

ISSN 1001-3563
CN 50-1094/TB

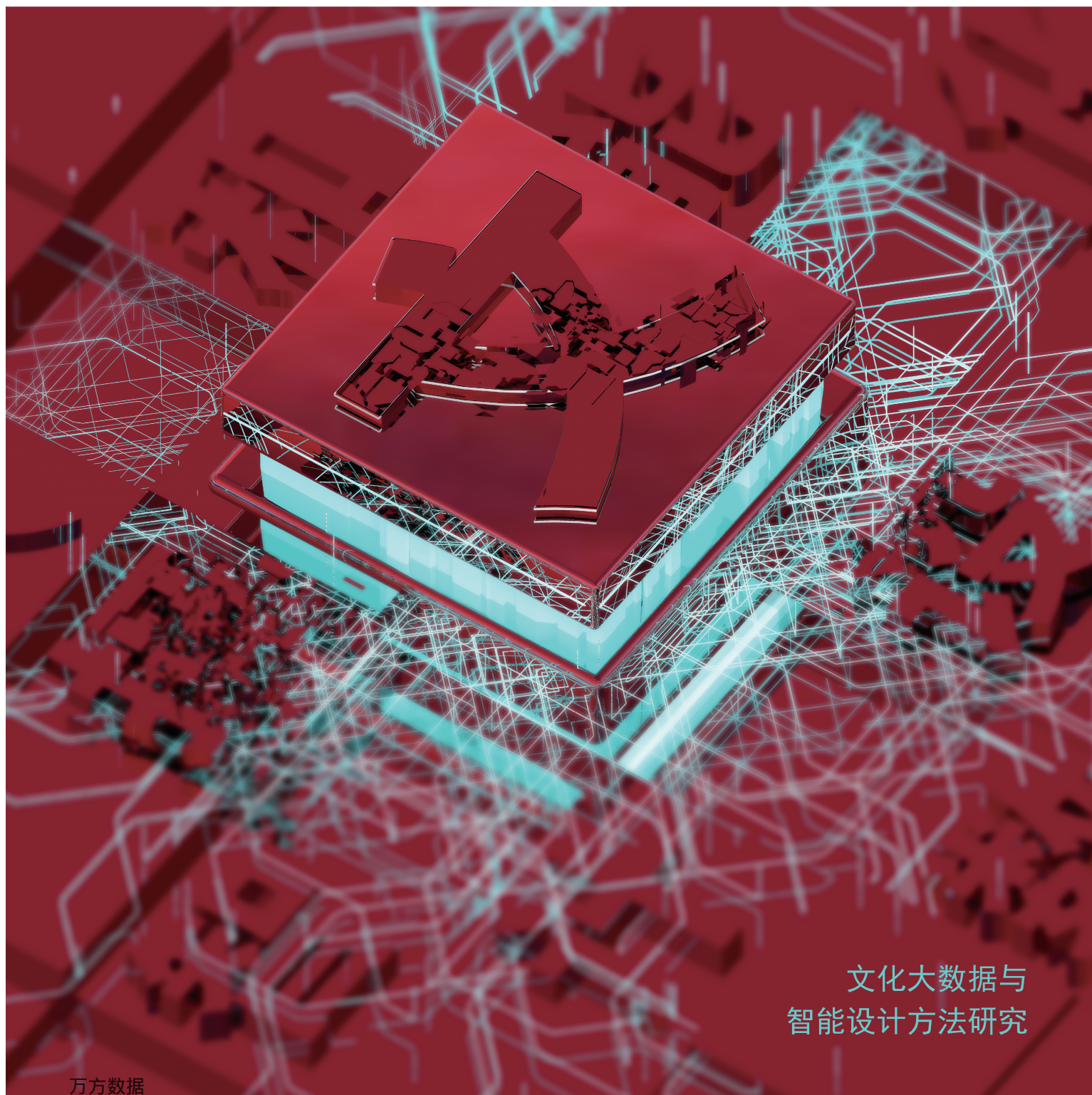
全国中文核心期刊

2021年7月 第42卷 第14期

主管单位：中国兵器装备集团有限公司
主办单位：中国兵器工业第五九研究所

包装工程

Packaging Engineering



文化大数据与
智能设计方法研究

包装工程

Packaging Engineering

第42卷 第14期 2021年7月20日

目次

专题：文化大数据与智能设计方法研究

- 文化大数据与智能设计平台综述 刘芳, 王遵富, 梁晓婷 1
国外生成式产品设计研究综述
刘永红, 黎文广, 季铁, 肖懿, 尤立思, 赵云彦 9
基于物理的布料模拟研究综述 雍俊海, 陈梓苗 28
基于分类器链的产品多标签意象识别方法
初建杰, 王鹏超, 陈晨, 史颖茜 40
基于数字孪生的革命旧址监测与预警系统研究 卢世主, 郭雨晴 47
从类型化到数字化: 传统村落保护路径建构研究
罗苒, 李鹏昊, 季铁 56
语义驱动的侗族织锦图案辅助设计路径研究
秦臻, 刘永红, 郑栋毅 65
特定风格剪纸艺术的智能生成 乔锦浩, 肖懿, 崔誉丹, 季铁 74

特别策划

- 碳纤维树脂基复合材料及成型工艺与应用研究进展
宋绪丁, 庞利沙 81
配色设计研究现状综述 刘肖健, 贾莹莹, 徐博群 92
智能互联时代的工业设计创新发展研究 刘宁, 杨芳 101
增强现实辅助装配技术综述 魏巍, 冯蓬勃, 陈峥廷, 迟昭娟 108

工业设计

- 自行式C型旅居车餐厨空间人机工程设计
陈国强, 刘雨豪, 申正义, 张芳兰 119
设计产业化驱动制造型企业转型的目标与方法探究
郑刚强, 王志, 张梦 126
设计思维视角下的设计问题复杂性探究 罗建平, 蔡军, 李潭秋 132
