

合 肥 工 业 大 学 学 报

(自然科学版)

2018 年 5 月

总第 301 期

第 41 卷第 5 期

[期刊基本参数] CN 34—1083/N * 1956 * m * A4 * 144 * zh * P * ¥12.00 * 1 000 * 24 * 2018—5

目 次

• 计算机与信息工程 •

基于 B/S 架构的汽车远程诊断系统	张本宏, 王 新(577)
基于稀疏联结卷积递归神经网络的 RGB-D 图像识别算法	张治安, 张旭东, 张 骏(582)
基于鸡群优化和人工蜂群优化的混合算法	史旭栋, 高岳林(589)

• 交通工程 •

基于平均速度信息的城市交通路径诱导策略	李 浩, 丁中俊, 石 琴, 姜 锐, 高自友(595)
---------------------------	------------------------------

• 机械与汽车工程 •

一种稳健的移动绳振动计算的行波反射叠加法	陈恩伟, 罗 全, 吝辉辉, 仲 凯, 陆益民(601)
基于液压胀型成型技术的后扭梁成型轻量化设计	宛银生, 陈无畏, 袁世林, 姜再友, 周 磊(607)
活塞环组摩擦力在线检测方法 & 结构参数研究	郑文龙, 赵小勇, 王 星, 余 建(612)
滚筒洗衣机烘干流道改进及离心风机降噪研究	黄海鸿, 隋 斌, 陆月星(616)

• 电气与自动化工程 •

阀门泄漏与声发射信号能量关系的实验研究与时频域分析	韩 明, 叶国阳, 徐科军(623)
基于 CS-PSO 算法的配电网无功优化	潘 静, 金 炜, 丁津津, 张 倩, 王刘芳, 李 伟(628)

• 土木与水利工程 •

箱形深基础对高层建筑抗震性能的影响分析	李英超, 钱德玲(634)
---------------------------	---------------

大跨度钢桁梁桥滑移施工中辅助结构力学分析及监控实施

..... 王利亚， 张成才， 李兆峰， 牛忠荣(640)

微喷灌管网几种水力计算方法比较与分析 徐得潜， 唐冬云(647)

某门诊楼隔震结构设计与分析..... 邹义非， 陈道政， 陆宝金(653)

基于“环形试样”测试材料力学性能的理论研究 韩 越， 盛宏玉(659)

碗扣式满堂支架整体稳定性分析 张春风， 方诗圣， 石程华， 孟再生(666)

温拌阻燃沥青混合料设计与性能评价 蒋 玮， 沙爱民， 赵 辉， 叶万里(671)

110 kV 混压窄基角钢塔重力二阶效应分析

..... 盛金马， 谢 涛， 李鸿鹏， 李 聪， 沈 李(677)

• 资源与环境工程 •

莱州湾凹陷垦利 10-1 油田火山岩识别与分布预测 廖新武， 尹楠鑫(683)

扬子东南缘北东段加里东期构造不整合特征..... 陈秀其， 周涛发， 侯明金(689)

• 生物与食品工程 •

铅通过 Wnt 信号通路损伤发育期大鼠海马 DG 区神经再生的研究

..... 邢 栋， 刘志华， 何慧明， 刘娟娟， 汪惠丽(698)

色素万寿菊不同栽培品种农艺性状和叶黄素量的比较

..... 田 丽， 冯国栋， 刘 莹， 黄胜雄， 刘永胜， 牛向丽(703)

• 管理科学与工程 •

基于词频统计的国内外关联规则研究热点分析..... 潘若愚， 林 朋， 朱克毓(708)

• 数理科学 •

求逆矩阵的 2 种新算法..... 刘东甲(714)

CONTENTS

• Computer and Information Engineering •

Remote vehicle diagnosis system based on B/S architecture ZHANG Benhong, WANG Xin(577)

RGB-D images recognition algorithm based on convolutional-recursive neural network with sparse connections
..... ZHANG Zhian, ZHANG Xudong, ZHANG Jun(582)

