Construction of Basic Skill Knowledge for Drawing Pictures

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Knowledge has power to improve human activities including industry and culture. People acquire large amounts of knowledge from their experiences, but the knowledge is not usually systematized and thus artificial intelligence (AI) cannot utilize this knowledge for people. Recent AI technologies such as machine learning and natural language processing support knowledge discovery, but they require big data. Knowledge engineering approaches such as interviews or protocol analysis are also useful to acquire knowledge from human workers, but such approaches are costly because many knowledge engineers must devote their efforts to each people. Under those circumstances, we have proposed a new methodology to develop knowledge structure in order to systematize implicit knowledge explicitly. We designated that methodology as knowledge explication. We have already applied the method to elderly care, university education, and the autonomous vehicle domain already. Sports coaching, playing musical instruments and various kind of therapy are also under consideration. In this talk, we investigate possibility to apply the method to drawing pictures.