

Appendix 7.2 Matlab (Version 2010a ©) code for Rastrigin's function

```
x = linspace(-5.12,5.12,18);  
y = linspace(-5.12,5.12,18);  
  
f = @(x,y) 10*2 + x.^2 + y.^2 - 10*cos(2*pi*x) - 10*cos(2*pi*y);  
  
[xx,yy] = meshgrid(x,y);  
  
zz = reshape(f(xx(:),yy(:)), 18, 18);  
  
figure  
surfc(xx,yy,zz);  
shading interp;  
  
title('Rastrigin function','FontSize',16)  
axis([-5.12 5.12 -5.12 5.12 -30 85])
```