



Discretization Algorithms

- Unsupervised vs supervised. Unsupervised algorithms do not consider the decision value.
- Global vs local. Global algorithms group values of each feature into intervals by considering other features. Local algorithms group locally.
- Static vs dynamic. Static algorithms discretize each feature in one iteration independent of other features. Dynamic algorithms search for all possible intervals for all features simultaneously.



Discretization Algorithms

- Equal interval width discretization
- Equal frequency discretization
- k-means clustering discretization
- One-level (1RD) decision tree discretization
- Information-theoretic discretization methods:
- χ²method
- maximum entropy discretization
- class-attribute interdependence redundancy discretization (CAIR)
- class-attribute interdependence uncertainty and redundancy discretization (CAIUR)