

Figure 1 is a horizontal bar chart illustrating the distribution of the number of clusters (y-axis, ranging from 0 to 9) across different values of the parameter α (x-axis, ranging from 0.0 to 1.0). A vertical dashed red line is drawn at $\alpha = 0.5$. The bars are colored: 0 (black), 1 (purple), 2 (blue), 3 (cyan), 4 (teal), 5 (green), and 9 (red). The distribution is highly skewed towards a small number of clusters, with the red bar (9 clusters) being the most prominent.

