

Density-Based Clustering Methods

- Clustering based on density (a local cluster criterion), such as density-connected points
- Major features:
 - Discover clusters of arbitrary shape
 - Handle noise
 - One scan (only examine the local region to justify density)
 - Need density parameters as termination condition
- Several interesting studies:
 - DBSCAN: Ester, et al. (KDD'96)

To be covered in this lecture

OPTICS: Ankerst, et al (SIGMOD'99)

To be covered in this lecture

- □ DENCLUE: Hinneburg & D. Keim (KDD'98)
- CLIQUE: Agrawal, et al. (SIGMOD'98) (also, grid-based)

To be covered in this lecture