

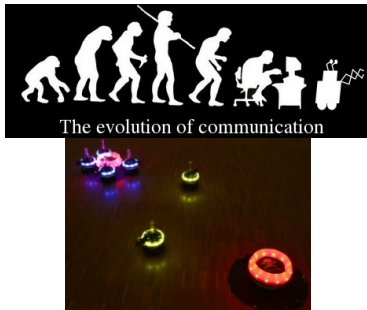
## Applications of AI

- Evolution of Language
- Ants

## Evolution of Language

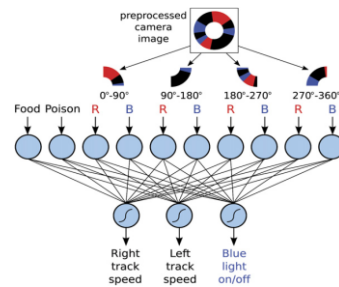
- EvoLang: International Conference on the Evolution of Language
- <http://stel.ub.edu/evolang2008/>
- <http://evolang2010.nl/>

### Evolution of Language: ECAgents



<http://lis.epfl.ch/index.html?content=research/projects/ECAgents/>

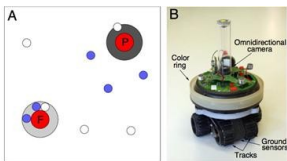
### Evolution of Language: ECAgents



D. Floreano, S. Mitri, S. Magnenat, and L. Keller. Evolutionary Conditions for the Emergence of Communication in Robots. *Current Biology*, 17:514-519, 2007.

### Evolution of Language: ECAgents

- Agents are also able to evolve deception



S. Mitri, D. Floreano, and L. Keller. The Evolution of Information Suppression in Communicating Robots with Conflicting Interests. *PNAS*, 2009.

### Ants

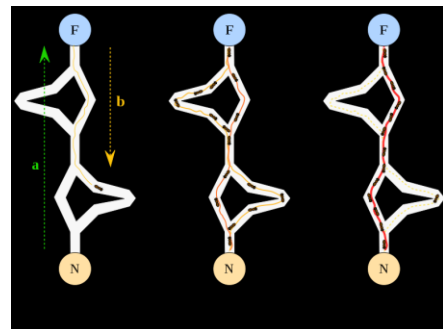
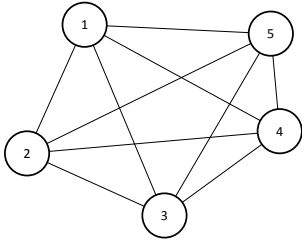
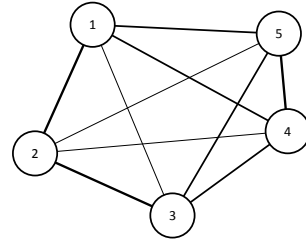


Image from: commons.wikimedia.org

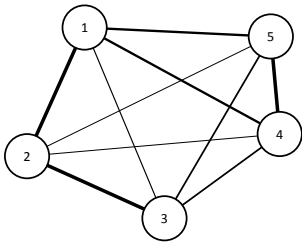
Ant Colony Optimisation for the Travelling Salesman Problem



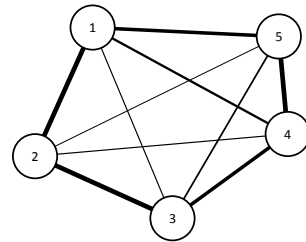
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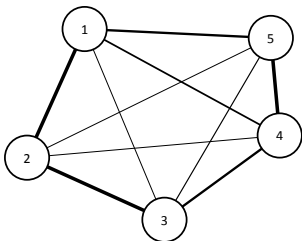
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