

数学的实践与认识

2010年第40卷第23期

目 次

管理科学

- 问卷设计知识管理中的范例推理 荣 威, 顾东晓, 李兴国, 黄 燕(1)
考虑供应链影响时基于粗糙集方法的企业信贷风险评估 侯福均, 陈卫华, 吴祈宗(9)
成本领先背景下双寡头企业差异化决策的博弈分析 胡 荣, 陈 斤, 袁 鹏(16)
基于超循环理论的组织循环系统及其性能评价 杨 洋, 田也壮(23)
基于 Copula 函数的组合资产条件相依性模型研究 易文德, 廖少毅(29)
油料保障人员胜任特征指标筛选与评估模型构建 万 璞(35)
基于联系函数的系统综合评价模型及其应用 潘争伟, 金菊良, 吴开亚, 黄 琴(40)
我国典型省份交通网络建设系统效用及关联分析 李 健, 贾元华, 王作功, 张 勇, 许 薇(48)
回收率依赖回收产品质量的再制造 EOQ 模型 陈丽华, 王 波(55)

工 程

- 软计算与硬计算融合的含油性属性与样本约简 宋颖钊, 郭海湘, 廖貅武, 杨 娟, 诸克军(62)
基于 PSO21 的电容式冰层厚度检测系统的设计 刘 珍, 秦建敏, 陈 哲, 李 阳, 张侃侃, 张小彦(76)

应 用

- 无限随机赌金系统下手续费收取的合理性 白云芬, 张俊显(82)
具有脉冲效应的三种群食物链系统正周期解的存在性 夏正喜, 张小芝(88)
具有函数的泛逼近性能的模糊控制器的设计 尤 飞, 杨昔阳(95)
基于 Leslie 模型的中国人口发展预测与分析 赵丽棉, 黄基廷(101)
期末考试监考安排的数学模型 徐 欣, 翟金刚, 刘晓华(107)
一类非线性投资系统的稳定性 王战平(115)
离散时间单部件可修系统瞬时可用度的渐近稳定性 王立超, 杨 懿, 邹 云, 康 锐(119)
基于结构矩阵的 DNA 序列的相似性模型 白凤兰, 佟晓梅(134)
带负顾客和强占优先权的不耐烦信元排队 徐祖润, 李敏捷, 朱翼隽, 罗海军, 潘全如(142)

研 究

- 非线性最小二乘问题收敛性的证明 陈宏彩, 张友兰(149)
两两 NQD 阵列行和的若干极限定理 鄢 寒, 吴群英, 王叶超(155)
关于几何凸函数的 Jensen 不等式的加细 王良成, 白 海(161)
具有相对迷向平均 Landsberg 曲率的流形的一个整体刚性定理 邓义华(165)
半参数回归模型小波估计的矩相合性 周建新, 胡宏昌(170)
4p 阶二面体群连通 3 度 Cayley 有向图的正规性 覃建军, 王 飞(177)
一类 3- 正则图的邻强边染色 杨随义, 王治文, 何万生, 文 飞(183)
Hilbert 空间中混合平衡问题与非扩张半群的强收敛定理 唐金芳(191)
环 $F_2 + uF_2 + u^2F_2$ 上线性码的 MacWilliams 恒等式 梁 华, 唐元生(200)
一类新图的匹配唯一性 乔友付, 詹福琴, 侯宗毅(206)
解析函数在本性奇点的一些研究 张晓英, 叶亚盛(212)
 θ -型 Calderón-Zygmund 算子多线性换子的加权估计 王婧敏(216)
线性经济发展系统解的性质研究 张红梅, 刘会茹, 蔡惠萍, 赵建华(226)
一类耦合非线性波动方程全局解的存在性 逯丽清, 李胜家(234)

教学园地

- 一个组合恒等式的推广 (II) 张国铭(239)
奇异 P-laplace 差分方程边值问题正解的存在唯一性 翁世有, 范春文(247)

MATHEMATICS IN PRACTICE AND THEORY

2010 Vol.40 No.23

Contents

Managed Science

| | |
|---|---|
| Case-Based Reasoning in Questionnaire Design Knowledge Management | RONG Wei, GU Dong-xiao, LI Xing-guo, HUANG Yan (1) |
| Rough Set Approach for Risk Assessment of Corporate Credit Considering Effect of Supply Chain | HOU Fu-jun, CHEN Wei-hua, WU Qi-zong (9) |
| Differentiation-Decision Game of Duopoly Enterprises Based on Cost-leadership | HU Rong, CHEN Qi, YUAN Peng(16) |
| Research on Organization Cycle System and Its Property Based on Hypercycle Theory | YANG Yang, TIAN Ye-zhuang(23) |
| Constructing Conditional Dependence Models of Portfolios of Assets Based-on Copula Functions | YI Wen-de, LIAO Shao-yi(29) |
| The Conformation of Rating Index and Model for Oil Assurance Personnel | WAN Xi (35) |
| The System Comprehensive Evaluation Model Based on Connection Function and Its Application | PAN Zheng-wei, JIN Ju-liang, WU Kai-ya, HUANG Qin(40) |
| Correlation Analysis of Traffic Construction Investment and Regional Economy in Typical Province of China | LI Jian, JIA Yuan-hua, WANG Zuo-gong, ZHANG Yong, XU Wei (48) |
| EOQ Model for Remanufacturing with Quality Dependant Return Rate | CHEN Li-hua, WANG BO(55) |

