

美国《工程索引》(EI Compendex)刊源

ISSN 1671-5497

CODEN JDXGAH

吉林大学

学报

工学版

Journal of Jilin University
Engineering and Technology Edition

ISSN 1671-5497



9 771671 549099

2

2014

第44卷 第2期

Vol.44 No.2

中国·长春

Changchun, China

万方数据

吉林大学学报(工学版)

第 44 卷 第 2 期

2014 年 3 月

目 次

混合动力车辆中的加速与制动意图识别	王庆年, 王 俊, 陈慧勇, 等 (281)
汽车制动防抱死系统分离路面的控制策略	初 亮, 蔡健伟, 王彦波, 等 (287)
基于线控转向系统的路面参数估计	郑宏宇, 陈国迎, 孙琳琳, 等 (292)
基于随机算法的级联车速观测器设计	郭洪艳, 陈 虹, 高振海, 等 (296)
制动抖动传递路径试验	陈书明, 王登峰, 李 枫, 等 (305)
双模式机电复合传动系统综合控制策略	郑海亮, 项昌乐, 王伟达, 等 (311)
基于参数反求的汽车乘员肋骨有限元模型	陈吉清, 李 伟, 刘卫国, 等 (318)
基于 TRIZ 理论提高车辆转弯工况下的稳定性	于振环, 刘顺安, 张 娜 (325)
虚拟风洞下的车辆散热器模块性能改进	刘佳鑫, 秦四成, 徐振元, 等 (330)
体现悬架特性的车辆载荷状态监测技术	李世武, 姚雪萍, 孙文财, 等 (335)
车路协同环境下基于路径的信号协调优化模型	吴 伟, 马万经, 杨晓光 (343)
海洋环境下钢筋混凝土中钢筋锈蚀的概率	王甲春, 阎培渝 (352)
混合动力工程车辆自动变速技术	赵丁选, 李天宇, 康怀亮, 等 (358)
行走工程机械液压混合动力技术	闫丽娟, 孙 辉, 刘 伟, 等 (364)
履带车辆终传动与行走系统过盈接触	张耀娟, 成 凯, 周振平, 等 (369)
混合动力挖掘机势能回收系统参数优化与试验	刘昌盛, 何清华, 张大庆, 等 (379)
仿生缝翼的增升作用	葛长江, 葛美辰, 梁 平, 等 (387)
基于最小二乘算法和 SVDUKF 算法的电液伺服加载优化	杨兆军, 杨川贵, 陈 菲, 等 (392)
装配式凸轮轴多道次扩径联接工艺	寇淑清, 张 鹏, 韩广秘, 等 (398)
三维曲面件辊压成形弯曲变形的计算及数值模拟	王 蜜, 蔡中义, 李明哲, 等 (404)
基于连续介质损伤力学预测 7075 铝合金热冲压成形极限图	庄蔚敏, 曹德闯, 叶 辉 (409)
天然硅藻土负载磷掺杂 TiO ₂ 及其可见光催化性能	夏 悦, 李芳菲, 蒋引珊, 等 (415)
基于时空关系的复杂交互行为识别	王生生, 杨 锋, 刘依婷, 等 (421)
基于引力场算法的基因调控网络构建	郑 明, 刘桂霞, 周 柚, 等 (427)
基于检查点间隔优化的容错实时系统可调度性	何忠政, 门朝光, 李 香 (433)
可变惩罚因子的支持向量数据描述算法	刘 富, 侯 涛, 刘 云, 等 (440)
基于 VAM 和 E-HMM 的图像拼接盲鉴别算法	申铨京, 李 响, 吕颖达, 等 (446)
基于贝叶斯网络的路网位置匿名区域估计	蔡朝晖, 张健沛, 杨 静 (454)

