Concurrent Complexity

Multimodal Environment Complexity

How to measure?

1) Abstract Environment – establish granularity, entropy

2) Agents in Environment – detect boundaries; are entities within boundaries agents? Then adapt complexity measure for active agents.

PIE – (Perceiving Interacting Entity) Possible complexity measures:

- 1) Multi-Scale Entropy (MSE)
- 2) Dimensional Complexity Measure Formalize these.

What is minimum spatiality (channels) needed for EEG complexity measure?
Two complexity measures:

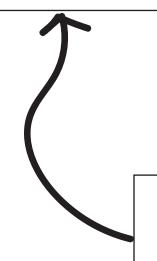
1) Time domain - MSE or other

PIE

Complexity

2) Spatial complexity across sensor locations





Emergent Meta-Agent

THEN – Feedback
What does it do?
What is mode of interactivity?