**UCCC2513 Assignment & Project**

Appendix A

The benchmark functions are referred from [1,2].

* + 1. Sphere function

(1)

Global minimum, for

is the number of dimensions

1. Ackley function

(2)

Global minimum, for

is the number of dimensions

1. Rastrigin function

(3)

Global minimum, for

is the number of dimensions

1. Zakharov function

(4)

Global minimum, for

is the number of dimensions

1. Axis Parallel Hyper-Ellipsoid function

(5)

Global minimum, for

is the number of dimensions

1. Griewank function

(6)

Global minimum, for

is the number of dimensions

1. Sum of Different Powers function

(7)

Global minimum, for

is the number of dimensions

1. Rotated Hyper-Ellipsoid function

(8)

Global minimum, for

is the number of dimensions

1. Schwefel 2.22 function

(9)

Global minimum, for

is the number of dimensions

1. Exponential function

(10)

Global minimum, for

is the number of dimensions

References

[1] S. Surjanovic and D. Bingham. (2013). *Virtual Library of Simulation Experiments: Test Functions and Datasets* [Online]. Available: https://www.sfu.ca/~ssurjano

[2] M. A. Ardeh. (n.d.). *BenchmarkFcns Toolbox* [Online]. Available: https://benchmarkfcns.info