基于相关向量机的在线网络流量分类方法	夏靖波, 柏 骏, 赵小欢, 等	(459)
传感器网络轻量级无证书签名算法及密钥协商机制	王 浩, 张 晓, 王 平, 等	(465)
多目标协作的自适应移动锚点选择	陶 铭, 袁华强, 俞鹤伟, 等	(471)
多中继 OFDM 系统选择性子载波中继和功率分配算法	赵晓晖, 杨伟伟, 金晓光	(478)
基于阵列协方差矩阵列向量稀疏表示的高分辨波达方向估计	陈 建, 田 野, 孙晓颖	(485)
基于部分重合信号的空间谱估计新方法	司伟建, 吴 迪, 陈 涛	(490)
基于期望最大化算法的联合符号检测和相位估计算法	王 戈, 沈智翔, 于宏毅	(497)
基于双通信半径的传感器网络 DV-Hop 定位算法	李 娟, 刘 禹, 钱志鸿, 等	(502)
多核学习矩阵化最小二乘支持向量机算法及肺结节识别	李 阳, 文敦伟, 王 珂, 等	(508)
实时解聚分析家庭能源消耗事件的基础设施仲裁传感新方法	周求湛, 胡继康, 刘萍萍, 等	(516)
基于非下采样 Bandelet 变换的多聚焦图像融合	杨 扬, 戴 明, 周箩鱼, 等	(525)
一种多小区多用户 THP 的干扰对齐方案	张金波, 袁超伟, 王秋才, 等	(531)
基于 Modified Volterra 模型的 SI 发动机空燃比非线性模型预测控制	石屹然, 田彦涛, 史红伟, 等	(538)
基于 Simulink 实现的数模混合控制系统仿真新方法	单泽彪, 石要武, 高兴泉	(548)
带有执行器故障的离散时间 T-S 模糊系统可靠控制	王 佳, 胡 侠, 解相鹏	(554)
三自由度永磁球形电机的建模和电压控制	刘敬猛, 孟艳艳, 陈伟海, 等	(560)
羊肚菌胞外多糖快速估测方法	陈 莉, 孙永海, 付天宇, 等	(567)
高压脉冲电场对淀粉和肌原纤维蛋白混合凝胶强度的影响	金声琅, 王 莹, 殷涌光	(573)
玉米热风与微波联合干燥特性	徐艳阳, 蔡森森, 吴海成	(579)

Journal of Jilin University (Engineering and Technology Edition)

Vol. 44 No. 2

Mar. 2014

Contents

- Accelerating and braking intention identification in hybrid vehicle
..... WANG Qing-nian, WANG Jun, CHEN Hui-yong, et al. (281)
- Antilock braking control algorithm on split-mu road CHU Liang, CAI Jian-wei, WANG Yan-bo, et al. (287)
- Tire-road friction coefficient estimation based on steer-by-wire system
..... ZHENG Hong-yu, CHEN Guo-ying, SUN Lin-lin, et al. (292)
- Design of cascaded vehicle velocities observer based on randomized algorithms
..... GUO Hong-yan, CHEN Hong, GAO Zhen hai, et al. (296)
- Experiment of transfer path of brake judder CHEN Shu-ming, WANG Deng-feng, JI Feng, et al. (305)
- Design and validation of control strategy for dual-mode electro-mechanical transmission
..... ZHENG Hai-liang, XIANG Chang-le, WANG Wei-da, et al. (311)
- Finite element models of vehicles occupant ribs base on the inverse method
..... CHEN Ji-qing, LI Wei, LIU Wei-guo, et al. (318)
- Stability of vehicles' cornering case based on TRIZ theory YU Zhen-huan, LIU Shun-an, ZHANG Na (325)
- Improvement and analysis of heat exchange performance of vehicle radiator module in virtual tunnel
..... LIU Jia-xin, QIN Si-cheng, XU Zhen-yuan, et al. (330)
- Monitoring technology for vehicle loading status reflected suspension vibration characters
..... LI Shi-wu, YAO Xue-ping, SUN Wen-cai, et al. (335)
- Route based signal coordination control model within vehicle infrastructure integration environment
..... WU Wei, MA Wan-jing, YANG Xiao-guang (343)
- Probabilistic analysis of rebar rust in concrete under marine environment WANG Jia-chun, YAN Pei-yu (352)
- Automatic shift technology of hybrid power engineering vehicle
..... ZHAO Ding xuan, LI Tian-yu, KANG Huai-liang, et al. (358)
- Hydraulic hybrid technology of construction walking machinery YAN Li-juan, SUN Hui, LIU Wei, et al. (364)
- Interference contact between final drive and walking system for tracked vehicle
..... ZHANG Yao-juan, CHENG Kai, ZHOU Zhen-ping, et al. (369)
- Parameter optimization and experimental on potential energy recovery system of hybrid excavator
..... LIU Chang-sheng, HE Qing-hua, ZHANG Da-qing, et al. (379)
- High-lift effect of bionic slat GE Chang-jiang, GE Mei-chen, LIANG Ping, et al. (387)
- Optimization of the electro-hydraulic servo loading based on the least squares algorithm and the SVDUKF algorithm
..... YANG Zhao-jun, YANG Chuan-gui, CHEN Fei, et al. (392)
- Connecting technology of multi-step tube expanding for assembled camshaft
..... KOU Shu-qing, ZHANG Peng, HAN Guang-mi, et al. (398)
- Calculation of bending deformation of flexible roll forming for three-dimensional surface parts and numerical simulation
..... WANG Mi, CAI Zhong-yi, LI Ming-zhe, et al. (404)
- Prediction of FLD for AA7075 under hot stamping based on continuum damage mechanics
..... ZHUANG Wei-min, CAO De-chuang, YE Hui (409)
- P-doped TiO₂ immobilized on diatomite and its photocatalytic performance under visible light
..... XIA Yue, LI Fang-fei, JIANG Yin-shan, et al. (415)
- Complex interactive activity recognition with spatial-temporal relations
..... WANG Sheng-sheng, YANG Feng, LIU Yi-ting, et al. (421)

