



ISSN 1671-1807
CN 11-4671/T

科技和产业

2021 年 第 21 卷 第 8 期 总第 237 期 (月刊) (2021 No.8 Vol. 21 Total 237)

ISSN 1671-1807

A standard linear barcode representing the journal's ISSN and volume/issue information.



中国技术经济学会
Chinese Society of Technology Economics

目 次

- 产学研协同创新效率测度及影响因素实证分析
——来自泛珠三角的区域层面数据 贺 灵,蒋晨帆,易秋平(1)
- 混合型基金绩效评估及驱动因素分析
——基于 DEA-Tobit 模型 李彦萱(8)
- 技术创新价值与政府资源支持对科技民企研发支出的影响研究 庄玉梅,王 莉(14)
- 中国科技成果转化效率分段测度及区域比较 廖 翼,范 澳,姚屹浓(20)
- 海南省旅游业产业关联与发展效率研究 武亚楠,谢诗筱(25)
- 技术转移过程中隐性知识转移的演化博弈分析 杨 君,陈 荔(33)
- 北京独角兽企业特征、问题及对策建议
——基于北京入选胡润全球独角兽榜单数据 王 健,姚常乐,王丽芳(41)
- 高管团队特征与银行绩效的关系研究
——基于银行创新的中介效应 申 涵,董奋义(47)
- 科技研发人才激励政策
——基于个人所得税视角 占梦婷,程志兵(56)
- 基于模糊综合评价的景区飞拉达项目安全分析 孔志军,郭延辉,胡东平,饶碧玉(61)
- 海南自贸港 12 个重点产业的科技支撑能力提升策略 刘锐金(66)
- 新时代中国高校科研的角色转变与创新驱动 杨 松,郭 惠,崔 鑫(71)
- 基于 Copula-GARCH 模型的原油市场和股票市场相关性研究 宋雪莲(77)
- 产教融合生态系统影响因素
——基于扎根理论的探索 林 剑,任莉娟,王世泰(85)
- 双循环新发展格局视域下区际经济高质量协调发展研究 刘雪雪,马信春(91)
- 基于 VaR-TGARCH 模型的中证 5G 通信主题指数实证分析 张 航,黄 莎,郑继明(96)
- 产业转移与区域创新耦合协调度分析
——以广州都市圈为例 何尔琦(102)
- 广西绿色经济发展水平评价及时空差异研究 姚 瑶,周 兴,黄冬婷,郑 惠(109)
- 基于 ANP-GRA 废旧灭火器逆向物流回收模式选择 乔张斌,杨玉中,肖展鹏(115)
- 基于数量损耗的生鲜电商供应链协调研究 肖展鹏,杨玉中,乔张斌(123)
- 广东省科技人才评价政策问题分析与对策 张辉菲(130)
- 黑龙江省大气污染物时空分布特征及影响因素 伍昱飞,叶华香,臧淑英(134)
- 基于专利分析的 MiniLED & MicroLED 技术发展态势研究 程 蒙(142)
- 山西省文化产业时空演变与高质量发展 毛文贤,郭晓佳,逯承鹏(147)
- 北京花卉新零售营销模式研究 任柯燃,何忠伟(153)