提升主观幸福感的积极体验设计策略 吴春茂, 田晓梅, 何铭锋 139
基于Kano-QFD的健身游戏系统优化设计 邓杏仪, 刘林, 张瑞秋 148
即时临场用户主观数据采集方法研究 慕爽, 刘正捷, 苏光华 155
应用于分布式食物生产的可持续产品服务系统设计研究
马可, 何人可, 张军, 高梦 164
基于CiteSpace的可持续产品服务系统商业模式研究
邱乐乐, 朱哲灏, 方田红 171
基于大数据图像处理的产品造型智能设计探索 李怡, 刘丽君 179
基于三角模糊和BP神经网络的产品意象造型设计
刘月林, 王习羽, 王剑 185
基于热点可视化的茶家具造型设计 林秋丽, 曹毕飞, 江丽君 194
中国古代传统家具的演进特征研究
周雪冰, 苏艳炜, 徐俊华, 强明礼 201
基于熵权—VIKOR法的椅类家具舒适性设计评价
尚凯, 陈哲, 常能, 彭欣 206

面向联合办公空间的家具设计研究	庞鲜, 曾婧	212
基于情感化设计的婴儿摇椅类产品设计研究	孙振闯, 李科平	219
智能音箱主动交互行为的用户满意度研究	赵颖, 谭浩, 朱敏, 袁翔, 李士岩	224
模块划分的榫卯结构在灯具设计中的应用	贾晶晶	230
青年群体对文创产品的属性认知与偏好关系研究	钱凤德, 丁娜	236
基于Kano模型的颈颅电磁治疗仪造型设计	王伟, 李阳	242
基于DFA的CRH高速列车外观造型基因提取及应用研究	黄佳智, 董石羽	249

视觉传达设计

老龄化社会网购商品包装设计的人文关怀	漆尉琦, 李素, 魏远廷	256
民国纺织产品商标设计的民族性解读	丛天柱, 崔荣荣	263
城市公交车站形象的意象感知研究与应用	尚宸光, 支锦亦, 景春晖, 戴昊宏	269
基于模糊层次分析法的地铁站名图形符号设计	李伟丽, 孙运豪, 苟锐	277
地铁列车内室剩余空间的视觉化设计要素研究	王汝婷, 戴端, 刘文阳	284

