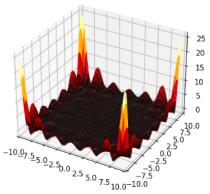
Choose objective function $z = f(x)$.

- Ackley
- Beale
- Bird
- Booth
- Bukin4
- Bukin6
- **Carromtable**
- Chichinadze
- Crossfunc
- Crossintray
- Crosslegtable
- Crownedcross
- Cube
- Easom
- Eggholder
- Giunta
- Goldsteinprice
- Griewank
- Himmelblau
- Holdertable
- Leon
- Levi13
- Matyas
- Mccormick
- Modschaffer1
- Modschaffer2
- Modschaffer3
- Modschaffer4
- Penholder
- Rastrigin
- Rosenbrock
- Schweffel
- Sinenvsin
- Sixhumpcamel
- Testtubeholder
- Threehumpcamel
- Zettl



Make random observations of $f(x)$ using simulation with both random and systematic error.

There are $n = 100$ simulated observations.

Random error is gaussian with $\mu = 0$ and $\sigma = 0.05$.

Systematic error is gaussian with $\mu = 2$ and $\sigma = 0.05$.

Fit a curve to our observations.

Conducted using linear interpolation.

Generate a weight distribution using some activation function on our generated curve.

Our activation function is simply the magnitude of our response.

Use weight distribution to make random observations of $f(x)$ using direct experimentation with some random error.

There are $m = 5$ experimental observations.

Random error is gaussian with $\mu = 0$ and $\sigma = 0.05$.

Update model.

Gaussian process.

Fit a curve to our direct experimental observations.

Conducted using linear interpolation.