

中国核心期刊（遴选）数据库 收录期刊

ISSN 1006-4311

CN13-1085/N

Value Engineering

JIAZHI GONGCHENG

2021 4

下旬刊（总第596期 / 第40卷）

价值工程

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 会刊
中国高等教育学会价值工程分会

中国学术期刊综合评价数据库来源期刊
万方数据—数字化期刊群入网期刊
中文科技期刊数据库收录期刊

ISSN 1006-4311



9 771006 431068

万方数据

价值工程

2021年4月下旬刊(总第596期/第40卷)
1982年创刊 2021年4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 会刊
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 顾 问:管在源

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:石家庄槐安西路88号

邮 编:050091

国内定价:30.00元人民币

海外定价:30.00美元

目 录

* 价值管理 *

- 建设工程项目经济效益风险的分析与应用研究 任会杰(1)
- 公众参与下重污染型企业 CSR 履行策略研究 王谷磊(5)
- 制造业员工大数据技术采纳意愿提升策略研究 吴江秋 等(8)
- “宅经济”爆发式增长现象分析 关千浩 等(10)
- 北方县级海绵城市建设模式研究 陈琳 等(14)
- 8D 分析方法在 H 制鞋企业中的应用研究 李晓俊 等(17)
- 建筑工程施工中精细化管理研究 何俊(19)
- 浅析大跨度斜拉桥施工中的风险及对策 李金亮(21)
- 基于 Malmquist 指数模型的安徽省工业创新效率研究 张朋 等(23)
- 关于改善提升长葫水库水质的探讨 倪帮高(25)
- 煤矿采掘工作面顶板管理问题的处理对策分析 卜志鹏(27)
- 预算管理在国企改革中的应用探析 贺晓霞(29)
- 风险管理在建设工程施工安全监督管理中的应用研究 郑志华(31)
- 浅谈企业应收账款如何有效管控 匡凤川 等(33)
- 工程建筑施工过程中的项目管理要点浅析 闫子娟(35)
- 浅析既有建筑改造类酒店项目多顾问设计协调要点 杨柳(37)
- 机械加工设备的预防性维护分析 姚敬博 等(39)
- 关于加强国有企业内控管理的研究 刘德华 等(41)
- 扬州美食旅游经济的发展研究 吴艳(43)
- 疫情下攀西地区居民理财行为分析 卢文刚 等(45)
- 中东某油田设备设施风险评估与控制实践 任晓晶(47)
- 关于科研院所维修工程审计质量提升研究 王旭(49)
- 基于微信服务的教务审批精细化管理研究与实现 刘兴丽 等(51)
- “营改增”对顺丰公司的财税影响研究 曾璐 等(53)
- 老龄化对退休家庭金融资产配置的影响 李荣蓉 等(56)
- 建筑业高质量发展评价指标体系探讨 蒋俊杰 等(58)
- 房屋建筑工程质量的监督流程以及控制策略 王雪飞(60)
- S 国污水处理工程项目的指定分包商管理 常勇 等(62)
- 加强高速公路交通安全设施工程建设中的质量控制 奚永毅(64)
- 新时期国有企业管理创新特征与动力机制研究 施伟(66)
- 河北省高校大学生创业促进政策及改进措施研究
..... 郗艳丽(68)
- 浅谈工程建设招投标阶段的合同管理与费用控制
..... 何保刚(70)
- 建设工程项目投资立项审计中的问题及对策研究
..... 王金鑫 等(72)
- 电力工程配网建设的全过程管理探析 骆伟伟(74)
- 基于应纳税所得额的企业所得税纳税筹划研究 张明 等(76)
- 会计监督治理体系的研究 石雅静(78)
- 财务会计在建筑施工企业中的作用及策略分析 刘俊(80)
- 5G 时代下的中国游戏产业发展研究 郑子墨(82)

* 价值链·供应链 *

- 提升水电工程造价咨询价值链的研究 徐海波(84)

* 功能载体创新 *

- 某超限高层结构方案选型及分析 苏森林 等(86)
- 园林工程施工及植物养护技术的探究 陈华荣(88)
- 水利水电工程边坡开挖支护施工技术研究 柴俊(90)

