Appendix C-3 Papers, patents, research award, research projects

Contents

Representative Paper				
Number	**Title**	**Author**	**Journal/Conference**	**Dates**
1	Sustainable Design Strategy of Cosmetic Packaging in China Based on Life Cycle Assessment	Zhongming Ren, Doudou Zhang, Zhu Gao	Sustainability (Switzerland)	2022/7/1
2	The Color Planning Method of Shanghai New City Based on Big Data and Artificial Intelligence	Yi Zhuang	Wireless Communications and Mobile Computing	2022/1/1
3	Natural Color System Quantization Design of Economy Class Seat Driven by Perceptual Imagery	Jianghua Xu; Shuangle Ding	Advances in Physical, Social & Occupational Ergonomics	2021/7/15
5	A Revisit of Objective Measurement and Subjective Measurement: Basic Concept and Application	Mengya Cai, Zhu Gao, Wenjun Zhang	Advances in Intelligent Systems and Computing	2021/1/1
5	Towards a Taoist aesthetics of data visualization	Qi Li	DIGITAL SCHOLARSHIP IN THE HUMANITIES	2020/9/1
6	Park Accessibility Analysis Based on Location Information and GIS: Take Shanghai Hongkou District As An Example	Ziran Zhang	IOP Conference Series: Materials Science and Engineering	2020/5/28
7	Embodying data: Chinese aesthetics, interactive visualization and gaming technologies	Qi Li	Embodying Data: Chinese Aesthetics, Interactive Visualization and Gaming Technologies	2020/1/1

Photocopy of publications

sustainability

MDPI

Article

Sustainable Design Strategy of Cosmetic Packaging in China Based on Life Cycle Assessment

Zhongming Ren *, Doudou Zhang and Zhu Gao

School of Art and Design, Shanghai University of Engineering Science, Shanghai 201620, China; dzhangspfz@163.com (D.Z.); 07160001@sues.edu.cn (Z.G.)
* Correspondence: zren@sues.edu.cn

Abstract: Consumptions of cosmetics present a steady growth trend from 2018 to 2021 in China. While environmental impact generated are becoming prominent issues. Numbers of research on the sustainability of cosmetics are focusing on ingredient choices and production; however, the packaging generates more impact than the ingredient extraction in some specific scenarios, and it should be paid more attention to. The role of packaging deserves deep consideration under the background of a circular economy. This research aims to: (i) figure out the impact hotspot through life cycle assessment (LCA) of representative cosmetic packaging in the Chinese market, (ii) conduct a series of sensitivity analyses to figure out to what extent these potential scenarios influence the environmental performance of the packaging, (iii) obtain the significance of these variables to the sustainable design of the packaging. Finally, a set of sustainable design strategies for cosmetic packaging are proposed for the designer from the aspect of facilitating user reuse and recycling behaviour, material selection, and others.

Keywords: sustainable design; design strategy; packaging; cosmetic; LCA

Citation: Ren, Z.; Zhang, D.; Gao, Z. Sustainable Design Strategy of Cosmetic Packaging in China Based on Life Cycle Assessment. *Sustainability* **2022**, *14*, 8155. https://doi.org/10.3390/su14138155

Academic Editor: Yuri Borgianni

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Published: 4 July 2022

1. Introduction

With the rapid development of the living standard in China, the demand for cosmetics has grown steadily in recent years. The pursuit of external beauty and a delicate impression may become the major drives after the rise in living conditions, along with economic growth. Cosmetics are switching their role from alternative merchandise to daily necessities underpinned by thriving e-commerce.

As Figure 1 shows, the retail value of the cosmetics category in China kept growing from 2018 to 2021. Current period values illustrated there were three sales peaks in one year, March, the period after the Chinese New Year, June and November, and two shopping festivals, 618 and Double 11. The year-on-year and cumulative growth rates were greater than zero in most of the period; it only dropped below zero during the initial stage of the COVID-19 epidemic period, from January to June 2020, and grew again after the epidemic was under control; moreover, a huge growth appeared in March 2021. A notable growth in retail sales can be predicted. Accordingly, cumulative values presented an increasing trend as the peaks were higher and higher yearly [1].

Meanwhile, a male consumption consciousness of cosmetics is awakening recently; 10 million units of merchandise were stocked for Double Eleven Shopping Day in 2020, which was almost twice as much as in 2019. In addition, imported cosmetics for men have grown rapidly, by nearly 3000%; a previous report has shown that 31% of men expressed they would never use them, but the proportion had decreased to 10% in 2019 [2]. Skincare products for men increased by 30% in 2020 [3].

