Gradient-free optimizer

Optimum

f(x)

real-genetic pop.

minimum
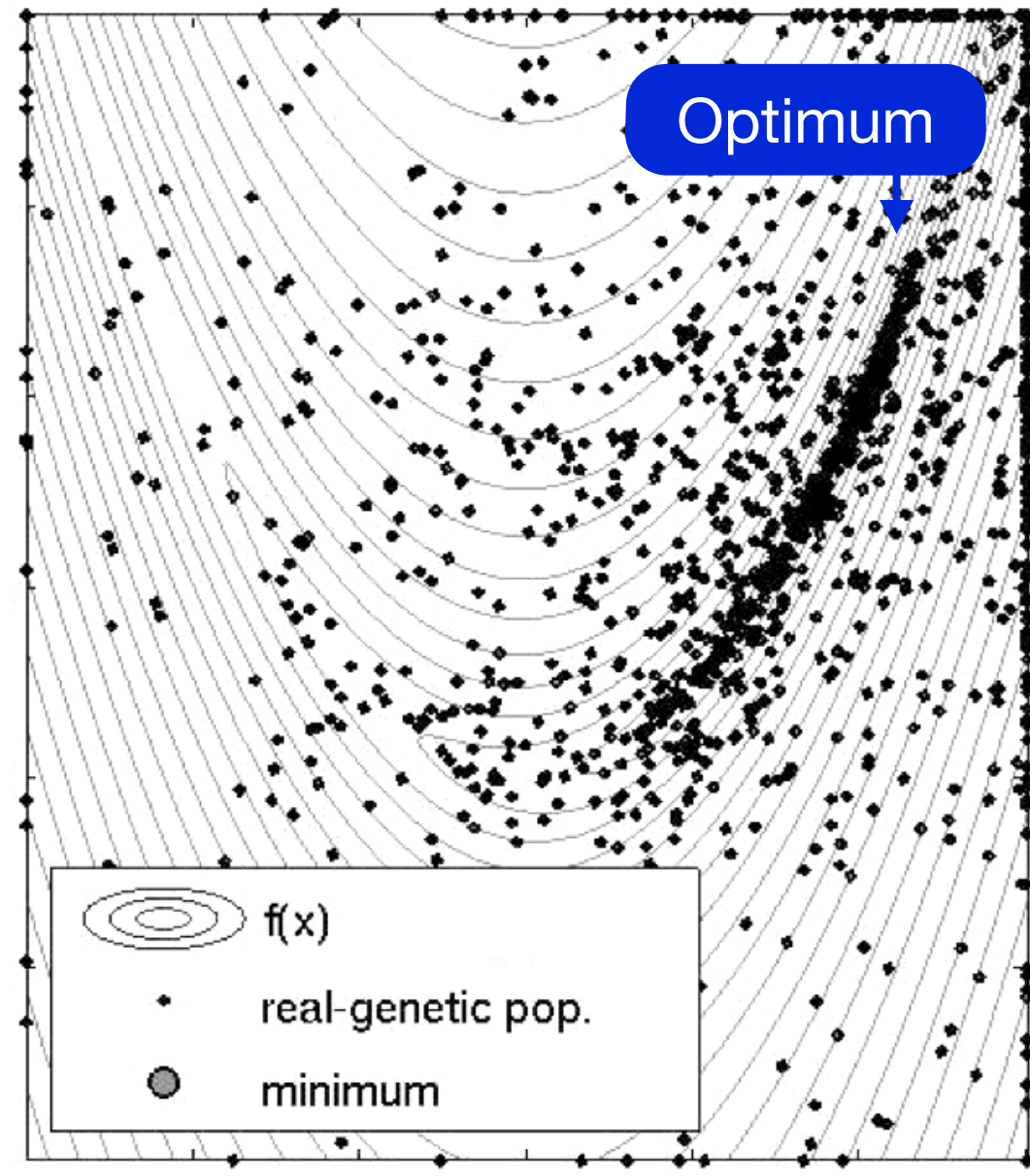
Gradient-based optimizer

Starting point

Optimum

f(x)

minimum

BFGS