MODIFICATION OF FUZZY C-MEANS ALGORITHM ON THE BASIS OF THE APPLICATION OF VOLUME PROTOTYPES AND SIMILAR CLUSTER MERGE

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Fuzzy C-Means Algorithm is one of the most frequently used algorithms. This algorithm has some drawbacks, such as unrobustness against the initial data, inability to recognize the small volume clusters. Also the problem of determination of optimal number of clusters exists. In this paper the methods of enhancement of FCM algorithm on purpose of these drawbacks elimination are described.