With the rapid rise in sales, waste of cosmetic packaging after the use stage increases at the same time. Furthermore, a shift from reusable packaging to single-use one due to globalisation and simplification of the supply chain is observed [4]. The relationship

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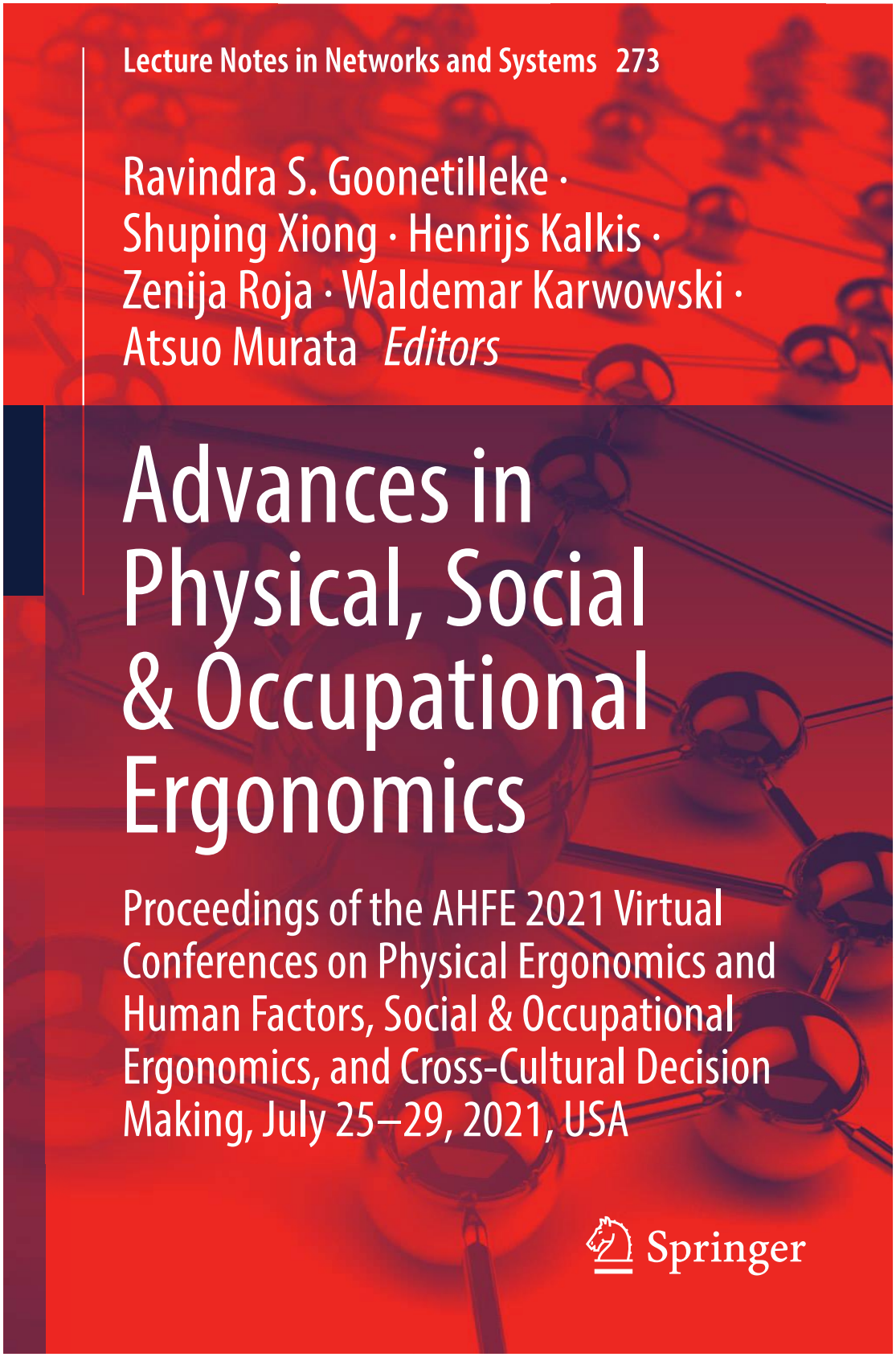
Lecture Notes in Networks and Systems 273
Ravindra S. Goonetilleke · Shuping Xiong · Henrijs Kalkis · Zenija Roja · Waldemar Karwowski · Atsuo Murata Editors
Advances in Physical, Social & Occupational Ergonomics
Proceedings of the AHFE 2021 Virtual Conferences on Physical Ergonomics and Human Factors, Social & Occupational Ergonomics, and Cross-Cultural Decision Making, July 25–29, 2021, USA
Springer

A Revisit of Objective Measurement and Subjective Measurement: Basic Concept and Application

Mengya Cai[1], Zhu Gao[1(✉)], and Wenjun Zhang[2(✉)]

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caimengya88@163.com, gao65zhu@163.com
[2] Department of Mechanical Engineering, University of Saskatchewan, 57 Campus Dr., Saskatoon, Saskatchewan S7N 59, Canada
Chris.Zhang@usask.ca

