

***Abstract: Development of a Teaching-Learning Model of Robot-based Education***

Woochun Jun  
*Dept. of Computer Education*  
*Seoul National University of Education*  
*Seoul, Korea*  
*wocjun@snue.ac.kr*

**Abstract**

Currently robots are used in many real world application areas. Also, a robot can be a very useful tool in education field. Major advantage of robot-based education is to enhance creativity and logical thinking. In this paper, a teaching-learning model is presented for robot-based education. The proposed model is based on constructivism. The proposed model has the following characteristics. First, the proposed model is designed to enhance creativity and logical thinking of learners. Second, learners can participate in activities via diverse interaction. Third, the model provides motivation as early as possible. Fourth, in the proposed model, study process as well as robot product is monitored so that study steps of learners can be checked with ease.