Emerging Technologies & New Computing Paradigms

- **Quantum Computing** [http://www.nsf.gov/pubs/2000/nsf00101/nsf00101.htm]
  - Security (cryptography)
  - Error correcting codes
  - Structural redundancies & diversification

- **Nanotechnologies** [http://www.nas.nasa.gov/Groups/SciTech/nano/index.html]
  - Data storage
  - Self-replicating systems [http://www.zyvex.com/nanotech/selfRep.html]

- **Biological Computing** [http://cism.jpl.nasa.gov/program/RCT/BioCompUD.html]
  - Space exploration requires more autonomous, intelligent spacecraft and planetary explorers, with the potential to self-organize and self-repair => Exemplary class for inspiration living organisms.

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