Abstract. Measurement is foundational to learn, research, and design an artificial system. Precisely measuring human factors especially human mind in systems is a common and important problem. Basically, the measurement methods are categorized as either objective or subjective measurement. Recently, tendency is emerging that objective measurement is preferred widely but subjective measurement is despised. To judge the tendency, this paper revisited the basic concept of measurement first, and re-declared the definition of objective and subjective measurement. Tools of measurement were also discussed generally. Second, four criterions were proposed to judge a measurement, and a review of the debate between the two measurements shows that subjective measurement is the counterparts of objective measurement. Choice of one from the two depends on specific applications. This paper further discussed the application of subjective measurement. Three challenges were proposed which are still open to address. In conclusion, further researches on subjective measurement is indispensable.

Keywords: Subjective measurement · Objective measurement · Human mind · Human factors · Subjective information processing

1 Introduction

In science, technology and engineering, measurement of a system is fundamental, secondary to its definition. For example, certain temperatures need to be measured to make a temperature control system function well, the internal pressure of a pressure vessel needs to be measured to guarantee the equipment to be safe, the users' fatigue level or mental workload needs to be measured during human-machine interaction to avoid human error, etc. Obviously, human-machine system is special due to human factors involved. How to measure human factors especially human mind in such a system precisely is basic and important.

W. Karwowski et al. (Eds.): IHSED 2020, AISC 1269, pp. 129–135, 2021.
https://doi.org/10.1007/978-3-030-58282-1_21

附录：《Social Sciences Citation Index》（SSCI）收录的情况

1. 标题: Towards a Taoist aesthetics of data visualization

作者: Li, Q (Li, Qi)

来源出版物: DIGITAL SCHOLARSHIP IN THE HUMANITIES 卷: 35 期: 3 页: 601-614 DOI: 10.1093/llc/fqz047 出版年: SEP 2020

Web of Science 核心合集中的 "被引频次": 1

被引频次合计: 1

使用次数 (最近 180 天): 0

使用次数 (2013 年至今): 0

引用的参考文献数: 56

摘要: As a dominant Western aesthetics, the Kantian sublime involves power over nature perceived from a distance. In the Kantian model, the sublime oscillates between the mathematical sublime-emphasizing the vastness of nature that exceeds the comprehension of the viewer-and the dynamic sublime, in which the viewer attempts to establish a sense of control over nature. In big data visualization based on the sublime, users tend to apprehend the magnitude of data from a distance, provoking an experience of fear or awe over the immense scale of technology. Such a model is predicated on a dualism between body and data. In contrast to Kantian dualism, Taoist philosophy privileges the integration of data, body, and nature. This article theorizes the Taoist body in relation to digital technology by, firstly, critiquing the Kantian sublime that underpins much data visualization. Visualization based on Taoist embodiment leads to a more harmonious integration of human experience and data, promoting emotional, psychological, and health-related dimensions. Towards a model of Taoist embodiment of big data, interactive digital technology is key. This article concludes with examples of data-based, participatory, and installation art, including my interactive work Taiji (2013-15) centred on the embodied visualization of electroencephalography data.

I:\研究与写作\检索证明单\微信图片_20210403213843.png

入藏号: WOS:000584511000007

语言: English

文献类型: Article

KeyWords Plus: EXPERIENCE; ART

地址: [Li, Qi] Shanghai Univ Engn Sci, Sch Art & Design, 333 Longteng Rd, Shanghai 201620, Peoples R China.

