

A Robotic Cube to Preschool Children for Acquiring the Mathematical and Colours Concepts

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Abstract : This work presents a robot called Conceptual Robotic Cube, CR-Cube. The robot can be used as an educational tool for children from the age of three. It has a cube shape attached with a camera colours sensor. In addition, it contains four wheels to move smoothly. The researchers prepared a questionnaire to measure the efficiency of the robot. The design and the questionnaire was presented to 11 experts who agreed that the robot is appropriate for learning numbering and colours for preschool children.

Keywords : CR-Cube, robotic cube, conceptual robot, conceptual cube, colour concept, early childhood education

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