Annotation

for the graduate work of Dmytro Dragan Dmytryevsch "Methods, algorithms

intellectual decision support"

Total volume of the work: 99 pages, 17 figures, 2 tables, 2 appendixes, 40

bibliographic titles.

Graduate work deals with modern methods, algorithms of intellectual decision

support. Different methods are covered in theory, with possible positive and negative

application results specified, as well as effectiveness estimations in different

conditions. The main part is devoted to Kohonen self-organizing map algorithm for

solving context-related tasks in the issues of clustering, classification, data

visualization. The research goal is to build a classifier model, a detailed

demonstration of the costs, benefits of methods. The research object is a

multidimensional sampling data. Subject of research is to build the classifier, the

evaluation of effectiveness in task of pattern recognition. Classifier is builded with

using models are based on Kohonen self-organizing maps, Active Appearance

Models.

Keywords: SOM, AAM, classification, context–awared systems, Pattern Recognition