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电子邮件地址: qili@sues.edu.cn

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ISSN: 2055-7671

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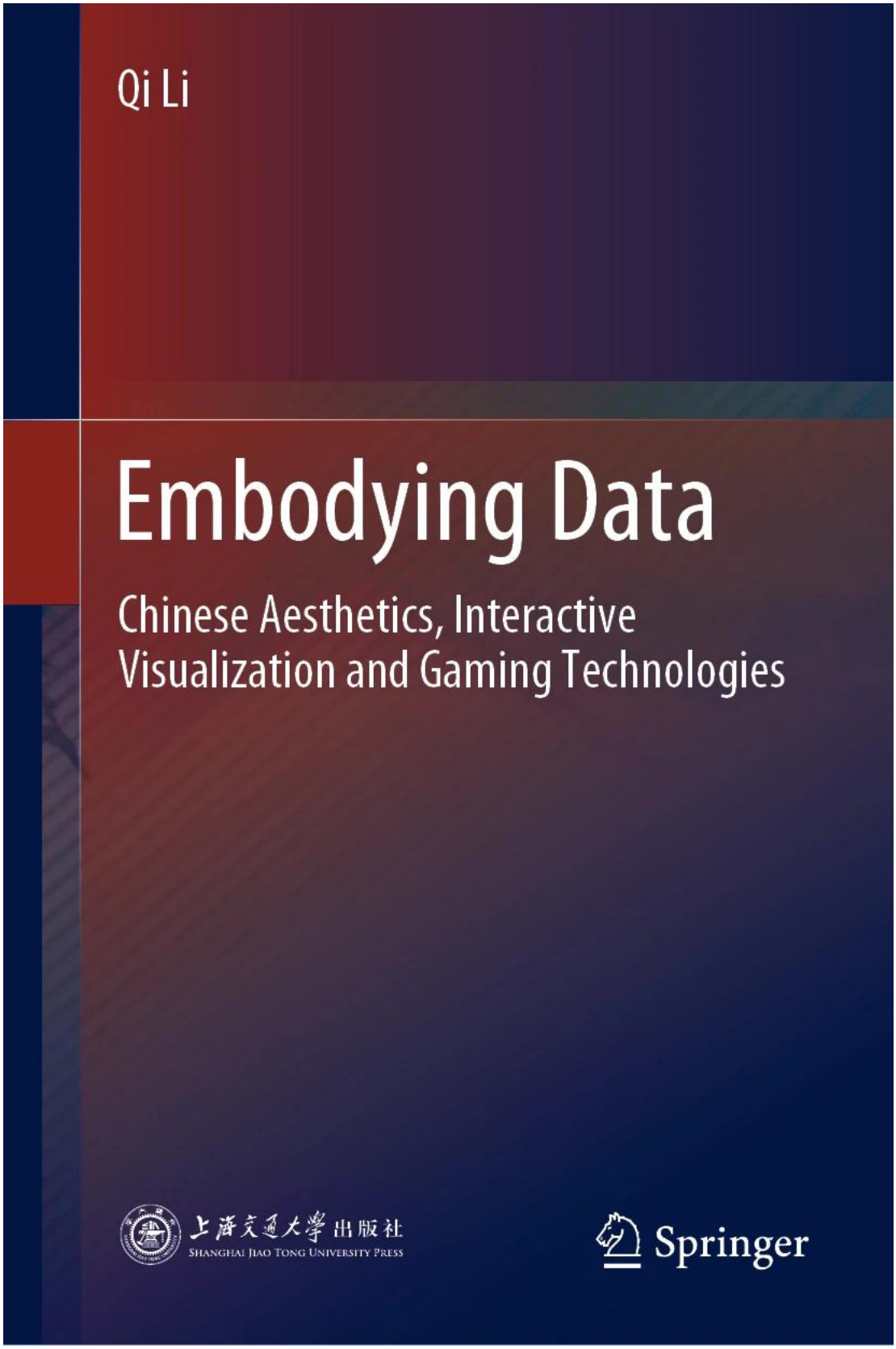
ISO 来源出版物缩写: Digit. Scholarsh. Humanit.

来源出版物页码计数: 14

1

Park Accessibility Analysis Based on Location Information and GIS: Take Shanghai Hongkou District As An Example

