

本期主题:设计赋能儿童心智

ENERGIZING CHILDREN'S MIND THROUGH DESIGNING

张梦阳——对美育教育的认识与思考

Zhang Mengyang—Understanding and Reflections on Aesthetic Education



工业设计

INDUSTRIAL DESIGN

OBE理念下环境设计专业课程体系构建研究
Research on Construction of Environmental Design
Major Curriculum System under OBE Concept

无意识设计中多角度挖掘用户隐性需求研究
Research on Excavating Users' Hidden Demands from
Multi-Perspective in Unconscious Design

基于服务设计思维的城市老年人公共巴士设计研究
Research on Design of Urban Aged Bus Based on Service
Design Thinking



高校美育教育大家谈

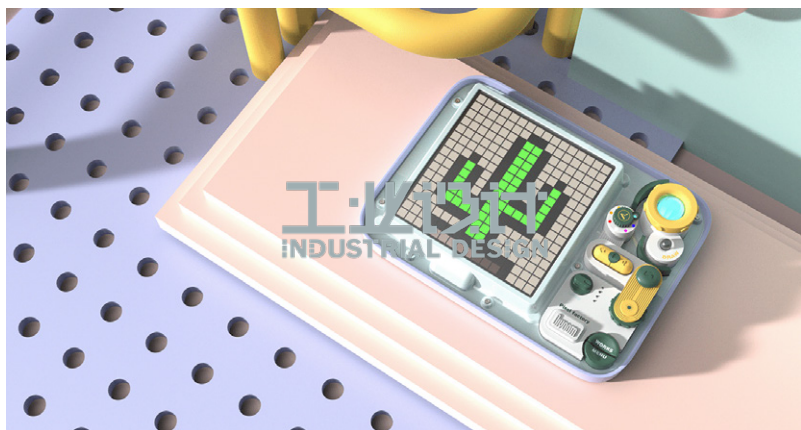
008 张梦阳——对美育教育的认识与思考

主题资讯

- 010 给好奇的孩子看的智能相机
- 011 AR 3D 行空笔, 让孩子的想象力变为现实
- 012 ActivePuzzle—电子拼图玩具
- 013 Micro:bit 可编程智能车
- 014 儿童教育机器人套装
- 015 儿童 DIY 机器人工具包, 使纸板碎片变得鲜活起来
- 016 Kontu 磁性积木, 多方面启迪儿童智慧
- 017 D3C——儿童智慧英语早教点读笔
- 018 FIN:D—发挥孩子的想象力
- 019 水果 / 儿童学习书
- 020 Mumu : 让孩子在熟悉的生活中启迪心智
- 021 让孩子在美的环境中自由成长
- 022 激发儿童想象力的“浮冰”
- 023 让孩子们适度地接触科技的学习玩具
- 024 给孩子留下美好记忆的园艺套件
- 025 像素画板

INDUSTRIAL DESIGN NO.5

CONTENTS 目录



科学与艺术

- 026 基于心理模型的生理期 APP 优化设计探索
- 028 艺术设计与通信及信息系统的关系探析
- 030 参数化设计在产品中的应用——以音箱设计为例

许世虎 段可玥
戚楠 关佳征
贾若愚 刘永翔

高等美术教育

- 032 岗位需求导向的《交互设计》课程实践教学探索
- 034 OBE 理念下环境设计专业课程体系构建研究
- 036 基于“双钻模型”的设计课程混合式教学改革研究——以《立体构成》为例
- 038 虚拟现实技术在数控机床教学中的应用研究
- 040 Kolb 体验学习法在设计史论课程中的应用研究
- 042 混合式教学模式在《景观设计》课程中的应用研究
- 044 应用技术型院校一流环境设计专业的建设路径研究
- 047 视觉传达设计专业《装饰与图案》课程思政教学研究
- 049 艺术设计类专业技术技能型人才的工匠精神培养研究
- 051 基于多元智能理论的《摄影基础》课程教学方式研究
- 053 基于“专创融合”的工作室化教学实践与探索

冯海英
魏瑛
陈静文
曲振波 王继禹
刘牛
徐伟琴
张春庆 李晓辉 闫奇峰
佟鑫 赵鹏 刘沅元
刘大欣 庄伟 刘海钰
谭志平
王权朝

设计与理论

- 055 无意识设计中多角度挖掘用户隐性需求研究
- 057 家庭药品回收设施设计
- 059 广州动物园的长颈鹿投喂体验服务优化设计研究
- 062 基于服务设计思维的城市老年人公共巴士设计研究
- 066 室内防灾减灾产品设计研究
- 068 基于生态设计理念的婴幼儿玩具设计策略
- 070 基于 CMFP 的儿童辅食锅设计研究
- 072 仿生设计要素在产品中的应用
- 074 面向自闭症儿童的体感游戏设计研究
- 076 地域文化产业中的城市品牌设计研究
- 078 海南旅游企业集团品牌整合设计研究
- 080 基于桂林文化的旅游品牌形象设计策略研究

