

ABSTRACT

for the graduate work of Peter Kuts Olegovych
on the point: «Methods and algorithms for inference in context-aware
applications»

Graduate work covers analysis of context-aware systems. Relevance of the work is confirmed by developments foreign and ukrainian scientists in the field of context-aware multimodal interaction.

The aim of the thesis is the development of the typical context pattern extraction algorithm and using those patterns for prediction in context-aware applications.

From the variety of different clustering algorithms, FOREL with elements of the BIGFOR algorithm was chosen.

As the result we get a realization of the typical context pattern extraction algorithm. And the testing of algorithm attributes was held.

The results of researches were published in the International Conference SAIT-2011 «Пошук типових шаблонів в задачах мультимодальної взаємодії» .

Total volume of the work: 61 pages, 21 illustrations, 14 bibliographic titles.

Keywords: context, multimodality, prediction, pattern clustering, FOREL, BIGFOR, system, service, interface.