

目次

智能手术机器人

肌腱/绳驱动连续体机器人研究现状与展望 刘艳红, 张 宽, 霍本岩, 陈鹏冲(1)

黄河水安全与生态保护

黄河流域水资源利用水平及提升途径 左其亭, 王鹏抗, 张志卓, 吴青松(12)
基于 PNPI 与 SWAT 模型的非点源污染风险空间分布 郑家珂, 甘 容, 左其亭, 杨 峰(20)

智能信息

量化误差下具有多丢包的信息物理系统 H_{∞} 滤波 张端金, 刘孟凯, 杜 峥(28)
基于改进 YOLOv5s 的雾天场景车辆检测方法 院老虎, 常玉坤, 刘家夫(35)
基于时频图切割的宽带信号智能检测与识别 韩刚涛, 马瑞鹏, 吴 迪(42)
一种基于加权质心的 TOF 与 TDOA 联合定位算法 朱春华, 杨锦民(50)
一种面向用户反馈的智能分析与服务设计方法 汪 烨, 周思源, 翁知远, 陈骏武(56)

电气工程

一种快速变电站设备三维点云识别方法 罗 勇, 裴 静, 袁千金, 王亚菲(62)
基于功率匹配和自适应惯性的 VSG 预同步控制方法
..... 邢鹏翔, 贾璇悦, 许长清, 司瑞华, 贾 鹏, 文云峰(69)
融合多指标的 WSN 动态信任评估预测模型 滕志军, 李 梦, 谷金亮, 于沥博, 王继红(76)

机械与动力工程

基于改进斥力模型的人工势场局部路径规划 陈江义, 殷笑勇, 王婷婷, 秦东晨(83)
金属管道腐蚀在线监测信号漂移的修正方法 李 铭, 苟浩瑞, 于永洁, 周俊岑, 甘芳吉(88)
空气悬架混杂系统车身高度与可调阻尼分层控制 胡启国, 魏 晨, 陆 伟, 雷旭东, 梁 栋(94)

材料工程及其他

有机硅改性环氧 NIPU 防腐涂料的制备及其性能研究 李 华, 齐鹏飞, 杨忠花(102)
增密工艺对 C/C-Cu 复合材料组织和性能的影响
..... 汪涵迪, 张东生, 李江涛, 赵红亮, 吴振卿, 范宇恒(108)
灰铸铁制动鼓的热循环开裂分析及表面改性
..... 李 建, 黎文强, 张伟伟, 陶 磊, 陈 辰, 李福山(114)
用户画像下期刊智能出版的融合发展及系统构建 向 颀(121)

CONTENTS

[Intelligent Surgical Robots]

A Review on Status and Prospects of Tendon/Cable Driven Continuum Robot
..... LIU Yanhong, ZHANG Kuan, HUO Benyan, CHEN Pengchong (1)

[Yellow River Water Security and Ecological Protection]

Utilization Level and Improvement Approach of Water Resources in the Yellow River Basin
..... ZUO Qiting, WANG Pengkang, ZHANG Zhizhuo, WU Qingsong (12)

Spatial Distribution of Non-point Source Pollution Risk Based on PNPI and SWAT Model
..... ZHENG Jiake, GAN Rong, ZUO Qiting, YANG Feng (20)

[Intelligent Information]

H_{∞} Filtering for Cyber Physical Systems with Random Multiple Packet Loss with Quantization Error
..... ZHANG Duanjin, LIU Mengkai, DU Zheng (28)

Vehicle Detection Method Based on Improved YOLOv5s in Foggy Scene YUAN Laohu, CHANG Yukun, LIU Jiafu (35)

Intelligent Detection and Identification of Broadband Signals Based on Time-frequency Map Cutting
..... HAN Gangtao, MA Ruipeng, WU Di (42)

A Joint Positioning Algorithm of TOF and TDOA Based on Weighted Centroid ZHU Chunhua, YANG Jinmin (50)

An Intelligent Analysis and Service Design Method for User Feedback
..... WANG Ye, ZHOU Siyuan, WENG Zhiyuan, CHEN Junwu (56)

[Electrical Engineering]

A Fast 3D Point Cloud Recognition Method for Substation Equipment
..... LUO Yong, CHANG Jing, YUAN Qianjin, WANG Yafei (62)

Pre-synchronization Control Method for Virtual Synchronous Generator Based on Power Matching and Self-adaptive Inertia
..... XING Pengxiang, JIA Xuanyue, XU Changqing, SI Ruihua, JIA Peng, WEN Yunfeng (69)

A Dynamic Trust Evaluation and Prediction Model for WSN Based on Multiple Indexes
..... TENG Zhijun, LI Meng, GU Jinliang, YU Libo, WANG Jihong (76)

[Mechanical and Power Engineering]

Local Path Planning of Artificial Potential Field Based on Improved Repulsive Model
..... CHEN Jiangyi, YIN Xiaoyong, WANG Tingting, QIN Dongchen (83)

Correction Method for Online Monitoring of Signal Drift in Metal Pipe Corrosion
..... LI Ming, GOU Haorui, YU Yongjie, ZHOU Juncen, GAN Fangji (88)

Hierarchical Control of Body Height and Adjustable Damping in Air Suspension Hybrid System
..... HU Qiguo, WEI Chen, LU Wei, LEI Xudong, LIANG Dong (94)

[Material Engineering and others]

Preparation of Organosilicon Modified Epoxy Non-isocyanate Polyurethane Anticorrosion Coating and Its Performance Test
..... LI Hua, QI Pengfei, YANG Zhonghua (102)

Influence of Densification Process on Microstructure and Properties of C/C-Cu Composite
..... WANG Handi, ZHANG Dongsheng, LI Jiangtao, ZHAO Hongliang, WU Zhenqing, FAN Yuheng (108)

Thermal Cycle Cracking and Surface Modification of Gray Cast Iron Brake Drum
..... LI Jian, LI Wenqiang, ZHANG Weiwei, TAO Lei, CHEN Chen, LI Fushan (114)

Integrated Development and Platform Construction of Intelligent Publishing of Academic Journal with User Profile
..... XIANG Sa (121)