Fuzzy clustering in Czekanowski's diagram

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Abstract

Czekanowski's diagram aims to visualize relationships between objects in a simple manner in a two–dimensional matrix. Clusters can be visible in such a diagram. However, the boundaries between these clusters are often very vague and this uncertainty has to be taken into account. The work here presents further development of the RMaCzek package, which now allows for presenting fuzzy clusters in Czekanowski's diagrams—i.e., clustering with uncertain regions. 2010 Mathematics Subject Classification: Primary: 62H30; Secondary: 62-04.

Key words and phrases:
Change point analysis, cluster analysis, Czekanowski's diagram, fuzzy clustering, grape cultivars, multivariate distance methods, RMaCzek.

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