基于 XGBoost 和 LSTM 模型的金融时间序列预测	黄 颖, 杨会杰(158)
基于因子分析的沿海城市港口竞争力评价	朱坚真, 杨 蕊, 崔曦文(163)
高速铁路影响下的生产性服务业集聚与区域经济增长	罗 芳, 刘泽文(170)
基于 POI 数据的城市居民生活便利度评价研究 ——以江门市中心城区为例	虞一舟(175)
河南省产业结构评价及其与经济增长的关系	钱梦瑶, 孙英隽(180)
互联网化、政策激励与持续性创新 ——基于制造业上市公司的实证研究	岳媛媛(185)
依托大企业的科技服务业发展模式研究 ——以 761 工场为例	夏文欢(192)
江苏省科技创新财政政策研究	张 洁(199)
山西省金融支持精准扶贫成效研究	柴菁敏, 柴 磊, 田东伶(203)
基于知识图谱分析的技术创新审计研究进展与展望 …… 时迎健, 林向义, 罗 杰, 杨东红(209)	
基于解释结构模型的新生代员工压力因素辨识研究	徐 霞, 唐全莉, 李 晶(216)
所得税优惠政策对高新技术企业技术创新促进作用研究 ——基于上海市信息与通信技术企业数据	
新时代政产学研的耦合机制与创新驱动 …… 崔 鑫, 郭 惠, 王 颖(230)	
基于 GPS 定位的飞机航迹矢量算法	孙 宏, 刘 欣(235)
基于 CFD 的摩托车流场分析及优化	余千英, 黄 灿, 谭礼斌, 唐 琳, 何 丹(238)
500 kV /±800 kV 交直流同走廊运行时的电磁环境分析	杨子科, 徐玮江, 肖宏峰(244)
径向井压裂激活天然裂缝模型研究	赵 腾, 张绍哲, 郁春磊, 刘庆岭, 张 超, 孙 鹏, 李振涛(250)
基于广义 Hoek-Brown 准则的多参数强度折减法在边坡稳定性分析中的应用	刘昱君, 刘明扬, 杜文杰(255)
自动化钻冲造穴卸压增透装备的设计及试验	房新亮, 武国胜, 徐云辉, 刘亚晓(262)
现代生物技术产业应用问题与对策 ——以山东省为例	黄 博, 代仁海, 何乃波, 王先磊, 李友训(266)
关于经营期届满高速公路定价机制有关问题的思考	陈 宇, 郭小壮, 蒋文静(272)
智慧能源管理系统的应用与实现	石宏图, 李桂海, 马 振, 芦 海, 赵金元, 唐海亮(276)
环首都及雄安新区周边区域地价变动及影响因素分析	郭爱请, 韩素卿, 李 哲, 孙 艺(281)
基于 Canopy-K-means 算法的半挂汽车列车行驶数据分析	李 兵, 屈亚洲, 熊 乐, 王晓亮, 赵晨光(288)
探地雷达在公路改扩建工程检测中的应用	李 军(295)
排水沥青路面长期性能观测与评价	尘福涛, 赵立东, 刘 帆, 黄士周(301)
处理道路交通事故现场的车辆防御性停放	龚鹏飞, 常正辉, 王玉良, 史秋辰(307)
降雨作用下土石混合体边坡力学参数弱化规律与稳定性分析	刘明扬, 宋顶峰, 付晓东, 田 宁, 张振平(313)
基于高光谱高分融合数据在喀斯特地貌环境下的林分分类	陈章林, 杨 刚, 杨莎莎, 黄熙贤, 樊 鑑(319)
基于 Virtual .Lab 的某电动车平顺性研究	史利芳, 杨 林, 刘进伟, 欧阳旭(328)
阿坝藏族羌族自治州文化和旅游资源特点及开发建议	张焕新(332)
层状灰岩各向异性力学特征及声发射演化试验分析	丁 恒, 刘 兵(339)

