

Model-Viewer for Setting Interactive 3D Objects of Electronic Devices and Systems

Authors : Julio Brégains, Ángel Carro, José-Manuel Andión

Abstract : Virtual 3D objects constitute invaluable tools for teaching practical engineering subjects at all -from basic to advanced- educational levels. For instance, they can be equipped with animation or informative labels, manipulated by mouse movements, and even be immersed in a real environment through augmented reality. In this paper, we present the investigation and description of a set of applications prepared for creating, editing, and making use of interactive 3D models to represent electric and electronic devices and systems. Several examples designed with the described tools are exhibited, mainly to show their capabilities as educational technological aids, applicable not only to the field of electricity and electronics but also to a much wider range of technical areas.

Keywords : educational technology, Google model viewer, ICT educational tools, interactive teaching, new tools for teaching

Conference Title : ICTE 2022 : International Conference on Technology and Education

Conference Location : Paris, France

Conference Dates : June 23-24, 2022