

Cluster analysis – advanced and special algorithms

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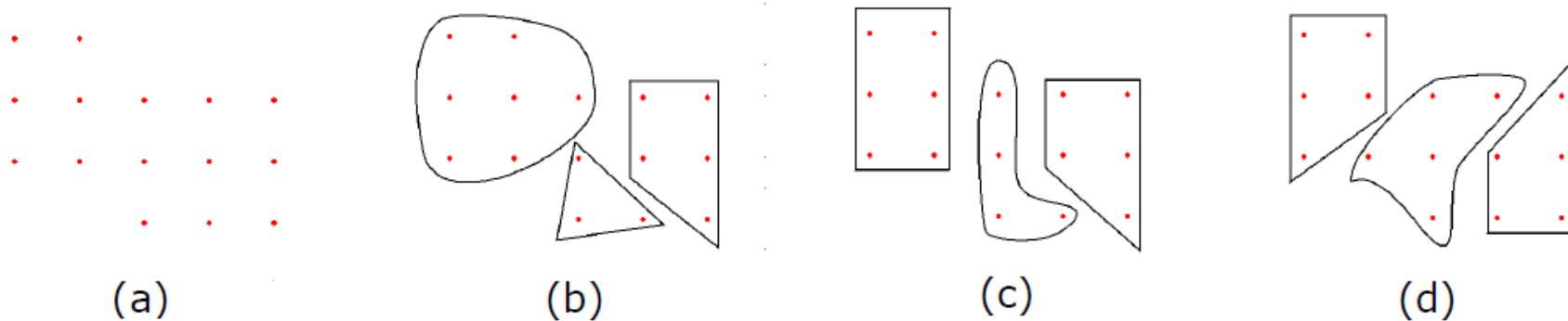
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<http://cw.felk.cvut.cz/wiki/courses/a4m33sad/start>

Advanced clustering – summary

- Clustering covers a wide range of methods
 - not merely an instance set partitioning in \mathbb{R}^n dealing with disjoint clusters,
 - in general, it discovers arbitrary frequent co-occurrence of events in data,
- unsupervised = subjective approach
 - “gold true” does not exist (compare with classification),
 - the outcome is influenced by the employed implicit and explicit knowledge,



Jain: Data Clustering: 50 Years Beyond K-Means, modified

- tightly related to learning
 - conceptual clustering – knowledge-based with cluster/concept descriptions,
 - semi-supervised clustering – both annotated and unannotated instances,