高校设计研讨

文创产品的趣味性设计	张苇, 黄畅畅	290
文化衍生产品非物质性优势设计更迭途径研究	唐学军	296
文化创意产品多元化设计研究与应用	蒋驹驹, 卢章平, 李明珠	302
产品设计视角下对传统艺术手法“留白”的应用解读	郝瑞敏, 宋金龙, 李勇, 刘夫永	312
产品设计中的情感因素	李云	318
微更新理念下的共享城市家具设计研究	詹华山	321
促进老人故事分享的道具形式设计探索	陈诗涵	329
安徽省乡村旅游精准扶贫的模式与策略	张晴, 娄明	337
生肖包装设计研究	胡术	345
首饰包装的互动式设计研究	李妍	351
基于博弈论的公交车外观装饰研究	宗威, 李涵, 郑湘晶, 马秉辉	357
极简主义在平面设计中的表现应用	王文英	362
基于反思层情感化设计的城市品牌动态海报研究	井溶	365
新媒体时代方言表情符号视觉化设计与应用研究	乔春梅	372
色彩元素在视觉传达设计中的创新应用	王娟	378
汉字立体化设计的实践探索	韦锦城	382
基于模糊综合评价的景区解说设施优化研究	李从治, 潘辉, 潘滢	388

信息索引

《文化大数据与智能设计方法研究》专题主编、序言介绍
 特别策划《碳纤维树脂基复合材料及成型工艺与应用研究进展》作者、序言介绍
 特别策划《配色设计研究现状综述》作者、序言介绍
 特别策划《智能互联时代的工业设计创新发展研究》作者、序言介绍
 特别策划《增强现实辅助装配技术综述》作者、序言介绍

期刊基本参数: CN 50-1094/TB*1980*s*A4*394*zh*P*¥45.00*5000*54*2021-07

PACKAGING ENGINEERING

(Initial Issue 1980) (Semimonthly) Vol.42 No.14 (Total No.452) Jul.20, 2021

Contents

Special Subject: Research on Cultural Big Data and Intelligent Design Methods

- Review on Cultural Big Data and Intelligent Design Platform
LIU Fang, WANG Zun-fu, LIANG Xiao-ting 1
- Review of Research on Generative Product Design Abroad
LIU Yong-hong, LI Wen-guang, JI Tie, XIAO Yi, YOU Li-si, ZHAO Yun-yan 9
- Review of Physics-Based Cloth Simulation
YONG Jun-hai, CHEN Zi-miao 28
- Product Multi-label Image Recognition Method Based on Classifier Chain
CHU Jian-jie, WANG Peng-chao, CHEN Chen, SHI Ying-xi 40
- Monitoring and Precaution System of Revolutionary Sites Based on Digital Twin
LU Shi-zhu, GUO Yu-qing 47
- From Typology to Digitalization: Research on Path Construction of Traditional Village Protection
LUO Jin, LI Peng-hao, JI Tie 56
- Aided Design Path of Dong Brocade Pattern Driven by Semantics
QIN Zhen, LIU Yong-hong, ZHENG Dong-yi 65
- Intelligent Generation for Specific Style of Paper-Cutting Art
QIAO Jin-hao, XIAO Yi, CUI Yu-dan, JI Tie 74

Special Planning

- Research Advances in Molding Technology and Application of Carbon Fiber and Its Resin Matrix Composites
SONG Xu-ding, PANG Li-sha 81
- Review on the Study of Color Design
LIU Xiao-jian, JIA Ying-ying, XU Bo-qun 92
- Development of Industrial Design in Intelligent and Internet Era
LIU Ning, YANG Fang 101
- Survey of Augmented Reality Assisted Assembly Technology
WEI Wei, FENG Peng-bo, CHEN Zheng-ting, CHI Zhao-juan 108

Industrial Design

- Ergonomic Design of Kitchen Space of Self-propelled C-type Recreational Vehicles
CHEN Guo-qiang, LIU Yu-hao, SHEN Zheng-yi, ZHANG Fang-lan 119
- Goal and Method of Design Industrialization Driving the Transformation of Manufacturing Enterprises
ZHENG Gang-qiang, WANG Zhi, ZHANG Meng 126
- Complexity of Design Problems from the Perspective of Design Thinking
LUO Jian-ping, CAI Jun, LI Tan-qiu 132
- Positive Experience Design Strategies to Improve Subjective Well-being
WU Chun-mao, TIAN Xiao-mei, HE Ming-feng 139
- Optimal Design of Fitness Game System Based on Kano-QFD
DENG Xing-yi, LIU Lin, ZHANG Rui-qiu 148
- Instant in-Situ User Subjective Data Collection Method
MU Shuang, LIU Zheng-jie, SU Guang-hua 155
- Design of Sustainable Product-Service System Applied to Distributed Production of Food
MA Ke, HE Ren-ke, ZHANG Jun, GAO Meng 164
- A Review of Sustainable Product-Service System (SPSS) Business Model Based on CiteSpace Maps
QIU Le-le, ZHU Zhe-hao, FANG Tian-hong 171
- Intelligent Design of Product Modeling Based on Big Data Image Processing
LI Yi, LIU Li-jun 179
- Product Image Modeling Design Based on Triangular Fuzzy and BP Neural Network
LIU Yue-lin, WANG Xi-yu, WANG Jian 185
- Design Method of Tea Furniture Modeling Based on Hot Spot Visualization
LIN Qiu-li, CAO Bi-fei, JIANG Li-jun 194

