

Figure 1 is a line graph showing the evolution of the number of iterations required for convergence (X-axis, labeled 'Iterations', ranging from 0 to 200) versus the value of α (Y-axis, ranging from 0.00 to 0.05). The graph displays six curves corresponding to different values of α :

- $\alpha = 0.00$ (Red line): Shows the highest number of iterations, starting around 190 and decreasing to approximately 135 at $\alpha = 0.01$.
- $\alpha = 0.01$ (Brown line): Starts around 190 and decreases to approximately 115 at $\alpha = 0.02$.
- $\alpha = 0.02$ (Purple line): Starts around 190 and decreases to approximately 90 at $\alpha = 0.03$.
- $\alpha = 0.03$ (Green line): Starts around 190 and decreases to approximately 65 at $\alpha = 0.04$.
- $\alpha = 0.04$ (Blue line): Starts around 190 and decreases to approximately 60 at $\alpha = 0.05$.
- $\alpha = 0.05$ (Orange line): Starts around 190 and decreases to approximately 55 at $\alpha = 0.05$.

The graph illustrates that as α increases, the number of iterations required for convergence decreases significantly. A dotted black line shows a step-wise decrease in iterations as α increases.

