The Future

Brain/Machine Hyb

Prosthetics lack the control, flexibility, and durability of a real arm.

A possible solution is integrating mechanical devices with your

Effective Tests for Performan
Enhancing Drugs

The widespread use of steroids in professional sp
Major League Baseball) is hard to prevent given t
drug tests currently used to identify PEDs in the b

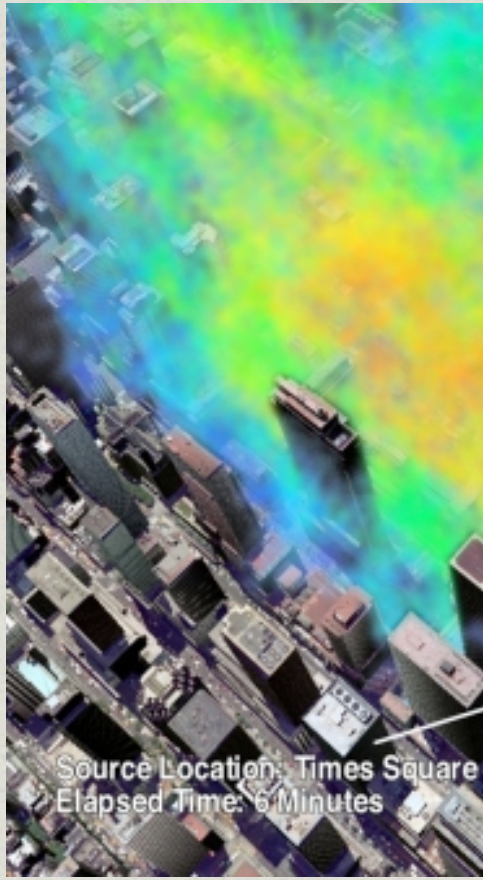
Possible solution would detect more diverse type
smaller concentrations and different (more conve
the body than current tests do.

Biological Terrorism

Problem: terrorists can employ infectious viruses as weapons.

Solutions:

- Virus detectors (similar to metal detectors at airports)



Luminary Mind Cra

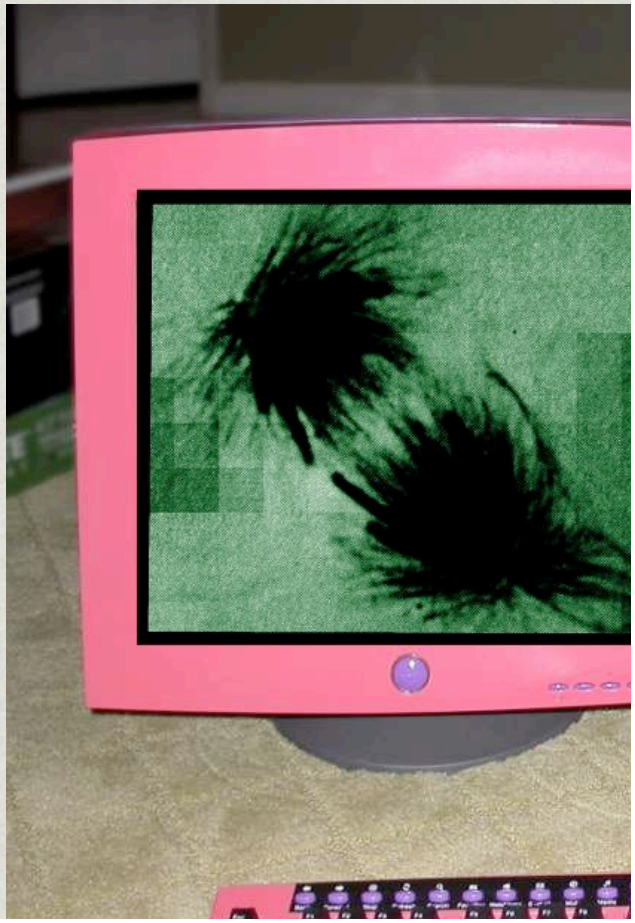
Build glow in the dark helmets to attract attention and therefore safeguard cyclists.

Use glowing bacteria on a helmet substrate, kept alive and glowing

Regenerative Computers

Computers are always breaking. Biological computers should be able to regenerate parts by themselves.

