

Educatronic Prototype for Learning Geometry, Based on a Multitouch Surface

Authors : Vicario Marina, Bustos Freddy, Olivares Jesús, Gómez Pilar

Abstract : This paper presents a didactic model and a tool as educational resources to support the learning of geometry; they focus on topics difficult to understand. The target population is elementary school students. The tool is based on a collaborative educational approach using multi-touch devices. The proposal is based on the challenges found in the instructional design and prototype implementation. Traditionally, elementary students have had many problems assimilating mathematical topics; this new Educatronic prototype facilitates the learning experience using exercises and they were tested with different children demonstrating the benefits of the prototype by improving their mathematical skills.

Keywords : educatronic prototype, geometry, multitouch surface, educational computing, primary school, mathematics, educational informatics

Conference Title : ICALT 2015 : International Conference on Advanced Learning Technologies

Conference Location : Los Angeles, United States

Conference Dates : September 28-29, 2015