APPENDIX II

PSEUDO CODE FOR GENETIC ALGORITHM

Step 1  Objective function $f(x)$, $x = (x_1, \ldots, x_d)^T$

Step 2  Encode the solutions into chromosomes

Step 3  Define fitness $F$

Step 4  Generate the initial population

Step 5  Initialize the probabilities of crossover ($p_c$) and mutation ($p_m$)

while ($t < \text{Max number of generations}$)

Generate new solution by crossover and mutation

Crossover with a crossover probability $p_c$

Mutate with a mutation probability $p_m$

Accept the new solutions if their fitness increase

Select the current best for the next generation (elitism)

Update $t = t + 1$

end while

Step 6  Decode the results and visualization