

核心期刊（遴选）数据库 收录期刊

ISSN 1006-4311

CN13-1085/N

Value Engineering

JIAZHI GONGCHENG

2019 1

商界文联 会刊

技术经济研究会价值工程专业委员会 会刊  
高等教育学会价值工程分会

国 期 刊 网 全文收录期刊  
学术期刊（光盘版）

学术期刊综合评价数据库来源期刊

数据—数字化期刊群入网期刊

文科技期刊数据库收录期刊

下旬刊（总第 515 期 / 第 38 卷）



Q K 1 9 0 6 8 8 8

# 价值工程

ISSN 1006-4311



03>

万方数据

# 价值工程

目 录

2019年1月下旬刊(总第515期/第38卷)

1982年创刊 2019年1月28日出版

中国商界文联会刊

中国技术经济研究会价值工程专业委员会  
中国高等教育学会价值工程分会会刊

封面刊名题字:袁宝华

■ 主管单位:

河北省科学技术协会

■ 主办单位:

河北省技术经济管理现代化研究会

■ 总 编:高志彪

总编室:师瑞

电 话:0311-87024742

■ 编辑部:马慧霞

刘英禄

电 话:0311-83020178

0311-83036626

传 真:0311-87024742

投稿信箱:vezzsbjb@163.com

网 址:www.vezzs.com

责任编辑:高生明

封面设计:王金军

版面设计:韩宇红

■ 国际标准连续出版物号:ISSN 1006-4311

国内统一连续出版物号:CN 13-1085/N

国内邮发代号:18-2

国内订阅:全国各地邮局

国内发行:河北省报刊发行局

国外发行:中国国际图书贸易总公司

印 刷:廊坊市长岭印刷厂

■ 编辑出版单位:价值工程杂志社

社 址:石家庄市槐安西路88号卓达

物业楼A501室

邮 编:050091

国内定价:30.00元人民币

海外定价:30.00美元

## \* 价值管理 \*

- 天津港科技综合管理与服务一体化平台应用研究 ..... 刘炳春 等(1)  
校园快递“最后一百米”有偿代取模式可行性分析 ..... 张树叶 等(6)  
基于WBS-RBS及FCE法对B型产品开发项目的风险评估 ..... 赵谦 等(9)  
基于扎根理论的网购服务补救悖论成立机制研究 ..... 赵斌 等(12)  
数字经济时代的企业运营创新变革 ..... 林波(15)  
基于网络游记的新疆旅游流网络特征研究 ..... 居玛·吐尼亚孜 等(18)  
大型国企知识管理的规模化敏捷开发研究 ..... 张天龙 等(21)  
大规模岩土爆破安全问题及控制措施研究 ..... 郑耀勇 等(25)  
财务管理的重要性与风险控制 ..... 刘红娟(28)  
中小创新型成长企业风险因素分析与风险控制对策 ..... 陈俊霞(31)  
财务共享服务模式下施工企业实施策略研究 ..... 徐落平(34)  
基于变权和相对差异函数的地铁运营安全管理评价 ..... 尉强(37)  
基于离差最大化理论的民机型号选购方案评估模型研究 ..... 陶芳(40)  
北京市大学生互联网消费金融使用情况调查 ..... 郝家宏 等(44)  
基于实用性导向的沈阳市乡村规划体系构建研究 ..... 邹玲玲 等(47)  
人才为核心的新型科技创新服务平台建设研究 ..... 韩博 等(50)  
矿业经济可持续发展分析研究 ..... 徐辉(53)  
海上大型工程项目设备包的调试管理方法 ..... 尹琳(56)  
AI智能化家居机器人特征价格的计量分析 ..... 安昱臣 等(59)  
基于VIKOR法输电线路工程全过程机械化施工方案群决策研究 ..... 冯炳 等(63)  
企业社会责任对财务绩效影响研究 ..... 年娜娜(68)  
基于霍尔模型的雄安新区建设风险管理研究 ..... 朱海 等(71)

## \* 价值链·供应链 \*

- 政府规制下的双渠道逆向供应链的治理机制 ..... 张金松(74)  
S公司间接物料分类研究 ..... 熊立华 等(77)  
供应链金融视角下企业资本运营模式研究 ..... 孙华男 等(80)