Hybrid algorithm based on chicken swarm optimization and artificial bee colony
..... SHI Xudong, GAO Yuelin(589)

• Traffic Engineering •

Study on global route guidance strategy for urban traffic flow based on average speed information
..... LI Hao, DING Zhongjun, SHI Qin, JIANG Rui, GAO Ziyou(595)

• Machinery and Automobile Engineering •

A robust method of travelling wave reflection superposition for solving transverse vibration of axially moving string
system CHEN Enwei, LUO Quan, LIN Huihui, ZHONG Kai, LU Yimin(601)

Lightweight design of twist beam forming based on hydraulic bulge forming technology
..... WAN Yinsheng, CHEN Wuwei, YUAN Shilin, JIANG Zaiyou, ZHOU Lei(607)

Research on method of on-line piston ring assembly friction measurement and influence of structural parameters
..... ZHENG Wenlong, ZHAO Xiaoyong, WANG Xing, YU Jian(612)

Optimization design for drying channel of rolling washing machine and study on noise reduction of centrifugal fan
..... HUANG Haihong, SUI Bin, LU Yuexing(616)

• Electrical Engineering and Automation •

Experimental investigation of relationship between valve leakage and acoustic emission signal energy and analysis
of time-frequency domain HAN Ming, YE Guoyang, XU Kejun(623)

Reactive power optimization for distribution network based on CS-PSO algorithm
..... PAN Jing, JIN Wei, DING Jinjin, ZHANG Qian, WANG Liufang, LI Wei(628)

• Civil and Hydraulic Engineering •

Analysis of the influence of box deep foundation on seismic performance of high-rise buildings
万方数据 LI Yingchao, QIAN Deling(634)

Mechanics analysis and monitoring of auxiliary structures in construction process of a long span steel truss bridge with translation method	WANG Liya, ZHANG Chengcai, LI Zhao Feng, NIU Zhongrong(640)
Comparison and analysis of hydraulic calculation methods of microirrigation pipe network	XU Deqian, TANG Dongyun(647)
Design and analysis of base isolation system for an outpatient building	ZOU Yifei, CHEN Daozheng, LU Baojin(653)
Theoretical researches on mechanical performance measurement of materials based on ring specimen	HAN Yue, SHENG Hongyu(659)
Global stability analysis of bowl-button full support	ZHANG Chunfeng, FANG Shisheng, SHI Chenghua, MENG Zaisheng(666)
Materials design and properties evaluation for flame-retardant warm-mix asphalt	JIANG Wei, SHA Aimin, ZHAO Hui, YE Wanli(671)
Analysis of gravity second-order effect of 110 kV mixed-voltage narrow base angle steel tower	SHENG Jinma, XIE Tao, LI Hongpeng, LI Cong, SHEN Li(677)
• Resources and Environmental Engineering •	
Recognition and distribution prediction of volcanic rocks in Kenli 10-1 oilfield of Laizhouwan Sag	LIAO Xinwu, YIN Nanxin(683)
Unconformity characteristics of Caledonian structure in northeast segment of southeastern margin of Yangtze Block	CHEN Xiuqi, ZHOU Taofa, HOU Mingjin(689)
• Biotechnology and Food Engineering •	
Study on the impairment of neurogenesis in hippocampal DG in developing rats through Wnt signal pathway by Pb exposure	XING Dong, LIU Zhihua, HE Huiming, LIU Juanjuan, WANG Huili(698)
Comparison of agronomic traits and xanthophyll content among different varieties of <i>Tagetes erecta</i>	TIAN Li, FENG Guodong, LIU Ying, HUANG Shengxiong, LIU Yongsheng, NIU Xiangli(703)
• Management Science and Engineering •	
Analysis of research hotspots of association rules at home and abroad based on word frequency statistics	PAN Ruoyu, LIN Peng, ZHU Keyu(708)
• Mathematics and Physics •	
Two new algorithms for computing inverse matrix	LIU Dongjia(714)