



1 Parametric Optimization

1.6 Schwefel's function 7

Schwefel's function [\[Sch81\]](#) is deceptive in that the global minimum is geometrically distant, over the parameter space, from the next best local minima. Therefore, the search algorithms are potentially prone to convergence in the wrong direction.

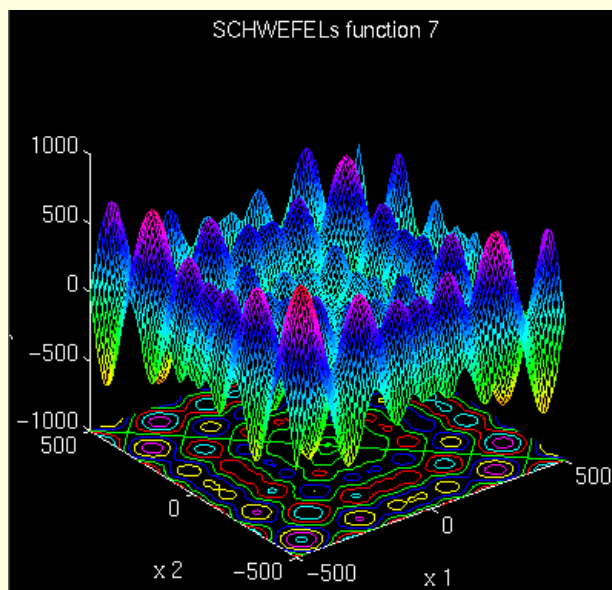
function definition

```
f7(x)=sum(-x(i)·sin(sqrt(abs(x(i))))), i=1:n;  
-500<=x(i)<=500.
```

global minimum

```
f(x)=-n·418.9829; x(i)=420.9687, i=1:n.
```

This function is implemented in [objfun7](#).



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