Shape Understanding System - Learning to Solve Text Tasks

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Abstract

In this paper the results of research on the Shape Understanding System (SUS) learning to solve different text tasks, are presented. Learning to solve variety of text tasks is a part of the problem of learning for understanding of the text. In this paper the main focus is on learning of the short texts called the text tasks, the text-queries and the dictionary texts. Learning to solve of the different text tasks consists of the following stages: learning of the coding categories during coding process, learning of the query forms, learning of the basic forms, learning of the procedural forms and learning of the interpretational or the explanatory forms.

Learning is an iterative process where the new learned cases are tested in the context of the previously learned knowledge. Learning process depends on the type of text problem and the knowledge domain to which a given problem belongs. SUS efficiency of learning to solve the different test tasks was evaluated during testing stage. The results showed that SUS was able to learn problem solving skills that made it possible to understand and solve the different text tasks such as used in testing students at school (educational tests) or used in solving the crossword-puzzles.

KEYWORDS: shape understanding system, understanding text task, educational tests