CONTENTS

- An Empirical Analysis of Industry-university-research Synergy Innovation Efficiency Measurement and Its Influencing Factors :Regional data from the Pan-Pearl River Delta HE Ling , JIANG Chen-fan , YI Qiu-ping(7)
- Performance Evaluation and Driving Factors Analysis of Hybrid Funds :Based on DEA-Tobit model LI Yan-xuan(13)
- Research on the Impact of Technological Innovation Value and Government Resource Support on R&D Expenditure of Private Technology Enterprises ZHUANG Yu-mei , WANG Li(19)
- Piecewise Calculation and Regional Comparison of Efficiency of Transformation of Scientific and Technological Achievements in China LIAO Yi , FAN Ao , YAO Yi-nong(24)
- Study on the Tourism Industrial Connection and Development Efficiency in Hainan Province WU Ya-nan , XIE Shi-xiao(32)
- Evolutionary Game Analysis of the Conversion of Tacit Knowledge in the Process of Technology Transfer YANG Jun , CHEN Li(40)
- Characteristics , Problems and Countermeasures of Unicorn Enterprises in Beijing :Based on the data of Beijing selected into Hurun global Unicorn list WANG Jian , YAO Chang-le , WANG Li-fang(46)
- Research on the Relationship between Top Management Team Characteristics and Bank Performance :Based on the mediating effect of bank innovation SHEN Han , DONG Fen-yi(55)
- Incentive Policy of Science and Technology R&D Talents :Based on the perspective of individual income tax ZHAN Meng-ting , CHENG Zhi-bing(60)
- Safety Analysis of Via Ferrata Based on the Fuzzy Comprehensive Evaluation KONG Zhi-jun , GUO Yan-hui , HU Dong-ping , RAO Bi-yu(65)
- Strategies for Improving the Scientific and Technological Supporting Capacity for 12 Key Industries in Hainan Free Trade Port LIU Rui-jin(70)
- The Role Change and Innovation Drive of University Scientific Research in China New Era YANG Song , GUO Hui , CUI Xin(76)
- Research on the Correlation between Crude Oil Market and Stock Market Based on Copula-GARCH Model SONG Xue-lian(84)
- The Affecting Factors of Ecosystem of Production and Education Integration : An exploration based on grounded theory LIN Jian , REN Li-juan , WANG Shi-tai(90)
- Research on High Quality Coordinated Development of Interregional Economy from the Perspective of Double Cycle New Development Pattern LIU Xue-xue , MA Xin-chun(95)
- The Empirical Analysis of CSI 5G Communication Index Based on VaR-TGARCH Model ZHANG Hang , HUANG Rui , ZHENG Ji-ming(101)
- Coupled Analysis of Industrial Transfer and Regional Innovation :A case study of Guangzhou metropolitan area HE Er-qing(108)
- Study on the Development Level Evaluation of Green Economy and the Spatio-temporal Difference in Guangxi YAO Yao , ZHOU Xing , HUANG Dong-ting , ZHENG Hui(114)
- The Reverse Logistics Model Selection of Waste Fire Extinguishers Based on ANP-GRA QIAO Zhang-bin , YANG Yu-zhong , XIAO Zhan-peng(122)
- Research on Supply Chain Coordination of Fresh E-commerce Considering Quantity Loss XIAO Zhan-peng , YANG Yu-zhong , QIAO Zhang-bin(129)
- Analysis and Countermeasure of the Evaluation Policy of Scientific and Technological Talents in Guangdong Province ZHANG Hui-fei(133)
- Temporal and Spatial Distribution Characteristics and Influencing Factors of Air Pollutants in Heilongjiang Province WU Yu-fei , YE Hua-xiang , ZANG Shu-ying(141)
- Research on the Development Trend of MiniLED & MicroLED Technology Based on Patent Analysis CHENG Meng(146)
- The Time and Space Evolution of Cultural Industry and the Development of High Quality Era in Shanxi Province MAO Wen-xian , GUO Xiao-jia , LU Cheng-peng(152)
- Research on Beijing Flower New Retail Marketing Model REN Ke-ran , HE Zhong-wei(157)

