APPENDIX V

PSEUDO CODE FOR FIREFLY ALGORITHM

Step 1  Objective function \( f(x), x = (x_1, \ldots, x_d) \)
Step 2  Generate initial population of fireflies
Step 3  Formulate light intensity \( I \)
Step 4  Define absorption coefficient \( \gamma \)
Step 5  While \( t < \text{Max Generation} \)
  For \( i = 1 \) to \( n \) (all \( n \) fireflies)
  For \( j = 1 \) to \( n \) (all \( n \) fireflies)
  If \( I_j > I_i \), move firefly \( i \) toward \( j \)
  end if
End for \( j \)
End for \( i \)
Step 6  Evaluate new solutions and update light intensity
End for \( j \)
End for \( i \)
Step 7  Rank the fireflies and find the current best
End while
Step 8  Post process results and visualization
End procedure