CLUSTER ANALYSIS IN PEDAGOGICS

Pavel Dedera

TECHNICAL UNIVERSITY

Liptovský Peter 13 033 01 Liptovský Hrádok

For processing of the statistic data of the pedagogic research we used processes of the cluster analysis. We modified widely known algorithm ISODATA for both hard clustering and fuzzy clustering (or for fuzzy clustering hat uses the theory of fuzzy sets). The modification was based on starting with vectors of centers of clusters $V^{(0)}$ instead of the initial matrix $U^{(0)}$.

The usefulnes of the analysis of our pedagogic material has been judged by the expert method.

References:

- 1 BEZDEK, J.C.: Pattern Recognition with Fuzzy Objective Function Algorithm, Plenum Press, New York (1981).
- 2 SIZHONG, G.: An algorithm for fuzzy clustering based on fuzzy relations, Busefal 23 (1985).