

The background features a complex network of red lines connecting green dots, overlaid on a light blue grid. A white banner with a large plus sign is positioned behind the title. On the left, there is a small inset image showing a cluster of orange and red dots.

Session 3: Cluster Analysis: Requirements and Challenges

Question

- ☐ In which of the following scenarios is hierarchical partition likely to be desired over single level partitioning?
 - ☐ Clustering documents by topics, where there might be inherent hierarchy in the topics (e.g. Computer Science -> Data Mining -> Cluster Analysis)
 - ☐ Clustering organisms based on their characteristics (e.g. appearance, behaviors, genetic makeup). (Hint: think about taxonomy in biology)
 - ☐ Clustering people by geolocation where we may wish to examine the population at different levels of resolution (e.g. Country->State->Municipality)
- ☐ Answer: All three choices. These are all examples where hierarchical partitioning is helpful for examining the data at different levels of resolution.