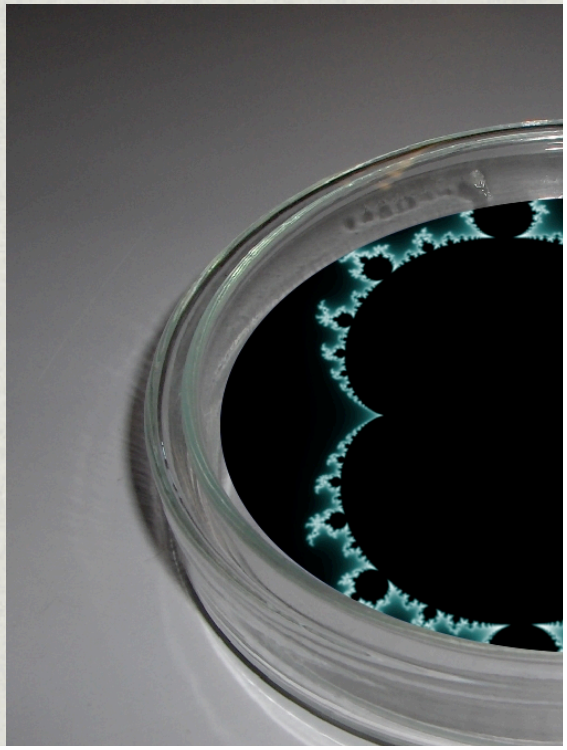
Make biological computers out of



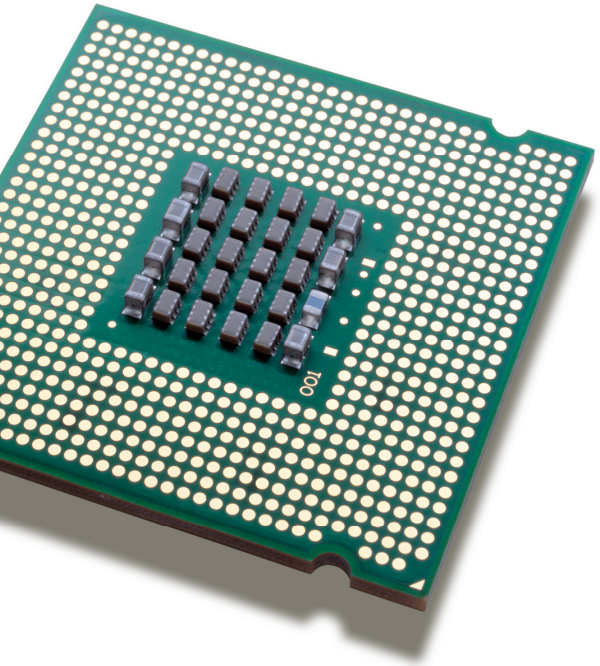
Biological Computing of

Fractals are recursive, making them well-suited to solution by many autonomous individuals working together.

Cellular automata



Biological Logic Ga



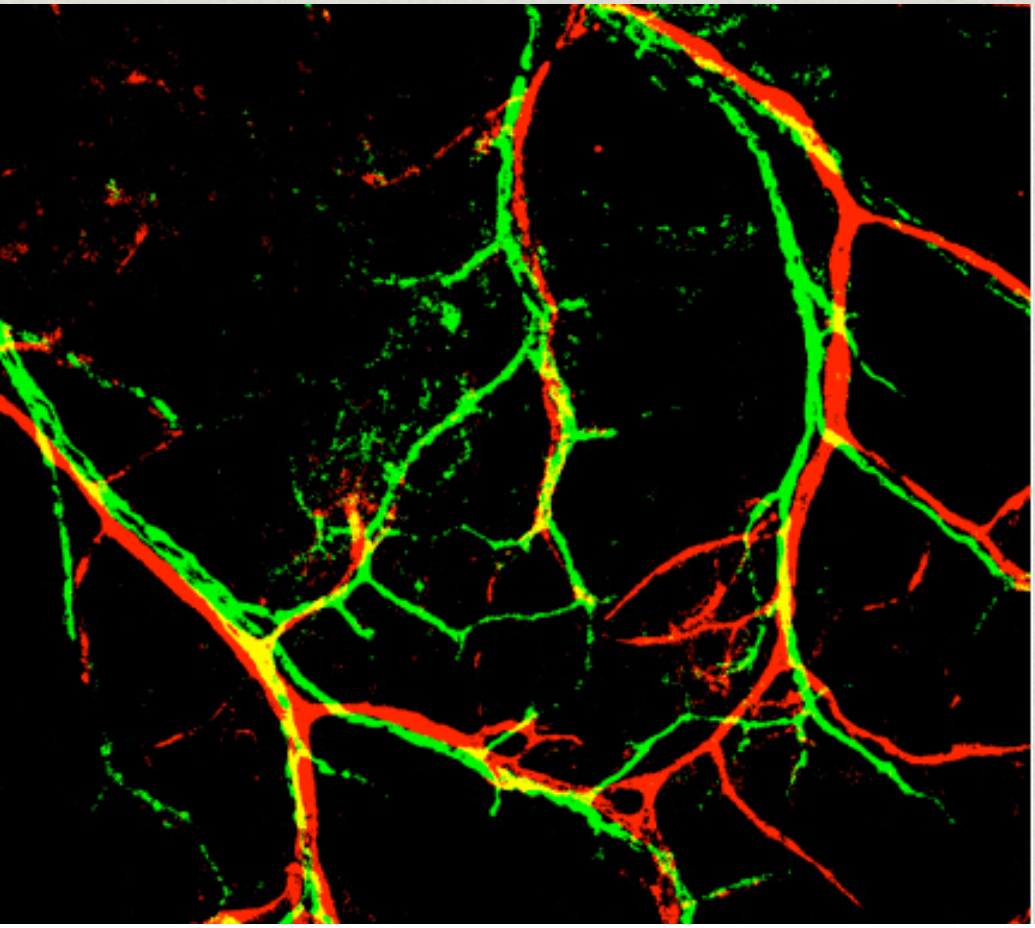
- Computers are buil
  structures chained
  ones.
- Biological parts are
  reproducing, which
  to make lots of ther
  them to solve probl
  parallel. Biological c

Neural Nets

One criticism of electronic neural nets is
“neurons” don't actually model biologic
Biological computers could use actual n
perform computation.

Would allow us to perform all the comp
optimized for neural nets

Nerve Regeneratio



- Often during
  fractures, ne
  intact
- Scar tissue i
  prevents sig
  traveling alo
- Biological “w

Programmable foo

Food in vitro

Novel tastes

Hypoallergenic foods