

# Evolutionary Algorithms: Introduction

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<http://cw.felk.cvut.cz/doku.php/courses/a4m33bia/start>



























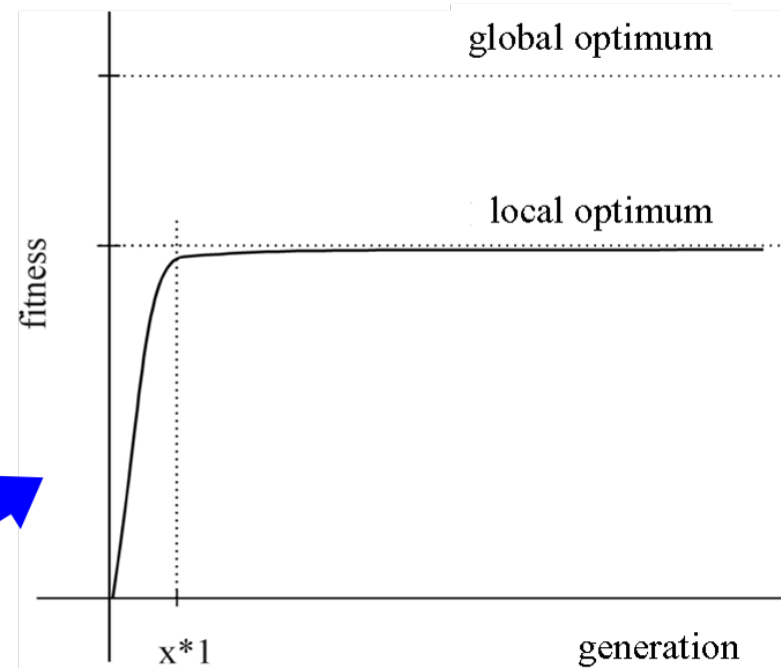
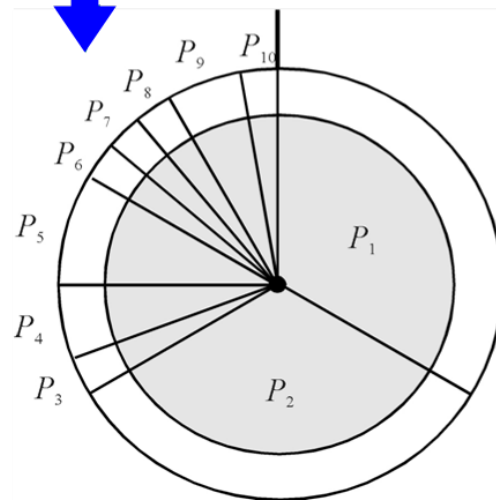
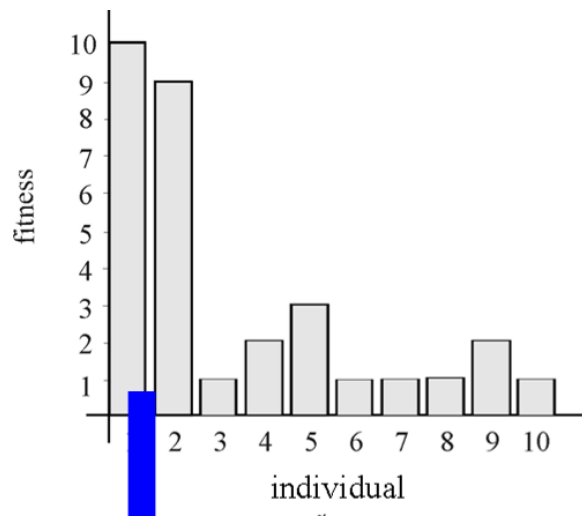








# Premature Convergence







































## Artificial Ant Problem: Example cont.

### Ant behavior

- What happens if the ant "hits" an obstacle?
- What is strange with transition from state 10 to the initial state 00?
- When does the ant succeed?
- Is the number of states sufficient to solve the problem?
- Do all of the possible 34-bit chromosomes represent a feasible solution?