The Evolution Characteristics of Ancient Chinese Traditional Furniture and the Enlightenment to Contemporary Traditional Furniture

ZHOU Xue-bing, SU Yan-wei, XU Jun-hua, QIANG Ming-li 201

Evaluation of Chair Furniture Comfort Design Based on Entropy Weight-VIKOR Method

SHANG Kai, CHEN Zhe, CHANG Neng, PENG Xin 206

Furniture Design for Co-working Space PANG Xian, ZENG Jing 212

Design of Infant Rocking Chair Based on Emotional Design

SUN Zhen-chuang, LI Ke-ping 219

User Satisfaction of Proactive Interaction Behavior of Intelligent Speakers

ZHAO Ying, TAN Hao, ZHU Min, YUAN Xiang, LI Shi-yan 224

Application of Mortise-Tenon Connection of Module Division in Lamp Design

JIA Jing-jing 230

Young People's Attribute Cognition and Preference for Cultural and Creative Products

QIAN Feng-de, DING Na 236

Modeling Design of Transcranial Electromagnetic Therapy Device Based on Kano Model

WANG Wei, LI Yang 242

Application and Extraction of Exterior Appearance Gene of CRH High-speed Train Based on DFA

HUANG Jia-zhi, DONG Shi-yu 249

Visual Communication Design

On the Humanistic Care of Packaging Design of Online Products in the Aging Society

QI Wei-qi, LI Su, WEI Yuan-ting 256

Nationalism in the Trademark Design of Textile Products in the Republic of China

CONG Tian-zhu, CUI Rong-rong 263

Study and Application on Image Perception of Urban Bus Station Image

SHANG Chen-guang, ZHI Jin-yi, JING Chun-hui, DAI Hao-hong 269

Graphic Symbol Design of Subway Station Name Based on Fuzzy Analytic Hierarchy Process

LI Wei-li, SUN Yun-hao, GOU Rui 277

Visual Design Elements of Residual Space in Metro Train Interior Room

WANG Ru-ting, DAI Duan, LIU Wen-yang 284

Study of College Design

Interesting Design of Cultural and Creative Products

ZHANG Wei, HUANG Chang-chang 290

Changing Ways of Immaterial Advantage Design of Cultural Derivative Products

TANG Xue-jun 296

Research and Application of Diversified Design of Cultural and Creative Products

JIANG Si-ju, LU Zhang-ping, LI Ming-zhu 302

Application Interpretation of Traditional Art Technique of Blank Leaving from the Perspective of Product Design

HAO Rui-min, SONG Jin-long, LI Yong, LIU Fu-yong 312

Emotional Factors in Product Design

LI Yun 318

Design of Shared Urban Furniture under the Concept of Micro-renewal

ZHAN Hua-shan 321

Design Exploration of Props Forms to Promote the Sharing of Stories among the Elderly People

CHEN Shi-han 329

The Model and Strategy of Targeted Poverty Alleviation on Rural Tourism in Anhui Province

ZHANG Qing, LOU Ming 337

Packaging Design of Chinese Zodiac

HU Shu 345

Interactive Design of Jewelry Packaging

LI Yan 351

Bus Appearance Decoration Based on Game Theory

ZONG Wei, LI Han, ZHENG Xiang-jing, MA Bing-hui 357

Analysis on the Application of Minimalism in Graphic Design

WANG Wen-ying 362

City Brand Dynamic Posters Based on Reflective Emotional Design

JING Rong 365

Visual Design and Application of Dialect Emoticons in the New Media Era

QIAO Chun-mei 372

Innovative Application of Color Elements in Visual Communication Design

WANG Juan 378

Exploration of Chinese Characters Stereoscopic Design

WEI Jin-cheng 382

Optimization Research of Scenic Interpretive Facility Based on Fuzzy Comprehensive Evaluation

LI Cong-zhi, PAN Hui, PAN Ying 388