## \* 功能载体创新 \*

- 湿陷性黄土地区公路桥梁病害形式及产生机理分析 ..... 杨凯 等(83)  
浅谈黄河主河槽水中桩基钢护筒施工 ..... 时伟(86)  
桥梁施工中大跨径连续桥梁施工技术探讨 ..... 杨琼义(90)  
地铁工程深基坑开挖围护结构及其施工安全质量的分析 ..... 周诚(93)  
关于大桥工程使用机制砂混凝土的一些建议 ..... 潘立泉 等(96)  
42.5m高相邻两冷却塔定向爆破拆除 ..... 赵楚 等(99)  
一种基于移动作业终端的计量仪表对时方法 ..... 陈建生(101)

高铁隧道穿越巨型空腔深大溶洞处治施工技术	顾伟(104)
沪通铁路蕰藻浜大桥水中墩拆除施工技术	贾琦(109)
煤制油项目高效供煤工作面煤柱围岩变形规律研究	姚伟(113)
煤矿特大装载硐室施工工艺探究	解志朝 等(116)
高墩施工技术在高速公路桥梁施工中的应用	薛鸿儒(119)

\* 价值应用 \*

智慧城市社区公共安全防控体系建设研究	丁雷 等(122)
基于单片机的智能晾衣架控制系统设计	张士伟(125)
景观退化模型:景观优先度的环境影响评价	吴瑞雪 等(128)
蓝莓酸奶的生产工艺研究	梅玉立 等(132)
基于3D打印技术的现代工业工程实验室的规划设计	侯春佳 等(136)
MAMSS-1 低空高精度航磁系统在印度尼西亚海湾区应用效果	闫伟 等(139)
BIM5D 技术在施工项目管理中应用研究	刘晓逸 等(142)
电子支付在老年人群中推广的障碍分析	李健(145)
基于SOA架构的ESB在社保行业设计与应用	解宜(148)
冬小麦、夏玉米节水关键技术研究与应用	刘天杰 等(151)
基于隔离机制的合作研发资源依赖演化路径	甘立双(154)
关于医院病房楼的人性化设计理念分析	张丽(157)
高温作业防护服材料温度分布的研究	索昊 等(160)
内蒙古农业大学三维模型构建	崔鹏艳 等(163)
基于知识资源共享无边界学习交互空间的设计与应用	李强 等(166)
不同纤维对再生骨料透水混凝土耐磨性能的影响	冉云龙 等(169)
京津冀地区空气污染情况分析	王玲芬 等(172)
膨胀土不良工程特性对滑坡的影响研究	马强强 等(175)
含热泵的热电联产型微电网的最优容量配置	戴立新 等(178)
BIM技术在EPC总承包项目设计阶段的应用研究	孙亦珊(182)

\* 工业工程 \*

M公司进气歧管装配线平衡优化研究	张晓峰 等(185)
------------------	------------

\* 理论综述 \*

清洁能源替代燃煤在密集烤房烘烤中的应用研究进展	王军伟 等(188)
基于系统价值论的智慧城市建设系统分析	丁月清 等(191)

**郑重声明**

- 1.本刊所刊载内容未经书面许可,任何部分不得以任何形式翻印、转载、复制,及存储于检索系统,提供给公众或私人使用。
- 2.来稿在15个工作日内给予回复录用与否,若未收到回复信息,请来信来电咨询稿件进展。来稿正常刊登周期为3个月内,未录用者可自行处理。请勿一稿多投,不涉及保密、署名无争议,请作者自留底稿,恕不退稿。
- 3.编辑部对来稿文章标题、内容、参考文献等保留删修权,不同意删修的稿件请在来稿中声明。
- 4.本刊已被“中国知网、万方数据数字化期刊群、中文科技期刊数据库”收录。凡向本刊投稿作者,若不同意在上述数据库收录,请在来稿注明。

**Value Engineering**  
**(VE)**  
**Fortnightly Issue**  
**Started in 1982**  
**Vol.38 1.c**  
**(Sum No.515)**  
**Published in Jan. 28, 2019**

**Inscribed:** Yuan Baohua  
**Executive Editor-in-chief:** Gao Zhibiao  
**Manager:** Hebei Association for Science and Technology  
**Sponsor:** Hebei Institute of Technology Economy and Modern Management  
**Chief Editor's Department:** Shi Rui  
**Editor:** Editorial Team of VE  
**Publisher:** Magazine Publishing House of VE  
**Address:** Room A501, Zhuoda Property House, No.88 Huai'an Road  
**Tel:** (0311) 87024742  
**E-mail:** vezzsbjb@163.com