Engineering

| | |
|--|--|
| Attribute Value and Sample of Oil-Bearing Formation Reduction Based on Fusion of Soft Computing and Hard Computing | SONG Ying-zhao, GUO Hai-xiang, LIAO Xiu-wu, YANG Juan, ZHU Ke-jun(62) |
| The Design of Capacitive Detecting System of Ice Thickness Based on PS021 | LIU Zhen, QIN Jian-min, CHEN Zhe, LI Yang, ZHANG Kan-kan, ZHANG Xiao-yan(76) |

Applications

| | |
|---|---|
| The Fairness of Fee in the Infinity Random Selection System | BAI Yun-fen, ZHANG Jun-xian(82) |
| Existence of Positive Periodic Solutions for the Food Chain System of Three Species with Impulsive Effect | XIA Zheng-xi, ZHANG Xiao-zhi (88) |
| The Algorithms on Fuzzy Controller with Universal Approximation | YOU Fei, YANG Xi-yang(95) |
| The Forecast and Analysis of the Development of Chinese Population in View of Leslie Pattern | ZHAO Li-mian, HUANG Ji-ting(101) |
| The Mathematical Model of the Invigilation in Final Examination | XU Xin, ZHAI Jin-gang, LIU Xiao-hua (107) |
| The Stability Problem for a Class of Nonlinear Investment System | WANG Zhan-ping(115) |
| The Asymptotic Stability of the Instantaneous Availability for the One-unit Repairable System | WANG Li-chao, YANG Yi, ZOU Yun, KANG Rui (119) |
| Structure Matrix Based Similarity Model for DNA Sequences | BAI Feng-lan, TONG Xiao-mei(134) |
| Impatient Cells' Queueing with Negative Customers and Preemptive Priority | XU Zu-run, LI Min-jie, ZHU Yi-jun, LUO Hai-jun, PAN Quan-ru (142) |

Research

| | |
|---|---|
| A Proof on Convergence Properties of Nonlinear Least Squares Problem | CHEN Hong-cai, ZHANG You-lan(149) |
| On Some Limit Theorems for Sums of Pairwise NQD Random Matrix Sequences | YAN Han, WU Qun-ying, WANG Ye-chao(155) |
| The Refinements of Jensen's Inequality for Geometric Convex Function | WANG Liang-cheng, BAI Hai (161) |
| A Global Rigidity Theorem for Manifolds with Relatively Isotropic Mean Landsberg Curvature | DENG Yi-Hua (165) |
| Moment Consistency of Wavelet Estimation in Semiparametric Regression Models | ZHOU Jian-xin, HU Hong-chang(170) |
| On the Normality of Cayley Digraph of Dihedral Group of Order 4p on 3 Degrees Connectivity | QING Jian-jun, WANG Fei(177) |
| Adjacent Strong Edge Coloring of a Kind of 3-Regular Graphs | YANG Sui-yi, WANG Zhi-wen, HE Wan-sheng, WEN Fei (183) |
| Strong Convergence Theorem for a Mixed Equilibrium Problem and Fixed Point Problem for a Nonexpansive Semigroup in Hilbert Spaces | TANG Jin-fang (191) |
| MacWilliams Identities of Linear Codes Over Ring $F_2 + uF_2 + u^2F_2$ | LIANG Hua, TANG Yuan-sheng (200) |
| The Matching Uniqueness of a New Graphs | QIAO You-fu, ZHAN Fu-qin, HOU Zong-ji (206) |
| Some Researches on Analytic Functions at Essential Singularities | ZHANG Xiao-ying, YE Ya-sheng (212) |
| Weighted Estimates for Multilinear Commutators of θ -Type Calderón-Zygmund Operators | WANG Jing-min(216) |
| The Properties of the Solution of a Class of Linear Economic Evolution System | ZHANG Hong-mei, LIU Hui-ru, CAI Hui-ping, ZHAO Jian-hua (226) |
| Global Existence of a Solution for a Coupled Nonlinear Wave Equation | LU Li-qing, LI Sheng-jia (234) |
| Teaching Field | |
| Generalization of a Combinatorial Identity(II) | ZHANG Guo-ming(239) |
| Existence and Uniqueness of Solutions for Discrete Boundary Value Problems to the Singular one-Dimension P-Laplace | WEN Shi-you, FAN Chun-wen (247) |