- Reconstruction of gene regulatory network based on gravitation field algorithm
..... ZHENG Ming, LIU Gui-xia, ZHOU You, ZHOU Chun-guang(427)
- Schedulability of fault-tolerant real-time system based on checkpoint interval optimization
..... HE Zhong-zheng, MEN Chao-guang, LI Xiang(433)
- A variable trade-off parameter support vector domain description LIU Fu, HOU Tao, LIU Yun, et al. (440)
- Blind detection of image splicing based on visual attention model and extended hidden Markov model
..... SHEN Xuan-jing, LI Xiang, LYU Ying-da, et al. (446)
- Anonymous area estimation method of path data based on Bayesian network
..... CAI Zhao-hui, ZHANG Jian-pei, YANG Jing(454)
- Online network traffic classification using relevant vector machine
..... XIA Jing-bo, BAI Jun, ZHAO Xiao-huan, et al. (459)
- Lightweight certificateless signature and key agreement scheme for WSNs
..... WANG Hao, ZHANG Xiao, WANG Ping, et al. (465)
- Adaptive mobile anchor point selection with multi-objective cooperation
..... TAO Ming, YUAN Hua-qiang, YU He-wei, et al. (471)
- Selective subcarrier relaying and power allocation algorithm for multi-relay-assisted OFDM systems
..... ZHAO Xiao-hui, YANG Wei-wei, JIN Xiao-guang(478)
- High resolution direction-of-arrival estimation based on a sparse representation of array covariance matrix column vectors
..... CHEN Jian, TIAN Ye, SUN Xiao-ying(485)
- New spatial spectrum estimation method based on partly overlapped signals
..... SI Wei-jian, WU Di, CHEN Tao(490)
- Joint symbol detection and phase estimation algorithm based on expectation-maximum
..... WANG Ge, SHEN Zhi-xiang, YU Hong-yi(497)
- Improved DV-Hop localization algorithm based on two communication ranges for wireless sensor networks
..... LI Juan, LIU Yu, QIAN Zhi-hong, et al. (502)
- Multiple kernel MatLSSVM and its application in lung nodule recognition
..... LI Yang, WEN Dun-wei, WANG Ke, et al. (508)
- New method of real-time disaggregation and analysis residential resources consumption events using infrastructure-mediated sensing ZHOU Qiu-zhan, HU Ji-kang, LIU Ping-ping, et al. (516)
- Multifocus image fusion based on nonsubsampling Bandelet transform
..... YANG Yang, DAI Ming, ZHOU Luo-yu, et al. (525)
- Interference alignment scheme for multicell multiuser system through THP
..... ZHANG Jin-bo, YUAN Chao-wei, WANG Qiu-cai, et al. (531)
- Modified Volterra model based nonlinear model predict control for air-fuel ratio of SI engines
..... SHI Yi-ran, TIAN Yan-tao, SHI Hong-wei, et al. (538)
- Simulation method of digital-analog hybrid control system based on Simulink
..... SHAN Ze-biao, SHI Yao-wu, GAO Xing-quan(548)
- Reliable control for discrete-time T-S fuzzy systems with actuators faults
..... WANG Jia, HU Xia, XIE Xiang-peng(554)
- Model and control of a PM spherical actuator based on voltage model
..... LIU Jing-meng, MENG Yan-yan, CHEN Wei-hai, et al. (560)
- Method of rapid estimate of extracellular polysaccharide of *Morchella Esculenta*
..... CHEN Li, SUN Yong-hai, FU Tian-yu, et al. (567)
- Effect of high intensity pulsed electric fields pretreatment on elasticity of starch- myofibril proteins mixed gelatin
..... JIN Sheng-lang, WANG Ying, YIN Yong-guang(573)
- Combination drying characteristics of hot-air and microwave for maize
..... XU Yan-yang, CAI Sen-sen, WU Hai-cheng(579)

