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COMPUTER SCIENCE EDUCATION: TODAY AND TOMORROW

Nowadays, educational process in a modern university is getting much more diversified. Speaking about computer science in particular, we live in the age of fast-growing technological progress, involving the hardware and software development of the computing devices. Such a scientific revolution causes widening the areas of computing applications and growing the demands for their scalability. This means that lots of solutions of yesterday has become no more actual for solving the same typical present-day tasks. The traditional educational methods, as of prefetching all the courses ahead, are getting useless. The tutor must accommodate the science volatility in their particular branch to catch its best solutions in present.

Another factor is a big diversity of equipotential technologies, which can be applied to implement the same single task. Making the choice about the best technology for a particular solution of a typical task, is also lain on a tutor. This choice is a result of deep learning of the feedback from existing applications and personal experience. A bit of “sixth sense” is needed for this, when the scientific task is something really new and wasn't solved before.

All the learning can be easily done by means of mining the information via the search engines. Internet is developed enough to hold either all the needed information or the reasonable hints for its retrieval.

Thus, the tutor is no more just a narrator who keeps the planned prefetched course, but an expert who is capable of choosing the right direction of studying on-the-fly. Now the tutor has to deliver the actual information on studying technology, explain the advantages and disadvantages of each technique and develop in students a sense of choice, so they can estimate the power of different methods for solving their real tasks in future. The first step of such an education is teaching the students to optimally use the search engines in a branch of their science and to filter the useful information within the tons of articles and feedback.

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IMPROVEMENT OF TEACHING QUALITY ON CYBERSECURITY COURSES

Rapid expansion of information technologies raised a problem of appropriate level of information security ensuring. In real life people use electronic services of private companies, pay for the services by transferring money from one virtual