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Clustering for Big Data

Towards Generalized VAT-style Class-independent Unsupervised Fuzzy Clustering for Big Data

ARASH ABADPOUR

Arash Abadpour (arash@abadpour.com) is with Flo Corporation.

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Createspace Independent Publishing Platform, United States, 2016. Paperback. Condition: New. Language: English. Brand new Book. It is a prerequisite to many applications in different fields to separate a set of data items into homogenous clusters. In this context, a data item may be a member of R^k or a complex mathematical entity encompassing several properties. Homogeneity, too, is a general concept which is defined differently in different contexts. In effect, the ability to work with abstract models for data items and clusters has important economical benefits, in terms of not only the reusability of the algorithms, but also the reuse of actual computer code. Visual Assessment of Cluster Tendency (VAT) is a discovery mechanism which has been shown to work desirably within the context of prototype-based clustering. However, VAT has been shown to suffer from high costs of operation, especially in the context of Big Data. While the research community has invested heavily on proposing alternatives to VAT, a generic cost-effective unsupervised cluster discovery algorithm is not within reach. In this work, we demonstrate that the VAT comparison and reordering mechanism can be applied at the level of clusters, instead of its classical application at the level of data items. We exhibit that this innovation results in effective reduction of the computational complexity of the resulting algorithm from $O(N^2)$ to $O(N)$. Moreover, we demonstrate that this technique allows for a generic formulation of the unsupervised clustering problem. This paper includes the mathematical derivation of this idea accompanied by experimental results. We provide some of the deficiencies of the present work at the end of the paper and recommend potential ideas for the continuation of this work.

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