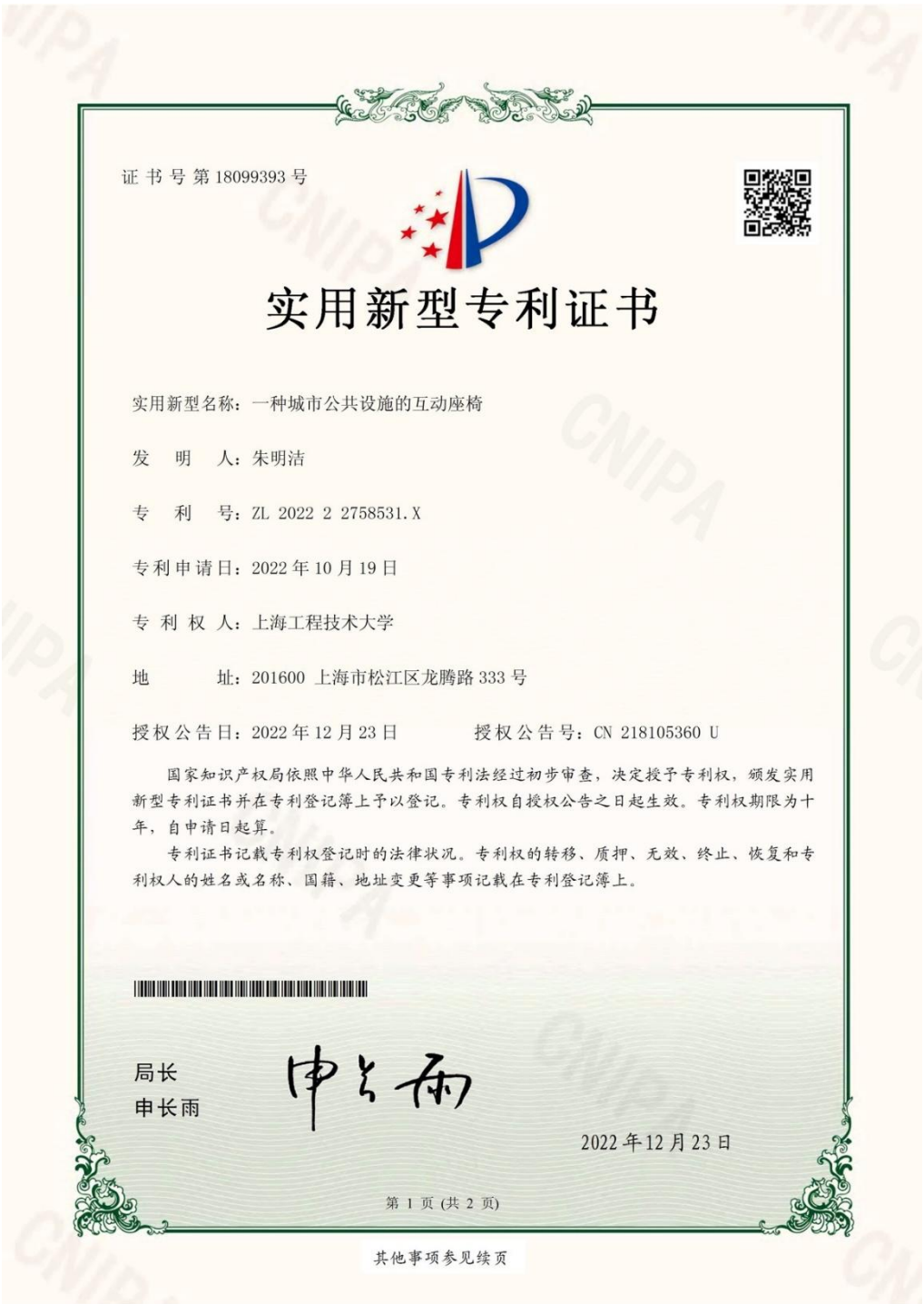
To cite this article: Ziran Zhang *et al* 2020 *IOP Conf. Ser.: Mater. Sci. Eng.* 825 012028


Qi Li
Embodying Data
Chinese Aesthetics, Interactive Visualization and Gaming Technologies
上海交通大學出版社
SHANGHAI JIAO TONG UNIVERSITY PRESS
Springer

Patents					
Serial number	**Patent name**	**Inventor of the patent**	**Type of patent**	**License number**	**Date of authorization**
1	An interactive seat for an urban public facility	Mingjie Zhu	Utility model	ZL202222758531.X	2022-10-19
2	A multifunctional children's play facility	Jianghua Xu, Zhixin Zhang	Utility model	ZL202222689133.7	2022-10-12
3	An electric vehicle interior decoration center control panel	Zhu Gao	Utility models	ZL 2021 2 2927083.7	2021-11-25
4	A ceramic packing case capable of preventing ceramics from colliding with each other	Ting Zhang	Utility model	ZLCN202021480160.8	2021-05-07
5	A bus stop for green city construction	Jianghua Xu, Ran Li, Zihan Lu	Utility model	ZL202120812318.5	2021-04-20
6	A product design data storage device	Gueping Xu	Utility model	ZL 2019 2 2290310.2	2019-12-18
7	A novel multifunctional pet feeder	Zhu Gao	Utility models	ZL201922220531.2	2019-12-09
8	The invention relates to a wall built-in automatic homing folding chair	Yi Zhuang	Utility model	ZL201922141037.7	2019-12-02
9	A structure for product fixation	Zhu Gao	Utility models	ZL 2019 2 2087081.4	2019-11-27
10	An instructional device for product design	Zhu Gao	Utility models	ZL 2019 2 2088349.6	2019-11-27
11	Electric vehicle front storage box structure	Zhu Gao	Utility models	ZL 2019 2 2120371.4	2019-11-27

12	A product design screen storage box	Zhu Gao	Utility models	ZL 2019 2 2044220.5	2019-11-22
13	Molding machine for foamed products	Ting Zhang	Utility model	ZL 2019 2 1960181.7	2019-11-13

