

目次

语音压缩感知及其重构算法	梁瑞宇 邹采荣 赵力 奚吉 张学武 (1)
LTE 网间切换安全机制的形式化分析	方颖翔 蒋睿 石清泉 (6)
面向传输延时的片上网络缓冲区分配算法	周芳 吴宁 张颖 葛芬 (11)
采用新型峰均比降低技术的 OFDM 功放线性化方案	王晶琦 徐樱杰 朱晓维 翟建锋 (16)
一种有效的无线传感器网络密钥管理方案	余旺科 马文平 陈和风 高胜 (20)
一种无线传感器网络分布式连续数据采集系统的同步方法	王洋 袁慎芳 董展华 吴键 (25)
基于无偏 Q 值反馈的社区划分算法	杨柳 曹玖新 刘波 时莉莉 (31)
基于小波变换的闪烁背光 LCD 响应时间估算	夏振平 李晓华 崔洲 徐凯辉 (37)
全光纤安防系统模式识别混合编程的实现	赵杰 丁吉 万遂人 孙小菡 (41)
基于特征融合的三维人脸识别	常俊彦 达飞鹏 蔡亮 (47)
基于正交矩模糊和仿射混合不变量的图像识别算法	戴修斌 张辉 舒华忠 罗立民 (52)
完备的 Zernike 矩不变量集的构造及应用	江克 陈北京 张辉 舒华忠 (58)
基于重叠信息的基因组测序短片段定位算法	卢志远 谢建明 孙啸 (63)
基于任务态和静息态功能磁共振信号的抑郁症识别	刘刚 江海腾 刘海燕 王丽 姚志剑 卢青 (67)
基于 ST 图的微循环血细胞自动跟踪与测量技术	陈远 赵志敏 刘磊 (72)
状态监测振动传感器优化布置理论及应用	王荣 贾民平 刘桂兴 (77)
昆翅在飞行中的动态形变	陆光 颜景平 张志胜 史金飞 金晓怡 (82)
基于两点式步行吸引盆计算的稳定性分析	钟林枫 罗翔 郭晨光 (89)
柑橘采摘机器人结构设计及运动学算法	卢伟 宋爱国 蔡健荣 孙海波 陈晓颖 (95)
基于虚拟样机的胶印机虚拟试验及串墨初始相位优化	李文威 陈南 殷国栋 解鹏程 (101)
基于集员滤波的移动机器人动态环境建模	周波 樊帅权 戴先中 (107)
全数字飞行仿真平台的设计与实现	徐海亮 李骏扬 费树岷 (113)
蒸汽相变促进湿法脱硫净烟气流中细颗粒物的脱除	陆斌 杨林军 辛成运 (118)
苹果片超声波预干燥传质过程试验研究	赵芳 陈振乾 施明恒 (124)
生物油/生物柴油混合燃料的热稳定性	仲兆平 姜小祥 Naoko Ellis (129)
Mn/W 催化剂上甲烷氧化偶联反应机理的 Monte Carlo 模拟	倪嵩波 黄凯 傅淑霞 (134)
固体超强酸 $\text{SO}_4^{2-}/\text{ZrO}_2$ 催化合成环己酮甘油缩酮	尚倩倩 刘群 肖国民 (140)
活性炭选择性催化还原 NO_x	汪小蕾 朴桂林 谢浩 赵晓媛 (145)
岸坡特定生态系统对河渠微型生物群落的影响	吴义锋 吕锡武 (150)
压滤式污泥过滤比阻测定方法	赵培涛 葛仕福 黄璞 陈振乾 李响 (155)
界面复合保温材料热学性能劣化作用机理	许燕波 钱春香 陈春 (160)
一种考虑位移幅值影响的黏弹性材料力学模型	郭一峰 徐赵东 (164)
碳-芳混杂纤维布加固木梁抗弯性能试验研究	淳庆 潘建伍 包兆鼎 (168)
波纹钢板体外预应力箱梁桥钢制块式转向装置力学性能	杨明 黄侨 叶见曙 张树仁 (174)
融沉变形对柔性路面应力应变影响试验研究	钟勇强 黄晓明 廖公云 路畅 何平 (181)
沥青混合料压实特性及沥青路面碾压遍数确定	李汉光 高英 余文斌 (186)
基于灰关联分析的公交智能化调度评价方法	毛霖 李文权 (190)
干线公路交通流数据有效性检验规则	朱雷雷 张韦华 聂庆慧 (194)
基于多源 ITS 数据的行程时间预测体系框架及核心技术	聂庆慧 夏井新 张韦华 (199)
船闸底枢可靠性模型及其应用	陈一梅 马丽佳 王建民 (205)
基于 GMD 的隐含最小距离风险中性概率测度提取	崔海蓉 胡小平 (210)

