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Millonas' Five Basic Principles of Swarm Intelligence

- 1. Proximity principle: pop. should perform simple space & time computations
- Quality principle: pop. should respond to quality factors in environment
 District and the factors
- 3. Principle of diverse response: pop. should not commit to overly narrow channels
- 4. *Principle of stability:* pop. should not change behavior every time env. changes
- Principle of adaptability: pop. should change behavior when it's worth comp. price
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Kennedy & Eberhart on PSO

- "This algorithm belongs ideologically to that philosophical school
- that allows wisdom to emerge rather than trying to impose it,
- that emulates nature rather than trying to control it,
- and that seeks to make things simpler rather than more complex.
- Once again nature has provided us with a technique for processing information that is at once elegant and versatile."

10/13/04

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