Photocopy of Patent



证书号第18099393号

实用新型专利证书

实用新型名称：一种城市公共设施的互动座椅

发　明　人：朱明洁

专　利　号：ZL 2022 2 2758531.X

专利申请日：2022年10月19日

专利权人：上海工程技术大学

地　　址：201600 上海市松江区龙腾路333号

授权公告日：2022年12月23日　　授权公告号：CN 218105360 U

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2022年12月23日

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其他事项参见续页

证书号第18349528号

实用新型专利证书

实用新型名称：一种多功能儿童游乐设施

发　明　人：徐江华;张智信

专　利　号：ZL 2022 2 2689133.7

专利申请日：2022年10月12日

专利权人：上海工程技术大学

地　　址：201600 上海市松江区龙腾路333号

授权公告日：2023年01月24日　　授权公告号：CN 218357075 U

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其他事项参见续页

证书号第16244221号

实用新型专利证书

实用新型名称：一种电动汽车内饰中控面板

发　明　人：高曛;骆君言

专　利　号：ZL 2021 2 2927083.7

专利申请日：2021年11月25日

专 利 权 人：上海工程技术大学

地　　址：201620 上海市松江区龙腾路333号

授权公告日：2022年04月12日　　授权公告号：CN 216269037 U

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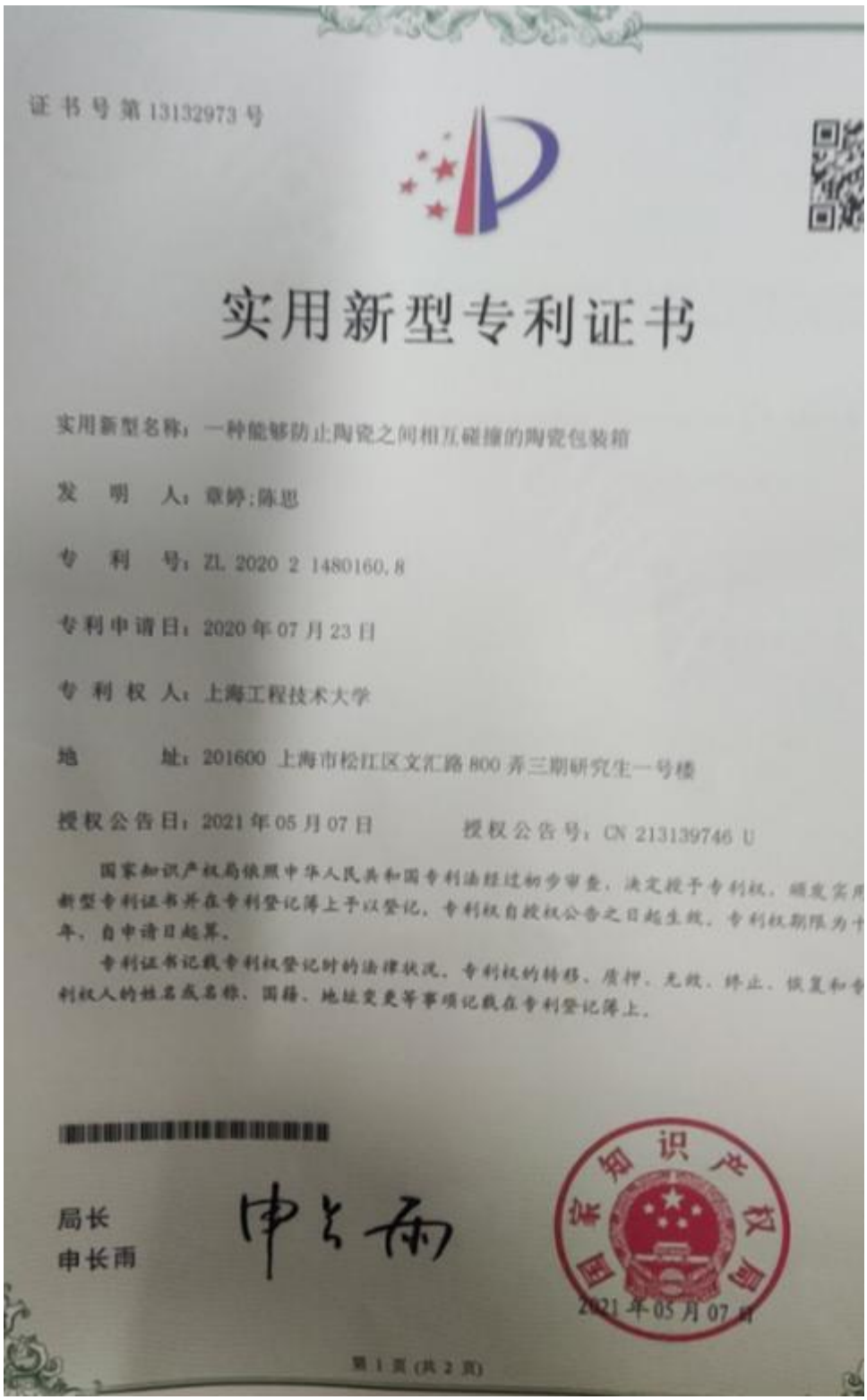

证书号第13132973号

实用新型专利证书

实用新型名称：一种能够防止陶瓷之间相互碰撞的陶瓷包装箱

发　明　人：章婷;陈思

专　利　号：ZL 2020 2 1480160.8

专利申请日：2020年07月23日

专 利 权 人：上海工程技术大学

地　　址：201600 上海市松江区文汇路800弄三期研究生一号楼

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第1页(共2页)