**Printed by:** Changling Printing House, Langfang  
**Distributor:** Shijiazhuang Post Office  
**Subscriptions:** Chinese Local Post Office  
**Domestic Issue Code:** 18-2  
**Domestic Single Price:** ¥30.00  
**Overseas Single Price:** \$ 30.00  
**Open Publishing**  
**ISSN** 1006-4311  
**CN** 13-1085/N

# CONTENTS

## VALUE MANAGEMENT

- 1 Application Research of Tianjin Port Integrated Technology Management and Service Platform ..... LIU Bing-chun, et al.  
 6 Feasibility Analysis of Paid Proxy Service to Solve the "Last One Hundred Meters" Problem of Campus Express Delivery ..... ZHANG Shu-ye, et al.  
 9 Risk Assessment of B Type Product Development Project Based on WBS-RBS and FCE Method ..... ZHAO Qian, et al.  
 12 Research on the Establishment Mechanism of Service Recovery Paradox of Online Shopping Based on the Grounded Theory ..... ZHAO Bin, et al.  
 15 Innovation and Transformation of Enterprises in the Era of Digital Economy ..... LIN Bo  
 18 A Study on the Characteristics of Tourism Network in Xinjiang Based on Digital Footprint ..... Juma·Tuniyazi, et al.  
 21 Research on Scaled Agile Development of Knowledge Management in Large State-owned Enterprises ..... ZHANG Tian-long, et al.  
 25 Study on Safety Problems and Control Measures of Large Scale Blasting in Soil and Rocks ..... ZHENG Yao-yong, et al.  
 28 The Importance of Financial Management and Risk Control ..... LIU Hong-juan  
 31 Risk Factors Analysis and Risk Control Countermeasure for Small and Medium-sized Innovative Enterprises ..... CHEN Jun-xia  
 34 Research on Implementation Strategy of Financial Shared Service Model in Construction Enterprises ..... XU Luo-ping  
 37 Evaluation of Subway Operation Safety Management Based on Variable Weight and Relative Difference Function ..... YU Qiang  
 40 Civil Aircraft Purchasing Program Evaluating Model Research Based on Maximizing Deviation Theory ..... TAO Fang  
 44 Survey on Internet Consumer Finance Use of College Students in Beijing ..... XI Jia-hong, et al.  
 47 Research on the Construction of Rural Planning System in Shenyang Based on Practical Orientation ..... ZOU Ling-ling, et al.  
 50 Study on the Construction of the Technology Innovation Service Platform Centered on Talent ..... HAN Bo, et al.  
 53 Analysis and Research on Sustainable Development of Mining Economy ..... XU Hui  
 56 Methods on Commissioning Management of Huge Equipment Package for Project ..... YIN Lin  
 59 A Hedonic Price Model of AI Intelligent Household Robots and Econometric Analysis ..... AN Yu-chen, et al.  
 63 Research on Group Decision Making of Whole Process Mechanized Construction Scheme for Transmission Line Engineering  
     Based on VIKOR ..... FENG Bing, et al.  
 68 The Impact of Corporate Social responsibility on Financial Performance ..... NIAN Na-na  
 71 Research on Risk Management of Construction Based on Hall Model in Xiong'an New Area ..... ZHU Hai, et al.

## VALUE CHAIN·SUPPLY CHAIN

- 74 Governance Mechanism of Dual-Channel Reverse Supply Chain under Government Regulation ..... ZHANG Jin-song  
 77 Research on Indirect Material Classification of S Company ..... XIONG Li-hua, et al.  
 80 Research on Enterprise Capital Operating Mode under Supply Chain Financial Perspective ..... SUN Hua-nan, et al.

