

Stigmergy - the product of a behavior is trigger or modulating another behavior

Steps of self organization

- Random work
- Positive feedback
- Stigmergy (work focusing or work channelization)
- Negative feedback (to stabilize the achieved work)

Models for Collective Intelligence

Slime molds - very special

1. Random walk
2. Aggregation
3. Swarming
4. Streaming
5. Nested
6. Spiral center (amoebas move against this spiral)
7. Snail
8. Fruiting

cAMP - each emits a small portion of a chemical substance to the outside environment
This substance diffuses and decays - a gradient emerges

The chemical is only emitted so far

We change the model so that the chemical gradient is shown in the environment

Homework

Add more to the termite document, start a new document on slime molds

Create a graph that demonstrates the metric versus the probability of going uphill

There will be a quiz on October 23rd regarding what we've learned in lecture