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## 1 Parametric Optimization

## 1.5 Rastrigin's function 6

Rastrigin's function is based on function 1 with the addition of cosine modulation to produce many local minima. Thus, the test function is highly multimodal. However, the location of the minima are regularly distributed.

## function definition

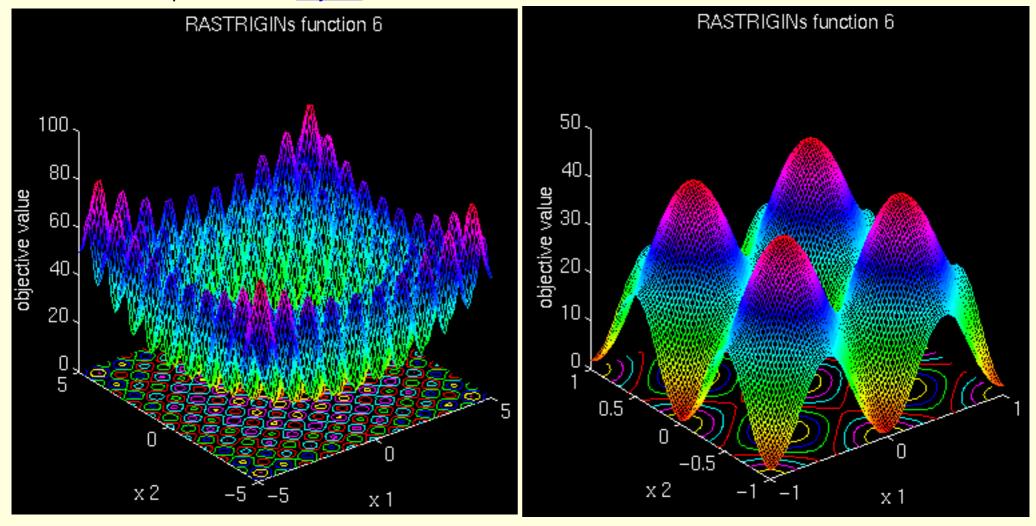
$$f_6(x) = 10 \cdot n + sum(x(i)^2 - 10 \cdot cos(2 \cdot pi \cdot x(i))), i=1:n;$$
  
-5.12<=x(i)<=5.12.

## global minimum

$$f(x) = 0; x(i) = 0, i=1:n.$$

Their ferror time in incoming the property of the coloring

Inis tunction is implemented in opituno.



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