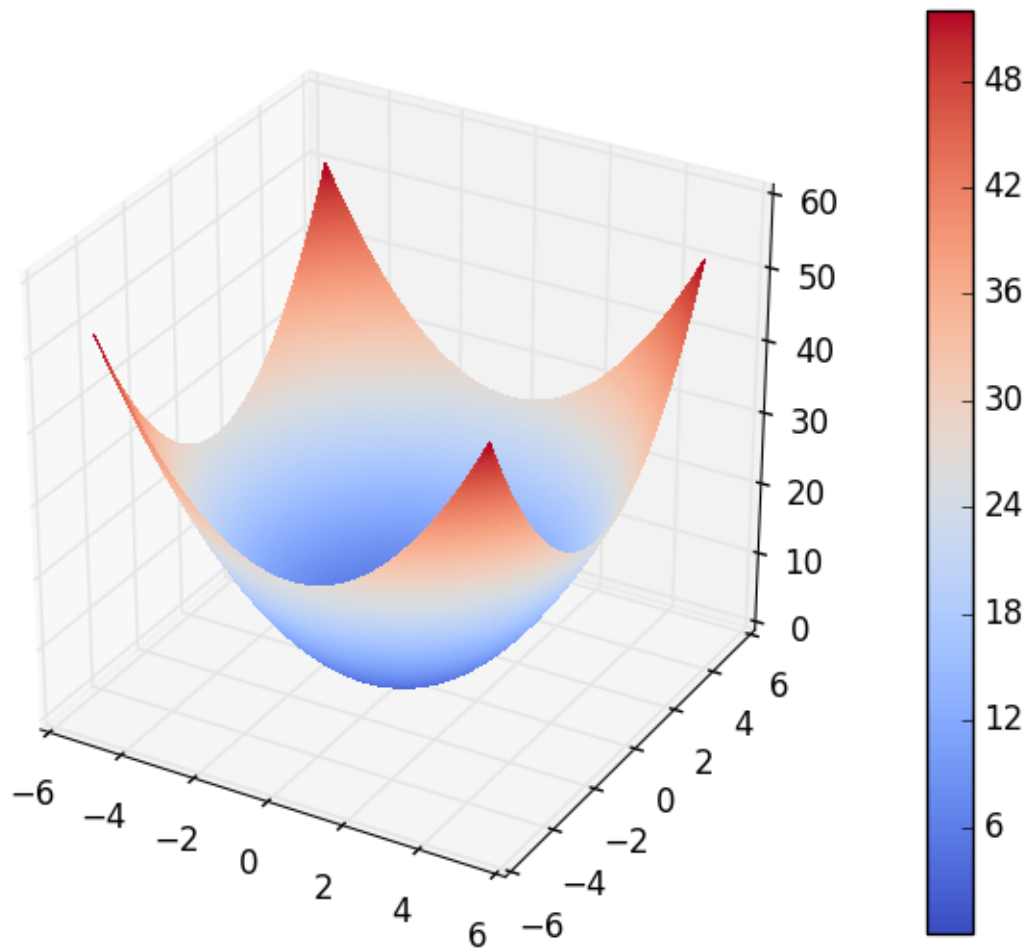


Sphere

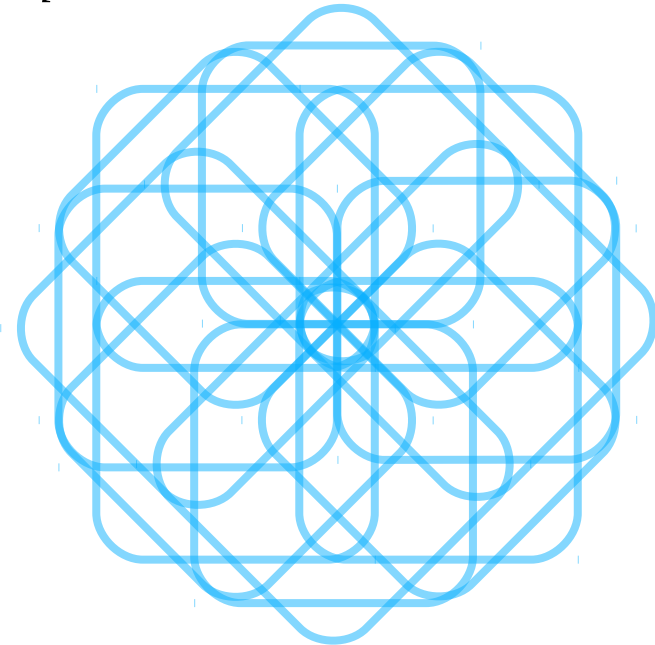


$$f(x) = \sum_{i=1}^n x_i^2$$

$$x^* = 0$$

$$f(x^*) = 0$$

$$x_i \in [-5.12, +5.12]$$