证书号第14907070号

实用新型专利证书

实用新型名称：一种绿色城市建设用公交站台

发　明　人：徐江华;李冉;鲁子涵

专　利　号：ZL 2021 2 0812318.5

专利申请日：2021年04月20日

专利权人：上海工程技术大学

地　　址：201600 上海市松江区龙腾路333号

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证书号第10594876号

实用新型专利证书

实用新型名称：一种产品设计数据储存设备

发　明　人：许桂苹;朱忠涛;赵元苑

专　利　号：ZL 2019 2 2290310.2

专利申请日：2019年12月18日

专 利 权 人：上海工程技术大学

地　　址：201600 上海市松江区龙腾路333号

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证书号第11219400号

实用新型专利证书

实用新型名称：一种新型多功能宠物喂食器

发　明　人：高暘;窦天晨

专　利　号：ZL 2019 2 2220531.2

专利申请日：2019年12月09日

专利权人：上海工程技术大学

地　　址：201620 上海市松江区龙腾路333号

授权公告日：2020年08月11日　　授权公告号：CN 211210943 U

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证书号第10825600号

实用新型专利证书

实用新型名称：一种墙体内嵌式自动归位折叠座椅

发　明　人：庄怡;周琦

专　利　号：ZL 2019 2 2141037.7

专利申请日：2019年12月02日

专利权人：上海工程技术大学

地　　址：201620 上海市松江区龙腾路333号

授权公告日：2020年06月23日　　授权公告号：CN 210810064 U

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2020年06月23日

第 1 页 (共 2 页)