CONTENTS

Compressed sensing in speech and its reconstruction algorithm	Li Ruiyu, Zou Cairong, Zhao Li, Xi Ji, Zhang Xuewu (1)
Formal analysis of inter-RAT handover protocol in LTE	Fang Jiexiang, Jiang Rui, Shi Qingquan (6)
Delay-aware buffer allocation algorithm for network on chip	Zhou Fang, Wu Ning, Zhang Ying, Ge Fen (11)
OFDM power amplifier linearization with novel PAPR reduction technique	Wang Jingqi, Xu Yingjie, Zhu Xiaowei, Zhai Jianfeng (16)
Efficient key management scheme for wireless sensor networks	Yu Wangke, Ma Wenping, Chen Hefeng, Gao Sheng (20)
Synchronous method of wireless sensor network for distributed continuous data acquisition system	Wang Yang, Yuan Shenfang, Dong Chenhua, Wu Jian (25)
Community division algorithm based on feedback of unbiased Q value	Yang Liu, Cao Jiuxin, Liu Bo, Shi Lili (31)
Response time estimation of blinking backlight LCD based on wavelet transformation	Xia Zhenping, Li Xiaohua, Cui Yuan, Xu Kaihui (37)
Implementation of pattern recognition in all fiber security monitoring system using mixed programming	Zhao Jie, Ding Ji, Wan Suiren, Sun Xiaohan (41)
3D face recognition based on feature fusion	Chang Junyan, Da Feipeng, Cai Liang (47)
Image recognition algorithm based on combined blur and affine invariants of legendre moment	Dai Xiubin, Zhang Hui, Shu Huazhong, Luo Limin (52)
Construction of complete set of Zernike moment invariants and its application	Jiang Ke, Chen Beijing, Zhang Hui, Shu Huazhong (58)
Maximum use of reads overlap information for short reads mapping	Lu Zhiyuan, Xie Jianming, Sun Xiao (63)
Recognition of depression using event-related and resting-state functional magnetic resonance signals	Liu Gang, Jiang Haiteng, Liu Haiyan, Wang Li, Yao Zhijian, Lu Qing (67)
Automatic tracking and measurement of blood cells motion in microcirculation based on ST image	Chen Yuan, Zhao Zhimin, Liu Lei (72)
Theory and application of sensor placement in condition monitoring	Wang Rong, Jia Minping, Liu Guixing (77)
Dynamic deformation of insect wing in flight	Lu Guang, Yan Jingping, Zhang Zhisheng, Shi Jinfei, Jin Xiaoyi (82)
Stability analysis of attraction basin in two-point-foot walking pattern	Zhong Linfeng, Luo Xiang, Guo Chenguang (89)
Structural design and kinematics algorithm research for orange harvesting robot	Lu Wei, Song Aiguo, Cai Jianrong, Sun Haibo, Chen Xiaoying (95)
Virtual experiments and initial ink vibrating phase angle optimization of offset press based on virtual prototyping	Li Wenwei, Chen Nan, Yin Guodong, Xie Pengcheng (101)
Dynamic environment modeling of mobile robots based on set membership filter	Zhou Bo, Fan Shuaiquan, Dai Xianzhong (107)
Design and implementation of digital flight simulation platform	Xu Hailiang, Li Junyang, Fei Shumin (113)
Improving removal of fine particles from wet-process desulfurized flue gas by heterogeneous condensation	Lu Bin, Yang Linjun, Xin Chengyun (118)
Experimental study on mass transfer process in ultrasonic pre-dehydration of apple slice	Zhao Fang, Chen Zhenqian, Shi Mingheng (124)
Thermal stability of bio-oil/bio-diesel mixture	Zhong Zhaoping, Jiang Xiaoxiang, Naoko Ellis (129)
Reaction mechanism of oxidative coupling of methane over Mn/W catalyst based on Monte Carlo simulations	Ni Songbo, Huang Kai, Fu Shuxia (134)
Synthesis of cyclohexanone glycerol ketal catalyzed by solid superacid catalyst $\text{SO}_4^{2-}/\text{ZrO}_2$	Shang Qianqian, Liu Qun, Xiao Guomin (140)
Selective catalytic reduction of NO_x by activated carbon	Wang Xiaolei, Piao Guilin, Xie Hao, Zhao Xiaoyuan (145)
Ecological effects of special riverine ecosystem on microbial community construction	Wu Yifeng, Lü Xiwu (150)
Measurement of specific resistance to filtration of sludge by pressure filtration	Zhao Peitao, Ge Shifu, Huang Ying, Chen Zhenqian, Li Xiang (155)
Mechanism of interface on thermal performance deterioration of composite insulation materials	Xu Yanbo, Qian Chunxiang, Chen Chun (160)
Mechanical model on viscoelastic material with consideration of displacement amplitude	Guo Yifeng, Xu Zhaodong (164)
Experimental study on bending behavior of timber beams strengthened with CFRP/AFRP hybrid FRP sheet	Chun Qing, Pan Jianwu, Bao Zhaoding (168)
Mechanical characters of steel block deviator used in externally prestressed box girder with corrugated webs	Yang Ming, Huang Qiao, Ye Jianshu, Zhang Shuren (174)
Influence of thawing settlement deformation on stress and strain in flexible pavement	Zhong Yongqiang, Huang Xiaoming, Liao Gongyun, Lu Chang, He Ping (181)
Compaction characteristics of hot mixed asphalt and number of roller passes	Li Hanguang, Gao Ying, Yu Wenbin (186)
Evaluation method of transit intelligent dispatching based on gray relation analysis	Mao Lin, Li Wenquan (190)
Traffic data screening rules for highways	Zhu Leilei, Zhang Weihua, Nie Qinghui (194)
Framework and key technologies for travel time prediction based on multiple ITS data sources	Nie Qinghui, Xia Jingxin, Zhang Weihua (199)
Reliability model of lock bottom assembly and its application	Chen Yimei, Ma Lijia, Wang Jianmin (205)
Recovering implied minimum distance risk-neutral probability measure using GMD	Cui Hairong, Hu Xiaoping (210)