

应用数学进展

Advances in Applied Mathematics

Ying Yong Shu Xue Jin Zhan

2024年9月13卷9期



ISSN: 2324-7991



<https://www.hanspub.org/journal/aam>

TABLE OF CONTENTS

目 录

一类带有多时滞的奇异 Markov 跳变正系统的稳定性分析
Stability Analysis for a Class of Positive Singular Markov Jump Systems with Multiple Time Delays
龙少华, 顾文鑫, 吴云龙 4093

基于改进的聚类和核密度估计的分布鲁棒均值-CVaR 投资组合优化
Robust Mean-CVaR Portfolio Optimization Based on Enhanced Clustering and Kernel Density Estimation
于疆, 李永明 4099

基于 KPCA 的不平衡数据欠抽样算法
KPCA-Based Under-Sampling Algorithm for Unbalanced Data
王晓玲, 金永超, 刘威伟, 王希胤..... 4108

最小约束违背非线性凸优化
Nonlinear Convex Optimization with Least Constraint Violation
路斯文 4119

带有指数阻尼项的三维 Navier-Stokes 方程吸引子的存在性
Existence of Attractors for the Three-Dimensional Navier-Stokes Equations with Exponential Damping
刘爱博, 刘佳 4129

一种新的积分值型 MQ 拟插值算子
A New Integral-Valued MQ Quasi-Interpolation Operator
常雪, 彭兴璇 4144

基于柯布道格拉斯函数的北京市经济增长影响因素探析
Analysis of the Influencing Factors of Economic Growth in Beijing Based on the Cobb-Douglas Function
吴廉诚, 阎虎勤 4152

MATLAB 软件融入线性代数的三个应用案例
Three Application Cases of MATLAB Integrated with Linear Algebra
樊松涛, 李兵斌, 杨威 4163

复杂网络中基于引力模型的关键节点识别方法
A Method for Identifying Key Nodes Based on Gravity Model in Complex Networks
徐清, 刘士虎 4171

基于深度多视图对比学习方法的多组学数据整合及预后预测模型构建 Integration of Multi-Omics Data and Prognostic Prediction Model Construction Based on Deep Multi-View Contrastive Learning Methods	
高新凤	4182
基于耦合模型的数字经济与乡村振兴发展研究 Research on Digital Economy and Rural Revitalization Based on Coupling Model	
万妍, 陶一凡, 王怡婷	4191
基于 PCA-XGBoost 算法的洪水预测模型研究 Research on the Flood Prediction Model Based on the PCA-XGBoost Algorithm	
蔡洽羽	4202
不可压缩矢量势磁流体力学方程组的一阶投影方法的时间收敛性 Temporal Convergence of the First-Order Projection Method for the Incompressible Vector Potential Magnetohydrodynamic System	
王镜涵	4212
基于 MMAe 的模型平均置信区间研究 Research on Model-Averaged Confidence Interval Based on MMAe	
李馨, 邹晨晨	4225
三个重要矩阵秩的不等式证明 Proofs of Three Important Matrix Inequalities	
薛桃梅	4234
一类管状富勒烯图的完美匹配数 The Number of Perfect Matching of Tubular Fullerene Graphs	
杨瑞, 苗然然	4238
一类格上 Lotka-Volterra 合作系统受迫行波解的存在性 Existence of Forced Traveling Waves for a Class of the Lattice Lotka-Volterra Cooperative System	
吴振宇	4253
基于“扬帆远航”模型的帆船路径动态调整策略研究 Research on Dynamic Adjustment Strategy of Sailing Path Based on the Model of “Sailing Far Away”	
张淇, 金淑婷, 杨长城, 高晶英	4266
Navier-Stokes 方程非阻尼极限研究 Study on the Undamped Limit of Navier-Stokes Equations	
刘爱博, 王晓燕	4275
MPCC 问题的 M 稳定性的序列最优性条件研究 The Sequential Optimality Condition for M-Stationarity for MPCC	
王子平, 宁晶, 纪宏佳	4289

我国省域碳排放的时空演变及影响机制研究 Temporal and Spatial Evolution and Influencing Mechanism of Provincial Carbon Emissions in China	
柳春燕, 周文学	4297
基于重叠组稀疏超拉普拉斯正则化的高光谱图像恢复 Hyperspectral Image Restoration Based on Overlapping Group Sparse Hyper Laplacian Regularization	
冉启刚	4307
某些曲线复形的连通性 Connectivity of Some Curve Complexes	
王浩龙, 郭启龙	4322
突出煤层瓦斯抽采顺层钻孔设计效果分析 Analysis of the Design Effect of Drilling along the Bed of Outburst Coal Seam Gas Extraction	
黄佑洪	4333
有限大八次准晶薄板刚性夹杂问题的应力分析 Stress Analysis of Plane Problems in Two-Dimensional Octagonal Quasicrystals Containing an Elliptic Rigid Inclusion	
孙丽娟, 王会苹	4342
一类 Schrödinger-Kirchhoff-Poisson 方程的正解 Positive Solutions for a Class of Schrödinger-Kirchhoff-Poisson Equation	
黄世鹏	4353
轴向载荷作用下半无限长超弹性圆柱壳轴对称运动的模型建立 The Establishment of the Second Half of Infinite Long Axial Loading for Axisymmetric Elastic Cylindrical Shell Movement Model	
赵冠充, 王大卫	4360
一类移动环境下 Fisher-KPP 方程受迫行波的存在性及其渐近行为 The Existence and Asymptotic Behavior of Forced Traveling Waves for a Class of Fisher-KPP Equation under a Shifting Habitat	
陈碧霞	4370
基于空间平移的 K-Means 初始簇心选取 K-Means Initial Cluster Center Selection Based on Spatial Translation	
朱家乐	4381
基于流行病毒传播的城市韧性评估及动态预测 Evaluation and Dynamic Forecasting of Urban Resilience Based on Epidemic Viruses Spreading	
吕航, 曹黎侠, 秦思彤, 杨淦然	4391

求解垂直互补问题的一阶和二阶微分方程法

Methods for Solving First- and Second-Order Differential Equations for Vertical Complementarity Problems

张灵宇, 张杰, 刘书宇 4402

基于 XGBoost 模型的二手房交易价格预测研究

Research on Predicting Second Hand Housing Transaction Prices Based on XGBoost Model

莫丕昕, 林耿 4417

具有阈值控制策略的害虫 - 天敌模型的动力学分析

Dynamics of a Pest-Natural Enemy Model with a Threshold Control Strategy

陈垚 4429

梯度神经网络方法求解含有绝对值形式张量特征值

Gradient Neural Network Method for Solving Tensor Eigenvalues with Absolute Value Form

蔡泽福 4442