METHODS OF TEACHING PROGRAMMING LANGUAGES TO SCHOOLCHILDREN: PROBLEMS AND SOLUTIONS

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ABSTRACT

The relevance of this topic is associated with the lack of quality specialists in the field of IT technologies with the development of computer technologies. In developed countries, digital technologies are primary and we cannot imagine our life without a smartphone, a personal computer or a software that serves in any field. Digital technologies are used in all areas of our society, especially in medicine, health care, information protection, education, filmmaking, designing space models, etc. Therefore, it is important to train quality specialists in this field. In order to train high-quality personnel, teaching programming languages to students through correct, specific and targeted methods is one of the urgent problems of today. This article analyzes the problems of teaching programming languages to schoolchildren and suggests solutions.

Keywords: Computer science, algorithmic thinking, algorithmization, programming, block diagram, Python, Scratch, programming language, mobile application.