Computational Creativity and Creative Computing

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Computation
Where's the Creativity?

Creative System

Human
Simple Tools
Complex Machines
Computer Simulation

Machine
Artificial Intelligence
Computational Creativity
My Computational Models...

- Curious agents
  - Computational model of curiosity based on cognitive and psychological studies

- Social creativity
  - Computational model of social creativity based on a framework for understanding creative systems

- Stem cells!?!?
  - Computational model of stem cells developed in conjunction with a formal mathematical model
Emergent Crowd Behaviour
The Digital Clockwork Muse

The Law of Novelty

Clique Formation

Inter-clique Communication