

A scatter plot showing 1000 data points (red dots) distributed across a 2D space. The x-axis ranges from -0.5 to 1.0, and the y-axis ranges from -6 to 10. The data points are grouped into 10 distinct clusters. Each cluster is represented by a blue asterisk, which indicates the centroid of that cluster. The clusters are located at approximately: (-0.3, 8), (-0.3, 1.5), (-0.3, -4.5), (0.7, 4), (0.7, 3.8), (0.3, -1.5), (0.5, 6), (0.5, 5.5), (0.6, 5.5), and (0.8, 2.5).

