Abstract

This work presents a Shape Grammar Interpreter to produce Indian traditional twisted wire jewelry designs implementing shape grammar approach. This formalism comprises a vocabulary of shapes and a set of shape rules that allows users to create, modify and generate twisted wire jewelry designs. The developed tool allows the designers to participate in design process through the parameter values. This framework can support the designers to create newer style of jewelry items easily and in faster way. The shape grammar approach is embedded in CAD technology to indeed help the designers in their creative jewelry designing process. This work is implemented in SOLIDWORKS using Visual Basic for Application (VBA).

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Index Terms

Computer Science                Algorithms

Keywords
Shape Grammar, Twisted Wire Jewelry, CAD.