深基坑支护技术在房屋建筑施工中的运用策略试析	杨东(92)
浅谈一次成井施工技术与施工组织方案优化	吴会明(94)
铁路隧道上跨既有铁路隧道评估	章怡(96)
对高喷搅拌水泥土桩探究	王淑文等(98)
菱形挂篮在连续梁施工中安全检算分析	唐瑜(100)
高速公路隧道穿越溶洞地区的施工处治技术研究	甘增伟等(104)
复杂地层条件下高边坡坡面防护优化设计	姜生武(106)
预应力管道摩阻、锚口摩阻和喇叭口摩阻测试技术	陈娟(109)
箱室线放射性物料运输机技术方案研究	梁汝因等(112)
皮带输送机皮带跑偏成因及解决办法	胡康(114)
智能张拉工艺在高速公路项目梁场施工中应用的优势分析	窦全辉(117)
浅埋隧道地表开裂处理及隧道施工技术管理	于龙(119)
某超限高层建筑抗震和构件性能分析	齐建林(122)
城市轨道交通地下车站深基坑降水设计施工探讨	雷纯宝(124)
浅析绿色环保视域下的路桥工程施工技术	赖庆钟(127)
陈家垄隧道岩溶处理及沉降分析	金林森(129)
自来水水质常规处理办法探索	韩争明(131)
高速公路沥青路面施工质量动态控制技术研究	王海云(133)
浅谈隧道塌方处治技术	夏鹏(135)
水库大坝帷幕灌浆施工技术分析	陈少峰等(137)
* 价值应用 *	
基于多项式贝叶斯算法与 LDA 模型的在线评论情感分析研究	任乾坤等(139)
智能航标灯远程监控终端系统的设计与实现	张永红等(143)
基于贝叶斯网络的玻璃幕墙运维安全风险因素分析	刘禹辰(145)
城市轨道交通车辆曲线通过能力数值分析	王二虎(148)
基于图像处理的铝合金腐蚀特征提取	李智等(151)
利用相机标定进行的空间定位	吴任嫡等(154)
城市住宅小区空间形态对对流换热的影响	史兵(157)
材料成型及控制工程模具制造技术分析	郜一帆(160)
建筑工程测量中的数字测绘技术应用	赵喜亮(162)
水工环勘察工作中的技术要点研究	杨媚(164)
浅议建筑给排水设计中环保节能理念的应用	许震(166)
智慧消防的物联网云平台系统设计分析	王健(168)
机械自动化技术在煤矿采掘中的应用探索	冯龙龙(170)
暖通空调制冷系统中的环保节能技术的应用研究	石磊等(172)
塔里木盆地盐碱水形成过程及淡化技术探究	杜国俭等(174)

新冠疫情传播特征及公众网络舆情引导研究	周春良(176)
BIM 技术在地铁机电工程中的应用对降低施工风险的作用	徐得意(178)
关于机电工程技术在智能电网建设中的应用浅析	徐登辉等(180)
板级电路故障诊断维修技术探讨	董桂旭(182)
新型驱鸟技术在配电网中的应用	吴王强等(184)
智能化技术在机械工程自动化中的应用	陈秋明(186)
去除水中硝酸盐氮新技术——季胺基改性生物质	于晓梅等(188)
包钢电网 RCS-931 装置两侧光纤电流差动保护的调试	初家祥等(190)
基于 BIM 的施工现场布置及优化	谢乐翔等(192)
刍议高校视频监控系统集成建设	王永斌(194)
钢纤维混凝土技术在道路桥梁施工中的应用	杨龙(196)
提高地质实验室岩矿分析测试能力的途径分析	陈刚(198)
浅谈 BIM5D 信息化平台在项目管理中的应用	樊旺青等(200)
激光对中法和百分表对中法在设备应用中的对比研究	刘召等(202)
激光雷达测量技术及其应用分析	朱睿翔(204)
浅析广播电视播出系统的应用与维护	曹锋(206)
旧城更新规划的实施管理难题与 GIS 应用对策	罗凯心(208)
冬残奥会背景下的手语语言服务研究及其推广	付继林等(210)
分子动力学研究 α -锆晶界对辐照损伤的影响	莫丹等(212)
工程测量总控系统的开发设计研究	朱克成(216)
探讨海绵城市市政道路设计方式	左文根(219)
基于 BIM 的工程进度控制及优化	王静玲等(221)
* 工业工程 *	
基于优化重心法的物流中心选址问题研究	江珊等(223)
医院采血中心服务管理优化	王宏伟等(225)
* 理论综述 *	
数字普惠金融促进农业产业融合的机制研究	李光瑜(227)
我国医养结合养老模式现存问题分析及对策研究	葛雪飞等(232)
南京经济和社会发展成就及未来展望	李麒麟等(238)
供给紧缩思路下的超大城市中心区停车管理探讨	孙璐等(244)
地方政府财政压力、土地举债规模的研究	马欣怡等(248)
面向产品研发团队“知识人”的知识协调机理研究	郑江波等(251)
刚性桩复合地基下伏孔洞顶板稳定性研究现状综述	周霜林等(256)