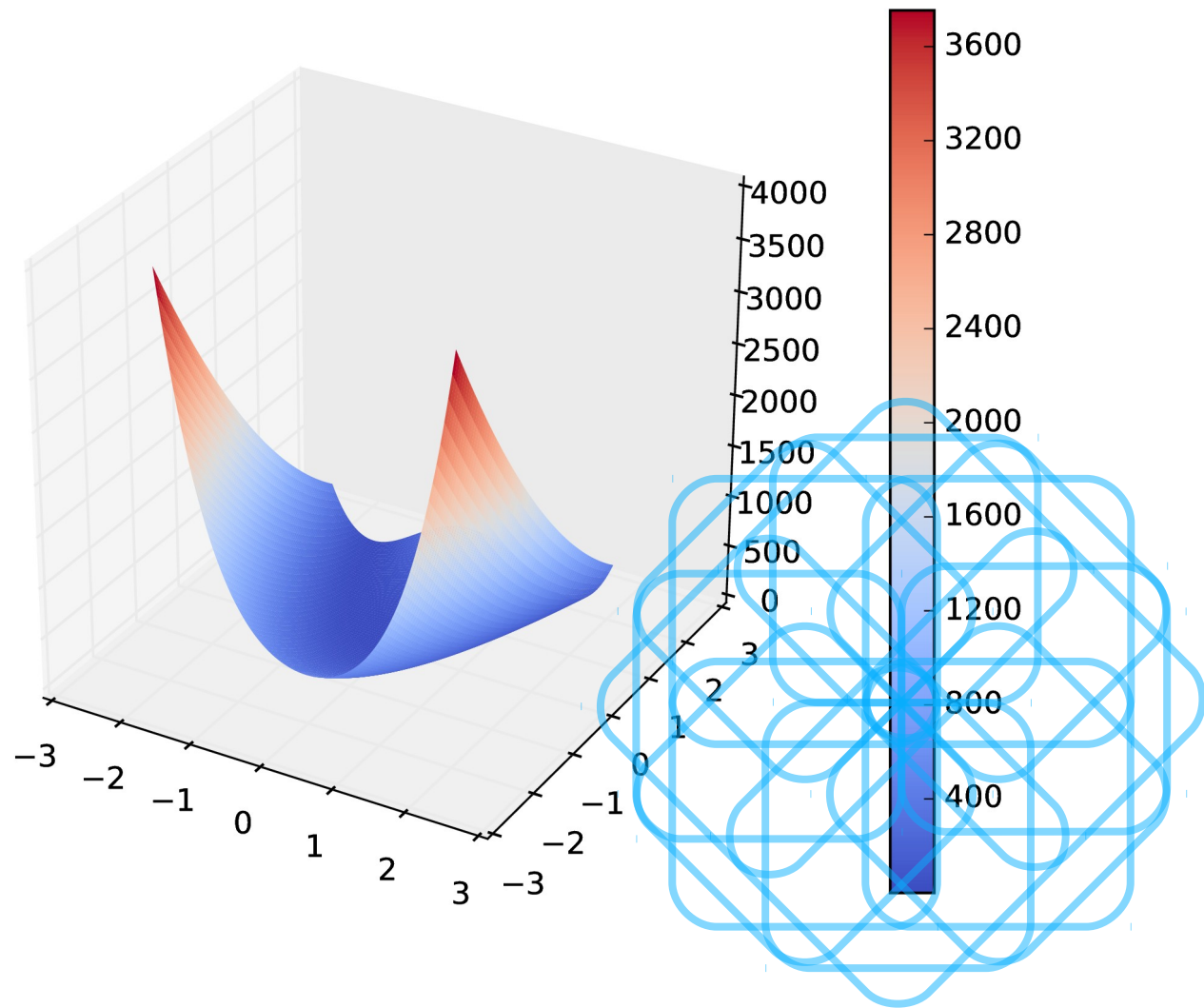
Rosenbrock

$$f(x) = \sum_{i=1}^{n-1} [100(x_{i+1} - x_i^2)^2 + (x_i - 1)^2]$$

$$x^* = [1, \dots, 1]$$

$$f(x^*) = 0$$