许文秀 王建华
李多 侯佳琪
黄加玮
周桐 杜海滨
张与洋 金鸿儒 万辉
刘依文 张浩 赵艳
潘德赢 黄志荣 雷杰
范丰源
于阔 邵兵
吕青 刘春媛
徐龙翔
李亚楠 彭玉元



1

First

INDUSTRIAL DESIGN NO.5

CONTENTS 目录



2

Second

- 082 图形创意在招贴设计中的应用分析
 - 084 商业插图在现代包装设计中的应用研究
 - 086 旧工业建筑的改造与再利用研究
 - 088 时代发展下的现代多功能书柜设计研究
 - 090 基于用户体验的旅游厕所优化设计——以广西三江大侗寨景区为例
 - 092 绿色生态理念在幼儿园建筑设计中的应用研究
 - 094 基于生命周期的婴童家具可持续设计研究
 - 096 基于无意识设计理念的办公文具设计研究
 - 098 基于文献计量法的防震家具设计研究现状及发展趋势分析
 - 100 弹性设计理念在滨水景观中的应用——以金华燕尾洲公园为例
 - 102 乡村旅游背景下的主题民宿室内设计研究
 - 104 窗帘在空间设计中的应用研究
 - 106 老年公寓家具的系列化设计研究
 - 108 绍兴地区农村户外健身器材现状及适老化设计研究
 - 110 基于现代美学的户外家具设计探究
 - 112 设计模型与用户模型在工业设计中的异同性研究
- 赵如馨
 - 李 明
 - 梁佳纯
 - 王亦凡
 - 刘宗明 陆柳亦
 - 范 蓓 李润坤
 - 麦嘉雯 刘依文 朱俊峰
 - 陈春雷 朱文静 石梦迪
 - 鞠文欣 朱代根
 - 朱 华 杨 琛
 - 李冰虹
 - 钱东洋 孟逸飞 杨春锁
 - 余 力 王占伟 朱奕波
 - 倪世明
 - 钟 翔
 - 刘正一 李 冉

前沿与动态

- 114 基于业务流程重构法的无人便利店服务系统优化设计
 - 117 基于服务设计理念的智能旅游 APP 设计研究
 - 119 创意思维在虚拟现实游戏设计中的应用
 - 121 基于体验设计的移动短视频设计研究——以抖音为例
 - 124 新媒体环境下产品设计的现状与发展趋势
 - 126 交互式智能技术在玩具设计中的应用研究
- 李 妮 管少平
 - 韩 璘 庄 浩 耿新龙
 - 张瑞杰 孙雨馨
 - 魏文静
 - 张博凯
 - 张 雯

文化与传承

- 129 基于符号学理论的明式家具结构美学刍议
 - 131 明式家具传统纹样在新中式室内设计风格中的应用
 - 133 浅析明代瓷器中的蕉叶纹饰特征研究
 - 135 基于重庆地域文化的火锅餐具设计探索
 - 137 非物质文化遗产背景下的黑龙江民间美术发展现状述评
 - 140 历史旧物介入空间设计的方式探究
 - 142 基于三维打印技术的甘肃红色旅游纪念品开发研究
 - 145 中国元素在数字媒体艺术设计中的应用
 - 147 论古代西方器具造型及纹样对现代设计的启示
 - 149 羊城新八景元素在利是封设计中的运用
 - 151 蒙古族刺绣在文化创意产品设计中的应用
 - 153 浅谈冰雪雕刻艺术的造型设计研究
- 李德君 徐晓杰 刘 卉
 - 张晨阳
 - 张银琳
 - 刘 倩 王崇东
 - 欧阳安
 - 李 刚
 - 范 芸
 - 金磊磊
 - 何 晴
 - 吴兵娥 苏镁玲
 - 丁 念
 - 乔 横

技术与实践

- 155 基于产品系统设计理论的家用空气净化器设计
 - 157 公交车室内绿化设计研究
 - 159 便携式 ECMO 医疗急救器械设计研究
- 汪 琦
 - 杨 莹 孟千翔 袁进东
 - 冯鹰扬 雷志斌

