

■ 《中国核心期刊（遴选）数据库》收录期刊

ISSN 1672-058X

■ 全国首届《CAJ-CD规范》执行优秀奖期刊

重慶工商大學 学报

Journal of Chongqing Technology and Business University



中国·重庆

CHONGQING CHINA

ISSN 1672-058X



5

2013

第30卷 第5期

Vol.30 No.5

自然科学版

Natural Science Edition

编委会名单

主任:郑旭煦

副主任:罗泽举

委员:(按姓氏笔划排列)

王星平 冯有胜 刘建辉

付敏 龙涛 李刚

李志 李登信 朱淑芳

阳亚雄 陈正伟 余纯丽

何希平 杨明伦 杨祖彬

张贤明 张新中 张瑞宇

郑旭煦 胥江河 洪汝渝

袁德美 黄正洪 戴宏民

第30卷

第5期

2013年5月



主编:刘启能

副主编:罗泽举

编辑部主任:代小红

责任编辑:罗泽举 田静

代小红 李翠薇

英文审校:姜怀春

目 录

数学与应用数学

卡尔曼滤波模型在危岩变形预测中的应用 伍仁杰,陈洪凯(1)

关于 Pell 方程 $Ax^2 - By^2 = \pm 1 (A, B \in \mathbb{Z}^+)$ 万飞,杜先存(5)

基于复合泊松过程的机场客流量分析 冀云,李厚朋,付馨雨(9)

重庆市人口红利与居民储蓄水平关系的研究 郭华,刁晓林(12)

基于 PCA 的聚类分析在汶川地震灾情分类中的应用 陈丽,张朝元(17)

改进模糊评价法在企业经济效益中的应用 公慧慧,郑航,刘希梅(22)

基于因子分析的福州市各区县财政支出情况评价 郑航,公慧慧,罗国旺(26)

信息科学

基于改进的 GMM 参数估计的目标检测方法 李世锋,文志强,吴岳忠(30)

三维场景相息图快速生成研究 陈慧蓉,付胜豪,王元庆(37)

基于 FPGA 与 PC/104 总线的 SPI 接口设计 汤代斌,朱卫民(43)

基于 RFID 技术的高校图书馆管理的应用研究 王声革,郭建宏(48)

一种实用的混合有源电力滤波器的设计和仿真 史彦,甘丽,豆勤勤,郑群(52)

基于三帧差分及 Canny 算子的运动目标提取 虎首颜,张元胜(57)

环境科学

超高比表面积活性炭孔分布对氢气储存性能的影响 谢红梅,艾咏梅,陈爽,赵玲英,豆爱明,李仁炳,任建敏(62)

模拟酸雨下铬污染土壤中 Cr、Zn、Cu 的释放特征 古昌红(67)

花生玉米复合保健酸奶工艺优化研究 范娟,马春,吴灿,王一棋,郑渝,常海军(72)

油水分离设备“真空洗涤”工艺实验研究 张贤明,卢浩闻(78)

离子色谱技术在环境监测中的应用探讨 鲁蕴甜(81)

其他

承台式抗滑桩受力机理及其在护岸工程中的应用 潘奇,战博,翁珍燕,何旭(86)

机械制造类毕业设计选题及任务要求探讨 杨祖彬,谭伟,朱朝宽,李平(91)

对生产性服务业行业外延的实证研究——以重庆市为例 许丹丹(95)

面向创新创业能力培养的管理实验教学价值研究 陈丽新,周莉(102)

项目制教学方法与传统教学方法的差异性——以艺术设计专业为例 张婷(106)

期刊基本参数:CN 50 - 1155/N * 1983 * m * A4 * 110 * zh * P * ¥12.00 * 1000 * 23 * 2013 - 05

本期统校:代小红

Main Contents

Application of Kalman Filter Model to the Deformation Prediction of Unstable Rock Block	WU Ren-jie, CHEN Hong-kai(4)
On Pell Equation $Ax^2 - By^2 = \pm 1 (A, B \in Z^+)$	WAN Fei, DU Xian-cun(8)
Analysis of Airport Passenger Flow Quantity Based on Compound Poisson Process	JI Yun, LI Hou-peng, FU Xin-yu(16)
Relationship between the Demographic Dividend and the Level of Inhabitant Savings in Chongqing	GUO Hua, DIAO Xiao-lin(16)
Application of Cluster Analysis Based on Principal Component Analysis to Classification of Disaster in Wenchuan Earthquake	CHEN Li, ZHANG Chao-yuan(25)
Application of Improved Fuzzy Evaluation Method to Economic Profit of Enterprises	YAO Hui-hui, ZHENG Hang, LIU Xi-mei(25)
Evaluation on Financial Expenditure of the Districts and Counties of Fuzhou Based on Factor Analysis	ZHENG Hang, YAO Hui-hui, LUO Guo-wang(29)
Target Detection Method Based on Improved GMM Parameter Estimation	LI Shi-feng, WEN Zhi-qiang, WU Yue-zhong(36)
Research on Fast Kinoform Generation for Three-dimension Scene	CHEN Hui-rong, FU Sheng-hao, WANG Yuan-qing(42)
Design of SPI Interface Based on FPGA and PC/104 Bus	TANG Dai-bin, ZHU Wei-min(47)
Study on the Administration of University Libraries Based on RFID Technology	WANG Sheng-ge, GUO Jian-hong(51)
Design and Simulation of a Kind of Practical Hybrid Active Power Filter	SHI Yan, GAN Li, DOU Qin-qin, ZHENG Qun(61)
The Moving Target Extraction Based on the Three Frame Difference and Canny Operator	PANG Shou-yan, ZHANG Yuan-sheng(61)
Influence of the Pore Size Distribution of Super-high Specific Surface Area Activated Carbon on the Hydrogen Storage Capacity	XIE Hong-mei, AI Yong-mei, CHEN Shuang, ZHAO Ling-yan, DOU Ai-ming, LI Ren-bin, REN Jian-min(66)
Descriptive Behavior of Cr, Zn, Cu in the Chromate-polluted Soil Based on Simulated Acid-Rain Pattern	GU Chang-hung(71)
Optimization of Productive Technology of Complex Functional Yoghurt with Peanut and Corn	FAN Juan, MA Chun, WU Can, WANG Yi-qi, ZHENG Yu, CHANG Hai-jun(77)
Experimental Research on Oil-water Separation Equipment of "Vacuum Cleaning"	ZHANG Xian-ming, LU Hao-wen(80)
Application of Ion Chromatography Technology to the Process of Environmental Monitoring	LU Yun-tian(101)
Stress Mechanism of Platform-type Anti-sliding Pile and Its Application to Retement Engineering	PAN Qi, ZHAN Bo, WENG Zhen-yan, HE Xu(90)
Discussion on Graduation Design Selection and Task Requirement for Students Majored in Mechanical Manufacture	YANG Zu-bin, TAN Wei, ZHU Chao-kuan, LI Ping(94)
Empirical Research on Producer Service Industry Extension ——A Case Study of Chongqing	XU Dan-dan(101)
Research on Management Experiment Teaching Value for Cultivation of the Students with Innovative Ability and Entrepreneurial Ability	CHEN Li-xin, ZHOU Li(110)
Difference between Project-based Teaching Method and Traditional Teaching Method——Taking Art Design Major as an Example	ZHANG Ting(110)