

## **Agglomerative Hierarchical Clustering Using the $T\theta$ Family of Similarity Measures**

**Authors :** Salima Kouici, Abdelkader Khelladi

**Abstract :** In this work, we begin with the presentation of the  $T\theta$  family of usual similarity measures concerning multidimensional binary data. Subsequently, some properties of these measures are proposed. Finally, the impact of the use of different inter-elements measures on the results of the Agglomerative Hierarchical Clustering Methods is studied.

**Keywords :** binary data, similarity measure,  $T\theta$  measures, agglomerative hierarchical clustering

**Conference Title :** ICAMOR 2014 : International Conference on Applied Mathematics and Operation Research

**Conference Location :** Singapore, Singapore

**Conference Dates :** September 11-12, 2014