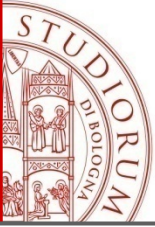




Energy and intelligence??

James C. Maxwell



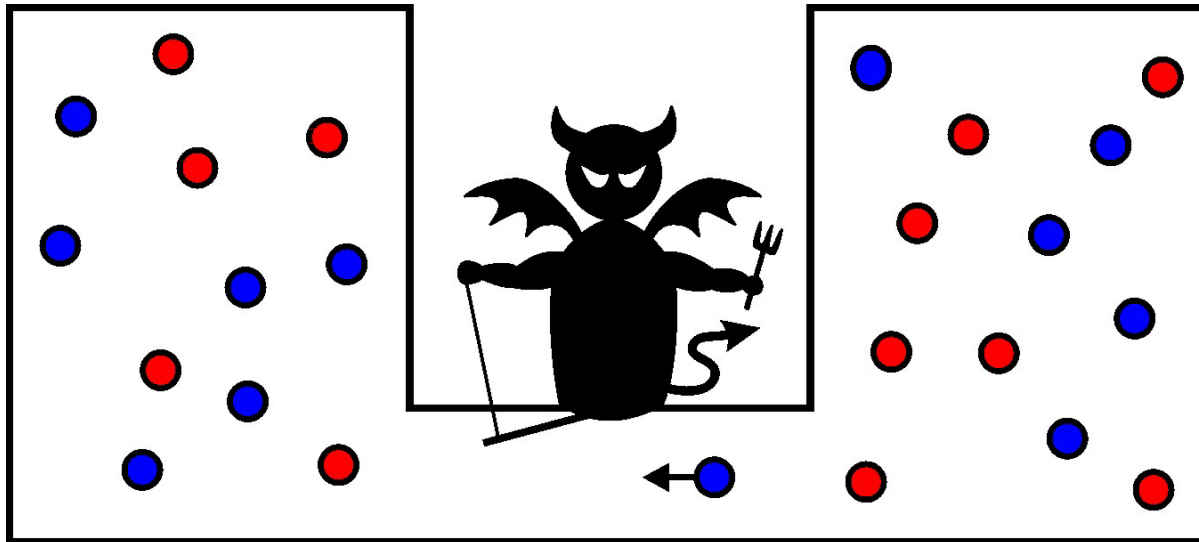


Energy and intelligence??

James C. Maxwell

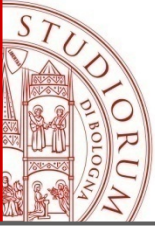


Energy and intelligence??



James C. Maxwell



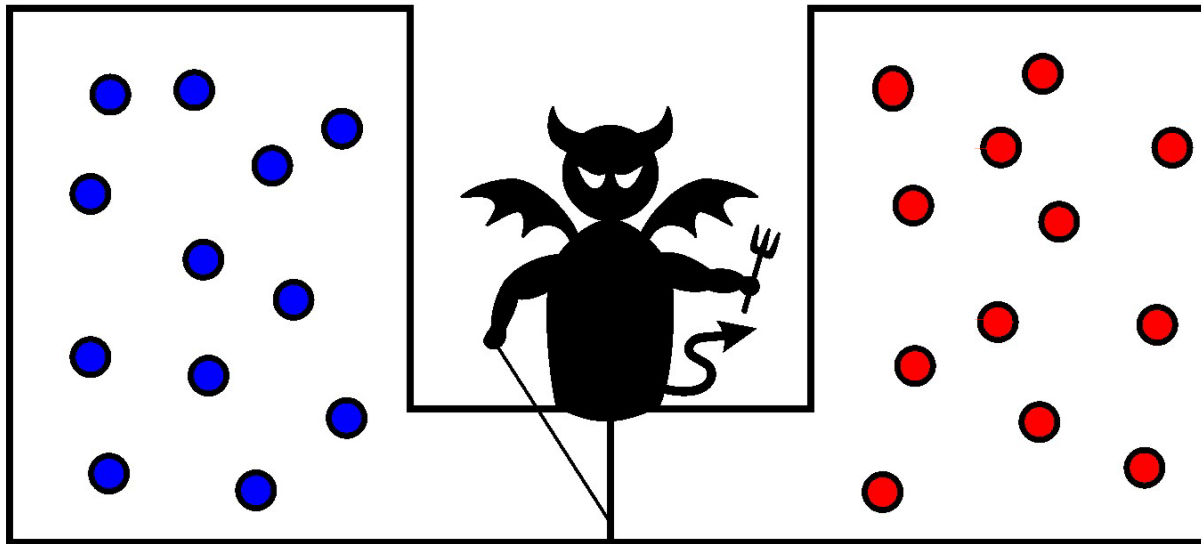


Energy and intelligence??

