

The background of the slide is a complex, abstract composition. It features a dark, muted purple or brownish background. Overlaid on this are several geometric and data-like elements: a network of thin, light-colored lines forming a web-like structure; numerous small, green and blue dots scattered across the space; and a series of vertical, slightly wavy lines on the right side. In the center, there is a large, white, angular shape that resembles a stylized letter 'A' or a large arrow pointing downwards, which serves as a backdrop for the title text. To the left of the title, there is a smaller, rectangular inset image showing a cluster of orange and red dots on a light background, with a grid of small '+' symbols overlaid on it.

Clustering Validation: Basic Concepts

Clustering Validation and Assessment

- Major issues on clustering validation and assessment
 - **Clustering evaluation**
 - Evaluating the goodness of the clustering
 - **Clustering stability**
 - To understand the sensitivity of the clustering result to various algorithm parameters, e.g., # of clusters
 - **Clustering tendency**
 - Assess the suitability of clustering, i.e., whether the data has any inherent grouping structure