## FUNCTION CARRIER INNOVATION

- 83 Analysis for Disease Form and Mechanism of Highway Bridge in Collapsible Loess Area ..... YANG Kai,*et al.*  
86 Discussion on the Construction of Pile Foundation Steel Casing in the Main Channel of the Yellow River ..... SHI Wei  
90 Discussion on Construction Technology of Long-span Continuous Bridge in Bridge Construction ..... YANG Qiong-yi  
93 Analysis on Excavation and Enclosure Structure of Deep Foundation Pit and Its Construction Safety Quality in Subway Engineering ..... ZHOU Cheng  
96 Some Suggestions on the Use of Machine-made Sand Concrete in the Bridge Project ..... PAN Li-quan,*et al.*  
99 Directional Blasting Demolition of 42.5m High Adjacent Two Cooling Towers ..... ZHAO Chu,*et al.*  
101 A Meter Timing Method Based on Mobile Operation Terminal ..... CHEN Jian-sheng  
104 Study on Construction Technology of High Speed Railway Tunnel Crossing Huge Karst Cave ..... GU Wei  
109 Construction Technology for Demolition of Water Piers of Wenzaobang Bridge of Hutong Railway ..... JIA Qi  
113 Study on the Deformation Law of Coal Surrounding Rock in the High Efficiency Coal Supply Working Face for Coal to Oil Project ..... YAO Wei  
116 Research on Construction Technology of Extra Large Loading Chamber in Coal Mine ..... XIE Zhi-chao,*et al.*  
119 Application of High Pier Construction Technology in Construction of Expressway Bridges ..... XUE Hong-ru

## VALUE APPLICATION

- 122 Research on the Construction of Community Public Safety Prevention and Control System in Smart City ..... DING Lei,*et al.*  
125 Design of Intelligent Laundry Rack Control System Based on Single Chip Microcomputer ..... ZHANG Shi-wei  
128 Landscape Degradation Model: Environmental Impact Assessment of Landscape Priority ..... WU Rui-xue,*et al.*  
132 Study on Production Technology of Blueberry Yoghurt ..... MEI Yu-li,*et al.*  
136 Planning and Design of Modern Industrial Engineering Laboratory Based on 3D Printing Technology ..... HOU Chun-jia,*et al.*  
139 Application Effect of the MAMSS-1 Type Minimum Altitude High Precision Aeromagnetic System in Marina District in Indonesia ..... YAN Wei,*et al.*  
142 Application Research of BIM5D Technology in Construction Project Management ..... LIU Xiao-yi,*et al.*  
145 Analysis of the Barriers to the Promotion of Electronic Payment in the Elderly ..... LI Jian  
148 Design and Application of ESB in Social Security Industry Based on SOA Framework ..... XIE Yi  
151 Research and Application of Key Technologies for Agricultural Water Saving in Winter Wheat and Summer Corn ..... LIU Tian-jie,*et al.*  
154 Evolution Path of Cooperative R&D Resources Dependence based on Isolation Mechanism ..... GAN Li-shuang  
157 Analysis on the Humanized Design Concept of Hospital Ward Building ..... ZHANG Li  
160 Study on Temperature Distribution of Protective Clothing Materials for High Temperature Operation ..... SUO Hao,*et al.*  
163 Three Dimensional Model Construction of Inner Mongolia Agricultural University ..... CUI Peng-yan,*et al.*  
166 Design and Application of Knowledge Resource Sharing Interaction Space Based on Borderless Learning ..... LI Qiang,*et al.*  
169 Impact of Different Fibers to Wear-resisting Property of Recycled Aggregate Pervious Concrete ..... RAN Yun-long,*et al.*  
172 Analysis of Air Pollution in Beijing-Tianjin-Hebei Region ..... WANG Ling-fen,*et al.*  
175 Study on the Influence of Bad Engineering Characteristics of Expansive Soil on Landslide ..... MA Qiang-qiang,*et al.*  
178 Optimal Capacity Configuration of Cogeneration Microgrid with Heat Pump ..... DAI Li-xin,*et al.*  
182 Application Research of BIM Technology in the Design Stage of EPC General Contract Project ..... SUN Yi-shan

## IE

- 185 Research on Balance Optimization of Intake Manifold Assembly Line of M Company ..... ZHANG Xiao-feng,*et al.*

## THEORETICAL REVIEW

- 188 Research Progress on the Application of Clean Energy Instead of Coal in the Bulk Curing Barn for Flue-Cured Tobacco ..... WANG Jun-wei,*et al.*  
191 System Analysis of Smart City Construction Based on System Value Theory ..... DING Yue-qing,*et al.*

# 2015第三届价值工程与项目管理国际会议

◇ 剪影 ◇



北京航空航天大学党委副书记、副校长、中国工程院院士张军



美国价值工程师协会主席  
玛丽安·刘易斯



米兰比科卡大学教授、IEEE  
系统杂志总编Vincenzo Piuri



终身价值专家、博士、台湾  
新竹交通大学教授张柏毅



北京市工程咨询公司  
副总经理王革平



西南财经大学副教授、北京价  
值工程学会副秘书长张汉鹏

