

产品、研发、测试

基于顾客需求特征的眼镜产品配置设计研究

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摘要 基于顾客的脸形特征,面向产品的个性化设计需求,提出了采用参数化建立眼镜结构单元库和变形设计。利用顾客头部的正侧面照片合成人脸的三维模型并提取脸形特征参数,根据脸形特征参数构建顾客需求矩阵,基于顾客需求特征与眼镜产品结构单元之间的映射关系,提出了需求特征匹配算法。最后,给出了网络环境下由顾客、经销商和设计师协同参与的眼镜配置设计系统的框架结构。

关键词 [顾客需求特征](#) [产品配置](#) [特征映射](#) [个性化协同设计](#)

分类号

Research on eyeglasses configuration design based on feature of customer's requirement

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Abstract

Based on personalized facial feature and meeting the requirement of individual design product,the database of eyeglasses components and the deformation design by adopting parameterization technology are built,and 3D facial model is synthesized by making use of front and profile photos of customer's head and personalized facial feature parameters are extracted.The customer's requirement matrix is built by the facial feature parameters,and based on mapping relation of the customer's requirements and the eyeglasses components,matching search algorithm are put forward.Finally system architecture of eyeglasses configuration design in network environment is presented,which demandes collaborations of customer,dealer and designer.

Key words [Feature of customer's requirement](#) [product configuration](#) [feature mapping](#) [individual collaborative design](#)

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