ABSTRACT

Currently the application of additive manufacturing (AM) has been widespread, but most users are engineers. So that non-engineer users are still difficult in the application of this technology. This is because to create a product must go through the design stage design using computer software aided-design (CAD) (Chua, Leong, & Lim, 2003). Software available today is still difficult to operate and requires professional guidance. Even a novice at a design or engineering school, it is still difficult to operate CAD software (Li & Tanaka, 2018). Therefore it takes a step or effort that can bridge the non-engineer user in the design process design. One effort that can be done is to simplify the design process using CAD Rhinoceros and Grasshopper software to implement generative algorithms in simplifying non-user engineers in the design design process so they can use AM like an engineer.

Keywords: Computer Aided-Design, Additive manufacturing, Orthosis, Generative Algorrithm.