## Summary

## A strategy of interactive learning of informatics within a network environment

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One of the main tasks within the framework of changing the educational system relates to the application of information technologies in the educational process. However, there is a lack of systematic and methodological basis for a strategy of institutionalised application of the interactive learning of informatics. This paper therefore proposes guidelines for the transformation of this important element within the integral strategy of the educational system in Bosnia and Herzegovina. The aim of the conducted research is the analysis of the present situation in the application of information science literacy in higher grades of primary schools, as well as the analysis of computer networks' role in providing the interactive learning of informatics, used as an existing basis in all counties (cantons).

The research has been conducted across Bosnia and Herzegovina and it included 4,253 pupils from 180 different primary school grades (from 5th to 9th grade). The practical segment of the research was based on surveying - teachers and students were interviewed in order to collect relevant information. The analytical segment of the research was based on descriptive statistical analysis. In order to transform the collected information into knowledge, Data Mining method was used, a process of the application of computer based technology, including new knowledge discovery techniques. The proposed research hypothesis, which has been partly expected, has thus been confirmed in an exact way. Within the framework of teaching informatics, it has been confirmed that the number of pupils in one grade whose learning is aided by the Internet, e-mail, WEB and computers influences the number of students who support the introduction of UND. Finally, we can conclude that the implementation of interactive learning strategy in the computer networks will provide faster dissemination of scientific achievements in the area of ICT application within the educational system.

**Key words:** information-communication technologies, informatics, strategy, interactive learning, computer networks.