封二

儿童智能机器人

封三

《工业设计》杂志征订启事

COLLEGE AESTHETIC EDUCATION EVERYBODY TALKS

008 Zhang Mengyang—Understanding and Reflections on Aesthetic Education

TOPIC INFORMATION

- 010 A Smart Camera for Curious Kids
- 011 AR 3D Line Space Pen, Turn Children's Imagination into Reality
- 012 ActivePuzzle-Electronic Puzzle Toy
- 013 Micro:bit PLC Smart Car
- 014 Children's Education Robot Kit
- 015 Children's DIY Robot Tool Kit, Paperboard Chips Become Live and Fresh
- 016 Kontu Magnetic Blocks, Enlighten Children's Wisdom from Many Aspects
- 017 D3C-Children's Wisdom English Early Education Talking Pen
- 018 FIN:D-Exert the Imagination of Children
- 019 Fruits/Books for Children's Study
- 020 Mumu: Make the Kids to Enlighten Their Mind in a Familiar Life
- 021 Make the Kids Freely Growing Up in a Beautiful Environment
- 022 "Floating Ice" Inspiring the Children's Imagination
- 023 Learning Toys for the Children to Moderately Get in Touch with Science and Technology
- 024 gardening Kit Giving Beautiful Memories to Kids
- 025 Divoom Pixel Factory

SCIENCE AND ART

- 026 Exploration on Optimized Design of Menstrual Period APP Based on Mental Models
- 028 The Relationship Between Art Design and Communication and Information System
- 030 The Analysis on the Application of Parametric Design in Product Design—Take a Speaker Design as an Example

INDUSTRIAL DESIGN NO.5 CONTENTS 目录

3

Third

Xu Shihu, Duan Keyue
Qi Nan, Guan Jiazheng
Jia Ruoyu, Liu Yongxiang

HIGHER EDUCATION OF FINE ARTS

- 032 Exploration on Post Demand Oriented "Interactive Design" Course Practice Teaching
- 034 Research on Construction of Environmental Design Major Curriculum System under OBE Concept
- 036 Research on Blended Teaching Reform of "Double Drill Model" Based Design Course—Take "3D Construction" as An Example
- 038 Research on Application of Virtual Reality Technology in CNC Machine Tool Teaching
- 040 Research on Application of Kolb Experimental Learning Method in the Course of Design History Theory
- 042 Research on Application of Blended Teaching Model in the Course of "Landscape Design"
- 044 Research on Constructional Path to First-Rate Environmental Design Major at Application-oriented Colleges and Universities
- 047 Research on Ideological Instruction Teaching for "Decoration and Patterns" Course of Visual Communication Design Major
- 049 Research on Cultivation of Craftsmanship for Professional Skill Type Talents Majoring in Art Design
- 051 Research on the Teaching Method of "Photography Foundation" Course Based on the Theory of Multiple Intelligences
- 053 "Professional and Innovation Integration" Based Studio-Type Teaching Practice and Exploration

Feng Haiying
Wei Ying

Chen Jingwen
Qu Zhenbo, Wang Jiyu
Liu Niu
Xu Weiqin
Zhang Chunqing, Li Xiaohui, Yan Qifeng
Tong Xin, Zhao Peng, Liu Fengyuan
Liu Daxin, Zhuang Wei, Liu Haiyu
Tan Zhiping
Wang Quanchao

DESIGN AND THEORY

- 055 Research on Excavating Users' Hidden Demands from Multi-Perspective in Unconscious Design
- 057 Design of Family Medicine Recycling Facilities
- 059 Optimal Design of Giraffe Feeding Experience Service in Guangzhou Zoo
- 062 Research on Design of Urban Aged Bus Based on Service Design Thinking
- 066 Research on Design of Indoor Disaster Prevention and Mitigation Products
- 068 Strategy for Design of Infant Toys Based on Ecological Design Concept
- 070 Research on Design of Supplementary Food Pot for Kids Based on CMFP
- 072 Application of Bionic Design Elements in Product Design
- 074 Research on Design of Motion Sensing Game Facing Autistic Children
- 076 Research on Urban Brand Design in Regional Cultural Industry
- 078 Research on Brand Integrated Design of Hainan Tourist Enterprise Group
- 080 Research on Strategies for Tourist Brand Image Design Based on Guilin Culture
- 082 Analysis on Application of Graph Creativity in Poster Design

Xu Wenxiu, Wang Jianhua
Li Duo, Hou Jiaqi
Huang Jiawei
Zhou Tong, Du Haibin
Zhang Yuyang, Jin Hongru, Wan Hui
Liu Yiwen, Zhang Hao, Zhao Yan
Pan Deying, Huang Zhirong, Lei Jie
Fan Fengyuan
Yu Kuo, Shao Bing
Lv Qing, Liu Chunyuan
Xu Longxiang
Li Yanan, Peng Yuyuan
Zhao Ruxin

