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The contributions of computer science to mathematics education. Examples from outside curriculum

The world is slowly changing from a continuous one to a discrete one in many important fields. However, the educational world seems to be lagged behind. Logical reasoning, algorithmic problem solving and discrete mathematics have received very little attention in curriculums and in the teachers' preparation.

There have been some outside curriculum efforts in many countries (e.g. the CS Unplugged project, the MathIS project, the Bebras contest), also in Poland (e.g. the Koala competition), to present concepts of computing mathematics to children and teens.

It should be seen as a supplement of curriculums, but also as a tool to transform school curriculums in the future.

Keywords: outside curriculum, education unplugged approach, discrete mathematics in the schools, algorithmic problem solving, team competition