Technion – Israel Institute of Technology



HW6

Numerical Methods

019003

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January 7, 2022

# Prolouge

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| --- | --- | --- | --- | --- | --- |
| Parameters | Steepest Decent | Quasi-Newton | Simulated Annealing | Genetic Algorithm | Downhill Simplex |
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# Easom

Having started with 5 initial conditions for each method, we decided to incorporate the *multi-start* approach into the optimization process when comparing between the methods. For this reason, the meta-data comparison will contain information regarding the best attempt for each method.

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|  | Steepest Decent | Quasi-Newton | Simulated Annealing | Genetic Algorithm | Downhill Simplex |
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|  |  |  |  |  |  |
| # Iterations |  |  |  |  |  |
| # Evaluations |  |  |  |  |  |
| Step Size |  |  |  |  |  |
| Change in function value on last iteration |  |  |  |  |  |

# Rosenbrock

# Eggholder