INDUSTRIAL DESIGN NO.5

CONTENTS 目录

- 084 Research on Application of Commercial Illustrations in Design of Modern Packages
- 086 Research on Renovation and Reuse of Old Industry Buildings
- 088 Research on Design of Modern Multi-Function Bookshelf with Development of Era
- 090 Optimized Design of Tourist Toilet Based on Users' Experiences—Take Sanjiang Dadongzhai Scenic Spot in Guangxi as An Example
- 092 Research on Application of Green Ecological Concept in Kindergarten Architectural Design
- 094 Research on Sustainable Design of Infants' Furniture Based on Life Cycle
- 096 Research on Design of Office Stationeries Based on Unconscious Design Philosophy
- 098 Analysis on Current Research Situation and Development Trend of Quakeproof Furniture Design Based on Bibliometric Method
- 100 Application of Elastic Design Philosophy in Waterfront Landscape—Take Yanweizhou Park in Jinhua as An Example
- 102 Research on Indoor Design of Theme Homestay in Rural Tourist Background
- 104 Research on Design of Curtains in Space Design
- 106 Research on Serial Designs of Furniture for Apartments for the Aged
- 108 Research on Current Situation and Elderly-Oriented Design of Outdoor Fitness Equipment in Rural Areas in Shaoxing
- 110 Exploration of Outdoor Furniture Design Based on Modern Aesthetics
- 112 Research on Similarities and Differences between Design Models and Users' Models in Industrial Design

Li Ming
Liang Jiachun
Wang Yifan

Liu Zongming, Lu Liuyi
Fan Bei, Li Runkun
Mai Jiawen, Liu Yiwen, Zhu Junfeng
Chen Chunlei, Zhu Wenjing, Shi Mengdi

Ju Wenxin, Zhu Daigen
Zhu Hua, Yang Chen
Li Binghong
Qian Dongyang, Meng Yifei, Yang Chunsuo
Yu Li, Wang Zhanwei, Zhu Yibo
Ni Shiming
Zhong Xiang
Liu Zhengyi, Li Ran

FRONTIERS AND DYNAMICS

- 114 Optimized Design of Unmanned Convenience Store Service System Based on ESICO Method
- 117 Research on Design of Smart Tourist APP Based on Service Design Concept
- 119 Application of Creative Thinking in Design of VR Games
- 121 Research on Design of Mobile Short Video Based on Experience Design—Take Tik Tok as An Example
- 124 Current Situation and Development Trend of Product Design in New Media Environment
- 126 Research on Application of Interactive Intelligent Technology in Toy Design

Li Ni, Guan Shaoping
Han Lin, Zhuang Hao, Geng Xinlong
Zhang Ruijie, Sun Yuqing
Wei Wenjing
Zhang Bokai
Zhang Wen

CULTURE AND INHERITANCE

- 129 Humble Opinions about Structural Aesthetics of Ming Dynasty Style Furniture Based on Semiotics Theory
- 131 Application of Traditional Graphic Patterns from Ming Dynasty Style Furniture in New Chinese Style Indoor Design
- 133 A Preliminary Discussion on Research of Banana Leaf Ornamentation in Porcelains of Ming Dynasty
- 135 Exploration on Design of Hotpot Tableware Based on Regional Culture of Chongqing
- 137 Comments on Current Development Situation of Folk Fine Arts in Heilongjiang in the Intangible Cultural Heritage Background
- 140 Study on the Ways of Historical Objects Involved in Space Design
- 142 Research of Revolutionary Souvenirs in Gansu Based on 3D Printing Technology
- 145 Application of Chinese Elements in Design of Digital Media Art
- 147 Discussion on Enlightenment from Western Utensil Modeling and Patterns in Ancient Times to Modern Design
- 149 Application of New Eight Sights Elements in Guangzhou City in Red Envelope
- 151 Application of Mongolian Embroidery in Design of Cultural Originality Products
- 153 A Preliminary Discussion on Research of Modelling Design in Ice and Snow Engraving Art

Li Dejun, Xu Xiaojie, Liu Hui
Zhang Chenyang
Zhang Yinlin
Liu Qian, Wang Chongdong

OuYang An
Li Gang
Fan Yun
Jin Leilei
He Qing
Wu Bingge, Su Meiling
Ding Nian
Qiao Heng

TECHNOLOGY AND PRACTICE

- 155 Design of Home Air Purifiers Based on Product System Design Theory
- 157 Study on Indoor Greening Design of Bus
- 159 Research on Design of Portable ECMO Emergency Medical Aid Apparatus

Wang Qi
Yang Ying, Meng Qianxiang, Yuan Jindong
Feng Yingyang, Lei Zhibin

SECOND COVER

Children's Intelligent Robot

THIRD COVER

Subscription Info of *Industrial Design*

4

Fourth