Value Engineering

(VE)

Fortnightly Issue

Started in 1982

Vol.40 4.c

(Sum No.596)

Published in Apr. 28, 2021

Inscribed:

Yuan Baohua

General Counsel:

Guan Zaiyuan

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:

No.88 Huai'an Road, Shijiazhuang

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 Economic Benefit Analysis and Application of Engineering Project REN Hui-jie
5 Environmental Regulation, Public Participation and CSR Behavior of Heavily Polluting Enterprises WANG Gu-lei
8 Research on the Strategy of Improving the Intention of Manufacturing Employees to Adopt Big Data Technology
..... WU Jiang-qiu, *et al.*
10 Analysis of the Explosive Growth of "Stay-at-Home Economy" GUAN Qian-hao, *et al.*
14 Research on the Construction Model of County-level Sponge Cities in Northern China CHEN Lin, *et al.*
17 Application Research of 8D Analysis Method in H Shoe Enterprise LI Xiao-jun, *et al.*
19 Research on Fine Management in Construction of Building Engineering HE Jun
21 Analysis on the Risks and Countermeasures in the Construction of Long-span Cable-stayed Bridges LI Jin-liang
23 Research on Industrial Innovation Efficiency in Anhui Province Based on Malmquist Index Model ZHANG Peng, *et al.*
25 Discussion on Improving the Water Quality of Changhu Reservoir NI Bang-gao
27 Analysis of Countermeasures for Roof Management Problems in Coal Mining Face BU Zhi-peng
29 Analysis on the Application of Budget Management in the Reform of State-owned Enterprises HE Xiao-xia
31 Research on Application of Risk Management in Construction Safety Supervision and Management of Construction
Engineering ZHENG Zhi-hua
33 How to Effectively Control the Accounts Receivable of Enterprises KUANG Feng-chuan, *et al.*
35 Elementary Analysis on the Essentials of Project Management in the Process of Engineering Building Construction
..... YAN Zi-juan
37 Analysis on the Key Points of Multi-consultant Design Coordination for Existing Building Renovation Hotel Projects
..... YANG Liu
39 Preventive Maintenance Analysis of Machining Equipment YAO Jing-bo, *et al.*
41 Thoughts on Strengthening Internal Control Management of State-owned Enterprises LIU De-hua, *et al.*
43 Research on the Development of Yangzhou Gourmet Tourism Economy WU Yan
45 Analysis of Residents' Financial Management Behavior in Panxi Area under the Epidemic LU Wen-gang, *et al.*
47 Risk Assessment and Control Practice of Equipment and Facilities in an Oil Field in the Middle East
..... REN Xiao-jing
49 Research on the Improvement of Audit Quality of Maintenance Engineering of Scientific Research Institutes
..... WANG Xu
51 Research and Implementation of the Fine Management of Educational Administration Approval Based on WeChat Service
..... LIU Xing-li, *et al.*

53	Research on the Impact of Finance and Taxation of S.F. Holding Co., Ltd. Based on the Reform of "Replacing Business Tax with Value-Added Tax"	ZENG Lu, <i>et al.</i>
56	Influence of Aging on the Allocation of Financial Assets of Retired Households	LI Rong-rong, <i>et al.</i>
58	Discussion on Evaluation Index System of High-quality Development of Construction Industry	JIANG Jun-jie, <i>et al.</i>
60	Supervision Process and Control Strategy of Housing Construction Engineering Quality	WANG Xue-fei
62	Management of Designated Subcontractors for Sewage Treatment Projects in S Country	CHANG Yong, <i>et al.</i>
64	Strengthen the Quality Control in the Construction of Highway Traffic Safety Facilities	XI Yong-yi
66	Research on the Characteristics and Motivation Mechanism of State-owned Enterprise Management Innovation in the New Period	SHI Wei
68	Research on Promotion Policies and Improvement Measures for Undergraduates' Entrepreneurship in Hebei Province	QIE Yan-li
70	Research on Contract Management and Cost Control in the Bidding Stage of Engineering Construction	HE Bao-gang
72	Research on the Problems and Countermeasures in the Audit of the Project Investment of Construction Projects	WANG Jin-xin, <i>et al.</i>
74	Analysis on the Whole Process Management of Electric Power Engineering Distribution Network Construction	LUO Wei-wei
76	Research on Corporate Income Tax Planning Based on Taxable Income	ZHANG Ming, <i>et al.</i>
78	Research on Accounting Supervision and Governance System	SHI Ya-jing
80	Role of Financial Accounting in Construction Enterprises and Strategy Analysis	LIU Jun
82	Research on the Development of China's Game Industry in the 5G Era	ZHENG Zi-mo