其他事项参见续页

证书号第10902648号

1/2

实用新型专利证书

实用新型名称：一种用于产品固定的结构

发　明　人：高鹞;杨青

专　利　号：ZL 2019 2 2087081.4

专利申请日：2019年11月27日

专 利 权 人：上海工程技术大学

地　　址：201600 上海市松江区龙腾路333号

授权公告日：2020年07月03日　　授权公告号：CN 210901774 U

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局长
申长雨

国家知识产权局
2020年07月03日

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其他事项参见续页

证书号第10902648号

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申请日时本专利记载的申请人、发明人信息如下：

申请人：
上海工程技术大学

发明人：
高鹞;杨青

证书号第10784015号

实用新型专利证书

实用新型名称：一种产品设计用教学装置

发　明　人：高曛;史朴羽

专　利　号：ZL 2019 2 2088349.6

专利申请日：2019年11月27日

专 利 权 人：上海工程技术大学

地　　址：201600 上海市松江区龙腾路333号

授权公告日：2020年06月19日　　授权公告号：CN 210804821 U

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局长
申长雨

2020年06月19日

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其他事项参见续页

证书号第10896369号

实用新型专利证书

实用新型名称：电动汽车前储存箱结构

发　明　人：高暘;周志伟

专　利　号：ZL 2019 2 2120371.4

专利申请日：2019年11月27日

专利权人：上海工程技术大学

地　　址：201600 上海市松江区龙腾路333号

授权公告日：2020年07月03日　　授权公告号：CN 210912220 U

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局长
申长雨

2020年07月03日

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其他事项参见续页

证书号第10730817号

实用新型专利证书

实用新型名称：一种产品设计屏幕收纳箱

发　明　人：高暘;窦天晨

专　利　号：ZL 2019 2 2044220.5

专利申请日：2019年11月22日

专 利 权 人：上海工程技术大学

地　　址：201620 上海市松江区龙腾路333号

授权公告日：2020年06月12日　　授权公告号：CN 210726949 U

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局长
申长雨

2020年06月12日

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其他事项参见续页

证书号第11204509号

实用新型专利证书

实用新型名称：发泡产品造型加工机

发　明　人：章婷;温舒荷

专　利　号：ZL 2019 2 1960181.7

专利申请日：2019年11月13日

专 利 权 人：上海工程技术大学

地　　址：201600 上海市松江区文汇路800弄3期2号楼

授权公告日：2020年08月11日　　授权公告号：CN 211221732 U

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局长
申长雨

2020年08月11日

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其他事项参见续页

Competition Awards					
Serial Number	Competition name	Project name	Participating student	Instructor	Standings
1	"Huichuang Youth" Shanghai college students cultural creative works exhibition	Product Design	Xu Weizhi	Xu Jianghua	Second Prize
2	"Huichuang Youth" Shanghai college students cultural creative works exhibition	Arts and Crafts	Wu Hanfei	Look high, Zhang Ting	First Prize
3	"Huichuang Youth" Shanghai College students cultural creative works exhibition	Arts and Crafts	Liu Qian	Zhang Ting, Xu Jianghua	Second Prize
4	NCDA National College Digital Art Design Competition	Urban water public transportation design	Lin Hung	Sweet Spring	First Prize
5	NCDA National College Digital Art Design Competition	Urban sewer silting machine truck design	Yao Yiyi	Wang Ziqiang	First Prize
6	NCDA National College Digital Art Design Competition	Ju Style -- Home life service platform	He Ming	Zhu Mingjie	Second Prize
7	"Huichuang Youth" Shanghai college students cultural creative works exhibition	Coral	Wu Hanfei	Zhang Ting	First Prize
8	Milan Design Week - Excellent works of Chinese University Design teachers and students	Mini capsule splitter design	Wang Yue	Zhu Mingjie	Second Prize
9	Milan Design Week - Excellent works by teachers and students of Design in Chinese universities	Three-way semi-car multi-functional folding table	Sheng Jinhao	Vivian Jin	The second prize
10	National College Students Industrial Design Competition	M-space Future carrier space design	Chen Haorui	Gan Chuen	First Prize

11	National College Students Industrial Design Competition	Urban water public transport bus design	Lin Hong	Sweet Spring	First Prize
12	National College Students Industrial Design Competition	Urban sewer silting machine car design	Yao Yiyi	Wang Ziqiang	First Prize
13	National College Students Industrial Design Competition	Urban emergency charging rescue vehicle concept design	Sheng Jinhao	CAI Mengya	First Prize
14	National College Students Industrial Design Competition	Flying car concept design	Fangyuan	Xu Jianghua	Second Prize
15	National College Students Industrial Design Competition	Assisted standing wheelchair	Lu Jiayu	Looking High	Second Prize
16	National College Students Industrial Design Competition	Chemical plant inspection robot design	Li Fuyu	Wang Ziqiang	Second Prize
17	National College Students Industrial Design Competition	Racing drone assembly design	Ji Wenwen	Wang Ziqiang	Second Prize
18	National College Students Industrial Design Competition	Space-saving child safety seat design	Ye Jing	CAI Mengya	Second Prize
19	National College Students Industrial Design Competition	Building intelligent distribution robot design	Hu Yanghao	Zeng Shun	Second Prize
20	National College Students Industrial Design Competition	Emotional baby stroller design	Ren Yulu	Zhan Jianguo	Second Prize
21	National College Students Industrial Design Competition	Design of water garbage collector	Ni Quan	Jin Weiwei	Second Prize
22	National College Students Industrial Design Competition	Creative design of future family cars	Huang Yuting, Song Jiawei	Xu Jianghua	Second Prize
23	National College Students Industrial Design Competition	Design of non-contact medical goods transport vehicle	Chen Zhuyun	Gan Chuen	First Prize

24	National College Students Industrial Design Competition	Mobile emergency medical vehicle design	Zhang Wenxiao	Look High	Second Prize
25	National College Students Industrial Design Competition	Intelligent milk machine design	Cao Jiahan	Zeng Shun	The second prize
26	"Top Picture Cup" Engineering graphics competition	Mountain basketball shoes	Lu Qiguang, Qian Xinlan, Lu Jiayu	Kang Hui	Second Prize
27	The 11th Future Designer · National College Digital Art Design Competition (NCDA)	Energy Concept Speedboat	Wang Ruoxuan, Liu Xinnan	Wang Ziqiang	Second Prize
28	The 11th Future Designer · National College Digital Art Design Competition (NCDA)	Police patrol robot design	Shen Yijing	Wang Ziqiang	Second Prize

Research Projects						
Serial number	**Item name**	**Approval number**	**Project source**	**Person in charge**	**Total outlay**	**Years**
1	"Industrial Design Center of Shanghai University of Engineering Science" design innovation results	2022410013V0	Shanghai Cultural and Creative Industry Promotion Leading Group Office	High Vision	5	2022
2	Study on color planning system of new city district in Shanghai	2021EWY004	Shanghai Philosophy and Social Sciences Planning Office	Zhuang Yi	6	2021
3	Research on design methodology of constructing organic order of urban public space -- A case study of Yangtze River Delta region	20YJC760137	Department of Social Sciences, Ministry of Education	Zhang Ziran	8	2020
4	Research on innovative design methods of cabin space and cabin facilities for large civil aircraft	YB2020F02	Shanghai Culture and Tourism Bureau	Xu Jianghua	5	2020
5	Research on the practice of "curriculum thinking and politics" in the teaching of "Household Articles Design"	C2021347	Shanghai Educational Science Research and Planning Office	Zhang Ting	5	2021

6	Cultivation of creative talents of urban image archives	2019wNo.005	National Endowment for the Arts	High Vision	70	2019
7	Research on iot ecological innovation industrial cluster in G60 Science and Innovation Corridor	2019wbwNo.007	Science and Technology Commission of Songjiang District	High Vision	1	2019
8	Research on time-honored packaging design art under the background of "Shanghai Culture" brand	2019wNo.076	Shanghai Art Science Planning Office	Aim High	2	2019