Financial Time Series Forecasting Based on XGBoost and LSTM Models	HUANG Ying , YANG Hui-jie(162)
Evaluation of Port Competitiveness Level of Coastal Cities Based on Factor Analysis	ZHU Jian-zhen , YANG Rui , CUI Xi-wen(169)
Agglomeration of Producer Services and Regional Economic Growth under the Influence of High-speed Railway	LUO Fang , LIU Ze-wen(174)
Research on the Evaluation of Urban Residents ' Life Convenience Based on POI Data :Taking the downtown area of Jiangmen as an example	YU Yi-zhou(179)
The Evaluation of Industrial Structure and Its Relationship with Economic Growth in Henan Province	QIAN Meng-yao , SUN Ying-juan(184)
Internetization , Policy Incentives and Durative Innovation : Empirical study based on manufacturing listed companies	YUE Yuan-yuan(191)
Research on the Development Mode of Science and Technology Service Industry Based on Large Enterprises : Taking 761 C•Space as an example	XIA Wen-huan(198)
Research on Fiscal Policy of Science and Technology Innovation in Jiangsu Province	ZHANG Jie(202)
Research on the Effectiveness of Financial Support for Targeted Poverty Alleviation in Shanxi Province	CHAI Jing-min , CHAI Lei , TIAN Dong-ling(208)
Research Review and Prospect of Technology Innovation Audit Based on Knowledge Map Analysis	SHI Ying-jian , LIN Xiang-yi , LUO Jie , YANG Dong-hong(215)
Research on the Identification of the Stress Factors of the New Generation of Employees Based on the Interpretation Structure Model	XU Xia , TANG Quan-li , LI Jing(220)
Research on the Promotion Effect of Income Tax Preferential Policy on Technological Innovation of High-tech Enterprises : Based on the data of information and communication technology enterprises in Shanghai	FENG Xue-jie , TAO Jie(229)
Coupling Mechanism and Innovation Drive of Government-industry-university-research in New Era	CUI Xin , GUO Hui , WANG Ying(234)
Aircraft Track Vector Algorithm Based on GPS Positioning	SUN Hong , LIU Xin(237)
Flow Field Analysis and Optimization of Motorcycle Based on CFD	YU Qian-ying , HUANG Can , TAN Li-bin , TANG Lin , HE Dan(243)
Electromagnetic Environment Analysis of 500 kV/±800 kV AC/DC Power System Operating in the Same Corridor	YANG Zi-ke , XU Wei-jiang , XIAO Hong-feng(249)
Research on Activation Model of Natural Fracture by Radial Wellbore Fracturing	ZHAO Teng , ZHANG Shao-zhe , TAI Chun-lei , LIU Qing-ling , ZHANG Chao , SUN Peng , LI Zhen-tao(254)
Discussion on Applications of the Multi-parameter Reduction Method for Analyzing Slope Stability Based on the Generalized Hoek-Brown Criterion	LIU Yu-jun , LIU Ming-yang , DU Wen-jie(261)
Design and Test of Automatic Drilling and Punching Hole-making Pressure Relief and Reflection Enhancement Equipment	FANG Xin-liang , WU Guo-sheng , XU Yun-hui , LIU Ya-xiao(265)
Problems and Countermeasures on the Application of Modern Biotechnology Industry : Taking Shandong Province as an example	HUANG Bo , DAI Ren-hai , HE Nai-bo , WANG Xian-lei , LI You-xun(271)
Thoughts on the Pricing Mechanism of Expressways at the End of the Operating Period	CHEN Yu , GUO Xiao-zhuang , JIANG Wen-jing(275)
Design and Implementation of Smart Energy Management System	SHI Hong-tu , LI Gui-hai , MA Zhen , LU Hai , ZHAO Jin-yuan , TANG Hai-liang(280)
Analysis of Land Price Changes and Influencing Factors around the Capital and Xiong'an New Area	GUO Ai-qing , HAN Su-qing , LI Zhe , SUN Yi(287)
Driving Data Analysis of Tractor Semi-trailer Based on Canopy-K-means Algorithm	LI Bing , QU Ya-zhou , XIONG Le , WANG Xiao-liang , ZHAO Chen-guang(294)
The Application of Ground Penetrating Radar in Inspection of Highway Reconstruction and Extension Projects	LI Jun(300)
Long Term Performance Observation and Evaluation of Porous Asphalt	CHEN Fu-tao , ZHAO Li-dong , LIU Fan , HUANG Shi-zhou(306)
Defensive Parking of Vehicles for Road Traffic Accident Scenes	GONG Peng-fei , CHANG Zheng-hui , WANG Yu-liang , SHI Qiu-chen(312)
Analysis of Weakening Law of Mechanical Parameters of Soil-rock Mixture and Slope Stability under Rainfall Conditions	LIU Ming-yang , SONG Ding-feng , FU Xiao-dong , TIAN Ning , ZHANG Zhen-ping(318)
Stand Classification Based on Hyperspectral High Resolution Fusion Data in Karst Environment	CHEN Zhang-lin , YANG Gang , YANG Sha-sha , HUANG Xi-xian , FAN Xin(327)
Ride Comfort Research on Electric Vehicle Based on Virtual .Lab	SHI Li-fang , YANG Lin , LIU Jin-wei , OUYANG Xu(331)
Characteristics of Aba Tibetan and Qiang Autonomous Prefecture's Culture and Tourism Resources and Advice on Their Development	ZHANG Huan-xin(338)
Experimental Analysis of Anisotropic Mechanical Characteristics and Acoustic Emission Evolution of Layered Limestone	DING Heng , LIU Bing(344)