VALUE CHAIN•SUPPLY CHAIN

84	Research on Improving the Value Chain of Hydropower Project Cost Consultation	XU Hai-bo
----	---	-----------

FUNCTION CARRIER INNOVATION

86	Scheme Selection and Analysis of an Over-limit High-rise Building	SU Sen-lin, <i>et al.</i>
88	Research on Garden Engineering Construction and Plant Maintenance Technology	CHEN Hua-rong
90	Study on Construction Technology of Slope Excavation and Support in Water Conservancy and Hydropower Projects	CHAI Jun
92	Analysis on the Application Strategy of Deep Foundation Pit Support Technology in Building Construction	YANG Dong
94	Research on One-time Well Construction Technology and Optimization of Construction Organization Plan	WU Hui-ming
96	Analysis of Tunnel Over-crossing Existing Railway Tunnel	ZHANG Yi
98	Study on High-pressure Jet Mixing Cement-soil Pile	WANG Shu-wen, <i>et al.</i>
100	Safety Verification and Analysis on Rhombic Hanging Basket in Continuous Beam	TANG Yu
104	Research on Construction Treatment Technology of Expressway Tunnel Passing Through Karst Cave Area	GAN Zeng-wei, <i>et al.</i>
106	Optimum Design of Slope Protection for High Side Slopes under Complex Stratum Conditions	JIANG Sheng-wu
109	Testing Technology for the Friction Resistance of Prestressed Pipes, Anchor Mouth and Bell Mouth	CHEN Juan
112	Research on the Technical Scheme of the Radioactive Material Transporter for the Chamber Line	LIANG Ru-nan, <i>et al.</i>
114	Causes and Solutions of Belt Deviation of Belt Conveyor	HU Kang

117	Analysis on the Advantages of the Application of Intelligent Tension Technology in the Construction of the Beam Yard of the Expressway Project	DOU Quan-hui
119	Treatment of Surface Cracks in Shallow Tunnels and Management of Tunnel Construction Technology	YU Long
122	Seismic Resistance and Component Performance Analysis of an Over-limit High-rise Building	QI Jian-lin
124	Discussion on Precipitation Design and Construction of Deep Foundation Pit of Urban Rail Transit Underground Station	LEI Chun-bao
127	Analysis on the Construction Technology of Road and Bridge Engineering from the Perspective of Green Environmental Protection	LAI Qing-zhong
129	Analysis on the Karst Treatment and Settlement of Chenjialong Tunnel	JIN Lin-sen
131	Exploration of Conventional Treatment Methods for Tap Water Quality	HAN Zheng-ming
133	Study on Dynamic Control Technology of Highway Asphalt Pavement Construction Quality	WANG Hai-yun
135	Discussion on the Treatment Technology of Tunnel Collapse	XIA Peng
137	Analysis on Curtain Grouting Construction Technology of Reservoir Dam	CHEN Shao-feng, <i>et al.</i>

VALUE APPLICATION

139	Research on Sentiment Analysis of Online Reviews Based on Polynomial Bayesian Algorithm and LDA Model	REN Qian-kun, <i>et al.</i>
143	Design and Implementation of Remote Monitoring and Control Terminal of the Intelligent Pharos	ZHANG Yong-hong, <i>et al.</i>
145	Security Risk Analysis of Glass Curtain Wall Operation and Maintenance Based on Bayesian Network	LIU Yu-chen
148	Numerical Analysis of Curve Performance of the Urban Rail Transit Vehicle	WANG Er-hu
151	Corrosion Feature Extraction of Aluminum Alloy Based on Image Processing	LI Zhi, <i>et al.</i>
154	Spatial Positioning Using Camera Calibration	WU Ren-di, <i>et al.</i>
157	Influence of Urban Residential District Spatial Form on Convection Heat Transfer	SHI Bing
160	Analysis of Material Forming and Control Engineering Mould Manufacturing Technology	GAO Yi-fan
162	Application of Digital Surveying and Mapping Technology in Construction Engineering Survey	ZHAO Xi-liang
164	Research on Technical Points in Hydraulic Environment Investigation	YANG Mei
166	Application of Environmental Protection and Energy-saving Concept in Building Water Supply and Drainage Design	XU Xia
168	Design and Analysis of Internet of Things Cloud Platform System for Intelligent Fire Protection	WANG Jian
170	Exploration on the Application of Mechanical Automation Technology in Coal Mine Excavation	FENG Long-long
172	Application of Environmental Protection and Energy-saving Technology in HVAC Refrigeration System	SHI Lei, <i>et al.</i>
174	Research on the Formation Process and Desalination Technology of Saline-alkali Water in Tarim Basin	DU Guo-quan, <i>et al.</i>
176	Study on Transmission Characteristics of COVID-19 and Guidance of Public Opinion	ZHOU Chun-liang
178	Effect of BIM Technology Application on Reducing Construction Risk in Subway Electromechanical Engineering	XU De-yi
180	Application of Electromechanical Engineering Technology in the Construction of Smart Grid	XU Deng-hui, <i>et al.</i>
182	Discussion on Fault Diagnosis and Maintenance Technology of Board Level Circuit	DONG Gui-xu
184	Application of New Bird Repellent Technology in Distribution Network	WU Wang-qiang, <i>et al.</i>
186	Application of Intelligent Technology in Mechanical Engineering Automation	CHEN Qiu-ming

