



Computational Thinking for Artificial Intelligence

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Prof. Jeannette Wing published an extremely influential article in the Communications of ACM entitled “Computational Thinking” when she was the President’s Professor of Computer Science in and head of the Computer Science Department at Carnegie Mellon University in 2006. We can find so many computational thinking principles in the machine learning which is the core component of mordant Artificial Intelligence. The success of mordant Artificial Intelligence, especially the deep learning, rests on not only sophisticated algorithms but also huge amount of data. In order to dealing with these huge amount of data it becomes obvious that computational thinking and A. I. are overlapping and interwoven. In this talk, the basic philosophy of computational thinking and machine learning will be briefly introduced. I will also share the A. I. thinking from my viewpoint, making the "correct" prediction and "precise" estimation□based on the available dataset. That is the means of that the machine “recognizes your face”, “understands your questions” and “drives the car for you”.