$$x_i \in [-2.048, +2.048]$$



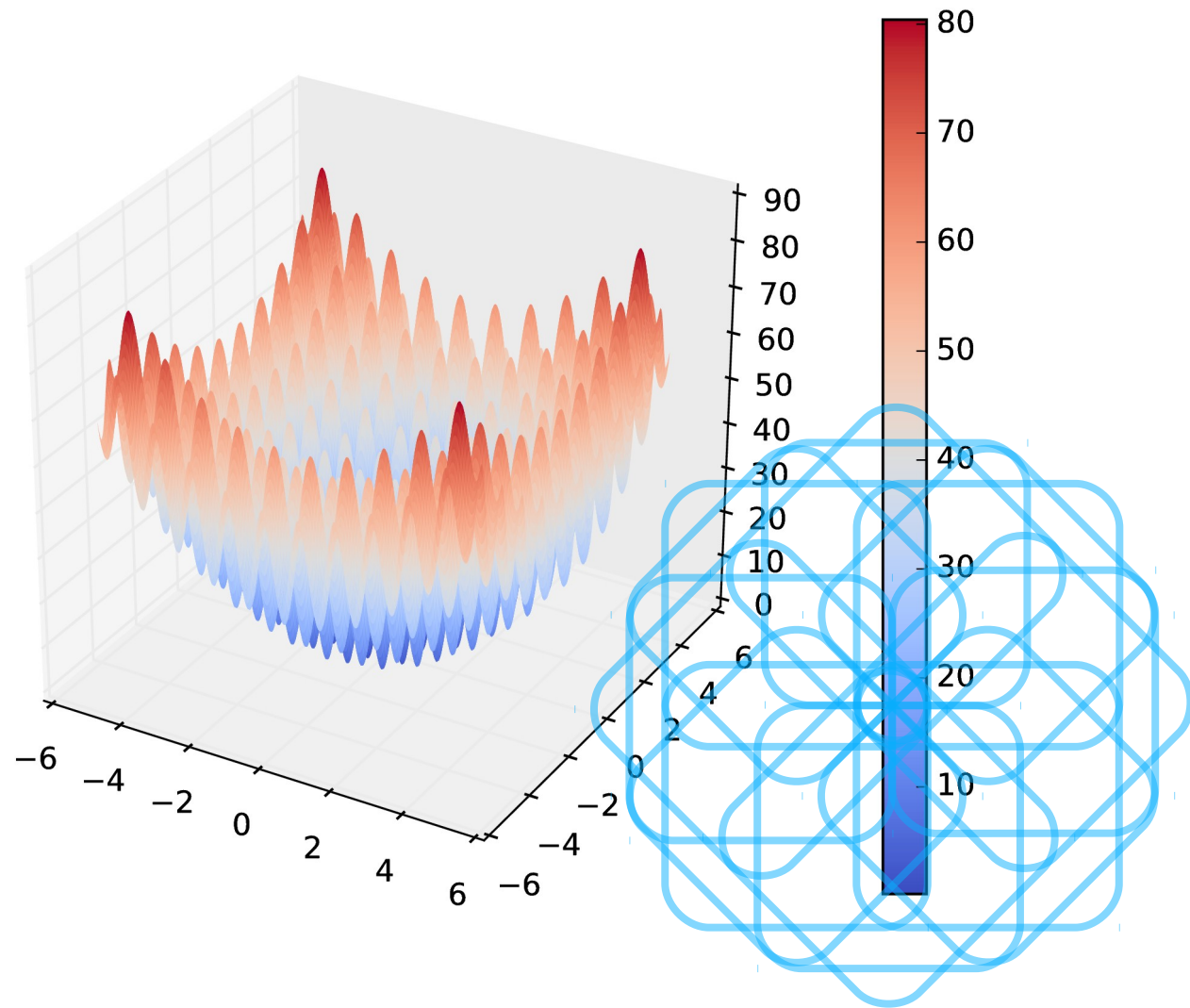
Rastrigin

$$f(x) = 10n + \sum_{i=1}^n x_i^2 - 10 \cos(2\pi x_i)$$

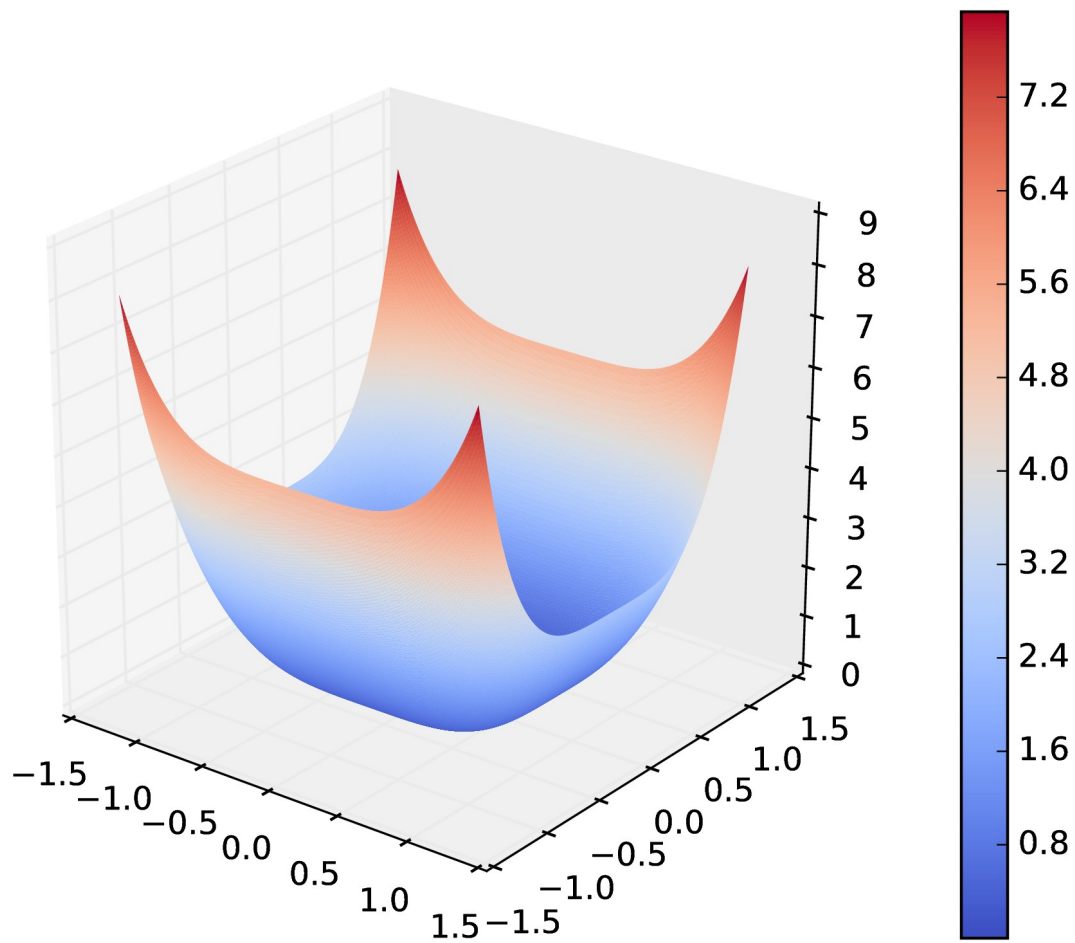
$$x^* = 0$$

$$f(x^*) = 0$$

$$x_i \in [-5.12, +5.12]$$



Quartic



$$f(x) = \sum_{i=1}^n ix_i^4$$

$$x^* = 0$$

$$f(x^*) = 0$$

$$x_i \in [-1.28, +1.28]$$