188	New Technology for Removing Nitrate Nitrogen from Water: Quaternary Amine Modified Biomass	YU Xiao-mei, <i>et al.</i>
190	Debugging of Optical Fiber Current Differential Protection on Both Sides of RCS-931 Device in Baotou Steel Power Grid	CHU Jia-xiang, <i>et al.</i>
192	Research on Construction Site Layout Based on BIM	XIE Le-xiang, <i>et al.</i>
194	On the Integrated Construction of Video Monitoring System in Colleges and Universities	WANG Yong-bin
196	Application of Steel Fiber Reinforced Concrete Technology in Road and Bridge Construction	YANG Long
198	Analysis of Ways to Improve the Capability of Rock and Mineral Analysis and Test in Geological Laboratory	CHEN Gang
200	Application of BIM5D Information Platform in Project Management	FAN Wang-qing, <i>et al.</i>
202	Comparative Study of Laser Alignment Method and Dial Indicator Alignment Method in Equipment Application	LIU Zhao, <i>et al.</i>
204	Laser Radar Measurement Technology and Its Application Analysis	ZHU Rui-xiang
206	Analysis on the Application and Maintenance of Radio and TV Broadcasting System	CAO Feng
208	Management Problems and GIS Application Countermeasures of Old City Renewal Planning	LUO Kai-xin
210	Sign Language Services and Its Promoting in the Context of Paralympic Winter Games	FU Ji-lin, <i>et al.</i>
212	Molecular Dynamics Study on the Effect of α -Zr Grain Boundary on Irradiation Damage	MO Dan, <i>et al.</i>
216	Research on Development and Design of Engineering Survey Control System	ZHU Ke-cheng
219	Discussion on the Design Method of Municipal Roads in Sponge City	ZUO Wen-gen
221	Project Schedule Control and Optimization Based on BIM	WANG Jing-ling, <i>et al.</i>

IE

223	Research on Site Selection of Logistics Center Based on Optimal Centre-of-gravity Method	JIANG Shan, <i>et al.</i>
225	Optimization of Service Management in Hospital Blood Collection Center	WANG Hong-wei, <i>et al.</i>

THEORETICAL REVIEW

227	Research on the Mechanism of Digital Inclusive Finance to Promote the Integration of Agricultural Industry	LI Guang-yu
232	Analysis on the Existing Problems and Countermeasures of the Mode of Combining Medical Care with Pension in China	GE Xue-fei, <i>et al.</i>
238	Achievements and Future Prospects of Nanjing Economic and Social Development	LI Qi-lin, <i>et al.</i>
244	Discussion on Parking Management in Mega City Center under the Idea of Tightening Supply	SUN Lu, <i>et al.</i>
248	Research on the Financial Pressure of Local Government and the Scale of Land Debt	MA Xin-yi, <i>et al.</i>
251	Knowledge Coordination Mechanism for "Knowledge Man" in Product R&D Team	ZHENG Jiang-bo, <i>et al.</i>
256	Review of Research Status on Roof Stability of Cavity under Rigid Pile Composite Foundation	ZHOU Shuang-lin, <i>et al.</i>

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. 本刊已许可相关期刊网站以数字化方式复制、汇编、发行、信息网络传播本刊全文。本刊支付的稿酬(或稿酬与作品审稿费、与作品样刊费相抵)已包含相关期刊网站著作权使用费,所有署名作者向本刊提交文章发表之行为视为同意上述声明。如有异议,请在投稿时说明,本刊将按作者说明处理。