Teaching Mathematics and Computer Science

CS Unplugged in Higher Education

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Abstract. Nowadays, there is a significant lack of workforce in the IT industry, even though it is one of the most lucrative professions. According to researchers' forecasts, the existing shortage is growing, so the wages offered will be higher, yet it seems that young people are not attracted to the profession. This problem draws attention to the need to change the curriculum so that it can attract students more. One possible solution is to supplement the curriculum with *CS Unplugged* activities, which makes it easier to understand and deepen difficult concepts and make IT lessons more colorful. In my article, besides presenting the already known CS Unplugged activities, I will deal with how this can be applied in Hungarian higher education as well.

Key words and phrases: computer thinking, education, CS Unplugged, search, recursion, binary numbers, information theory.

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