- ☆ 中文综合性科学技术类核心期刊
- ☆ 中国科技核心期刊
- ★ 美国《工程索引》(EI Compendex)收录期刊
- ★ 美国《化学文摘》(CA)收录期刊
- ★ 俄罗斯《文摘杂志》(AJ)收录期刊
- ★ 美国《剑桥科学文摘》(CSA)收录期刊
- ☆ 中国科学引文数据库(CSCD)统计源期刊
- ☆ 中国知网收录期刊
- ☆ 中国科技论文在线收录期刊
- ☆ 《中国学术期刊文摘》等国内十多种文摘收录期刊

吉林大学学报(工学版)

Jilin Daxue Xuebao(Gongxue Ban)

双月刊 1957年创刊

第44卷第2期(总第172期) 2014年3月

Journal of Jilin University

(Engineering and Technology Edition)

Bimonthly, Started in 1957

Vol. 44 No. 2 (Sum 172) Mar. 2014

主管单位 中华人民共和国教育部
 主办单位 吉林大学
 主 编 任露泉
 常务副主编 陈永杰
 编 辑 吉林大学学报(工学版)编辑部
 (长春市人民大街5988号130022)
 电话:0431-85095297
 传真:0431-85094074
 E-mail: xbgxb@jlu.edu.cn
 http://xuebao.jlu.edu.cn/gxb
 出 版 吉林大学出版社
 印 刷 长春市赛德印业有限公司
 国内总发行 长春市报刊发行局
 国内订购处 全国各地邮局
 国外总发行 中国国际图书贸易总公司
 (北京399信箱,100044)

Responsible Institution Ministry of Education, the
 People's Republic of China
 Sponsored by Jilin University
 Editor-in-Chief Ren Lu-quan
 Standing Associate Chief Editor Chen Yong-jie
 Edited by Editorial Board of Journal of Jilin
 University (Engineering and Technology Edition)
 (5988 Renmin Street, Changchun 130022, China)
 Tel: 86-431-85095297
 Fax: 86-431-85094074
 E-mail: xbgxb@jlu.edu.cn
 http://xuebao.jlu.edu.cn/gxb
 Published by Jilin University Press
 Printed by Changchun Saide Printing Co., Ltd.
 Distributed Abroad by China International Book
 Trading Corporation
 (P. O. Box 399, Beijing 100044, China)
 International Subscription Code BM4549

中国标准连续出版物号 ISSN 1671-5497
 CN 22-1341/T

发行代号 国内 12-46
 国际 BM4549

国内定价 26.00元/期
 156.00元/年