

支持产品概念设计的草图技术 Sketch of Product Conceptual Design

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关键词: 草绘设计 草图理解 三维草图 概念设计

摘要: 通过对产品概念设计草图的语义研究,挖掘不同笔触中所蕴含的特征语义以及在透视投影方式下所完成的设计草图投影特征语义,来理解设计师所构思的产品对象,将模糊的草图信息转化为后端工程设计可利用的数据信息;改进已有算法,提出更符合设计师设计习惯的草绘技术,初步实现了支持概念设计的三维自由草绘。 Sketch of conceptual design was researched. Through digging the semantic of different strokes and perspective projection in the sketch, the design creation was recorded and comprehended. Then, the indistinct novel information of sketch was translated into useful information for back-end engineering design. Finally, we proposed a method that was more suitable for the design habit by improving previous algorithm, and primarily achieved 3-D sketch to support conceptual design.

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