James C. Maxwell



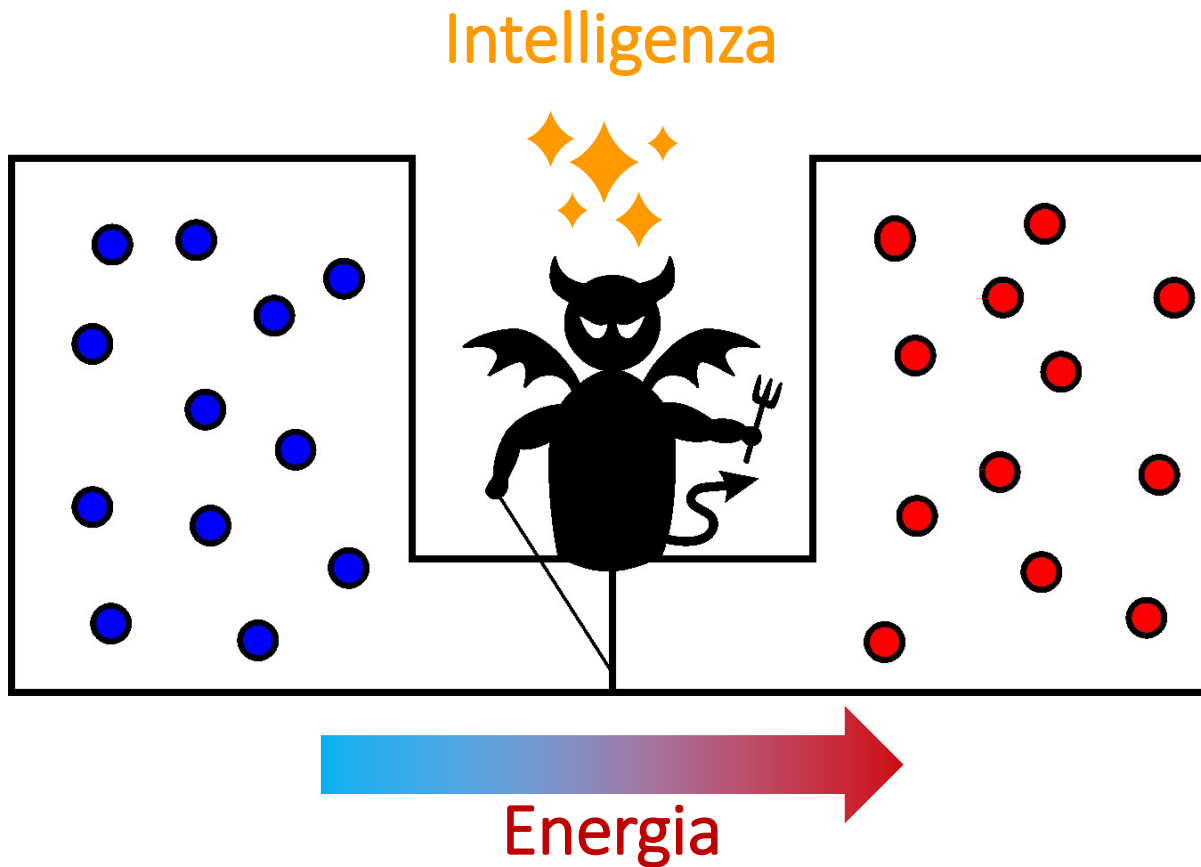
Energy and intelligence??



James C. Maxwell



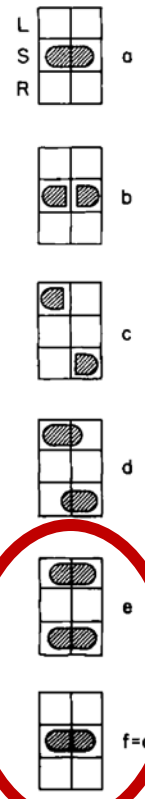
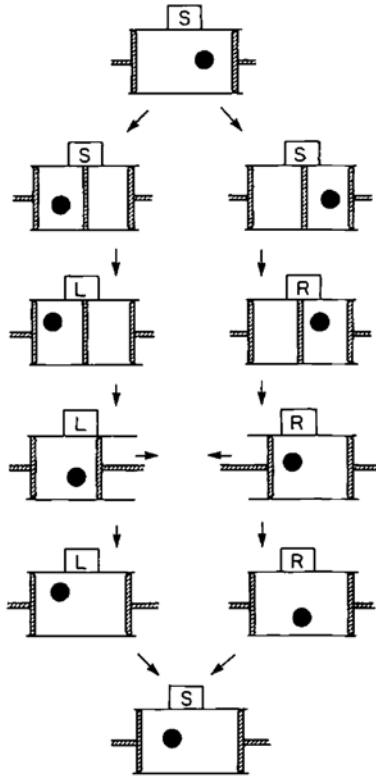
Energy and intelligence??



James C. Maxwell



Energy and intelligence?



Ludwig Boltzmann



Claude E. Shannon



$$k_B T \ln(2)$$

Rolf W. Landauer



**Energia «sprecata»
per cancellare un bit**

Energy and intelligence?

James C. Maxwell



Ludwig Boltzmann



Claude E. Shannon

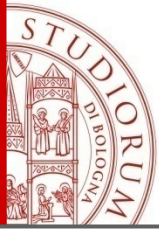


Charles H. Bennett



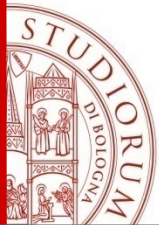
Rolf W. Landauer





First to speak (alphabetical order)

- Luca Benini (Dipartimento di Ingegneria dell'Energia Elettrica e dell'Informazione UniBo)
- Carlo Alberto Nucci, Alberto Borghetti (Dipartimento di Ingegneria dell'Energia Elettrica e dell'Informazione UniBo)
- Antonio Zoccoli (Dipartimento di Fisica e Astronomia UniBo – Istituto Nazionale di Fisica Nucleare)



Enjoy!
(and interact)