

机械工程学报

JIXIE GONGCHENG XUEBAO

2010年第46卷第23期 12月5日出版

目次

机械学

机构学及机器人

- 鳃科和鲔科仿鱼机器人自主游动机理的分析与比较陈维山 夏丹 刘军考等 (1)
- 基于条件数约束的方向可操作度赵京 谢碧云 (8)
- 非完整移动机器人的双自适应神经滑模控制王宗义 李艳东 朱玲 (16)
- 移动机器人弯曲角焊缝跟踪预测模糊控制器设计高延峰 张华 肖建华 (23)
- 2自由度大行程微定位平台结构与参数设计张彦斐 官金良 (30)
- 4-PRUR 并联机构及其位置分析的差分进化算法牟林仙 程志红 何兵 (36)
- 多边形物体带摩擦抓取的最优规划算法文双全 吴铁军 (45)

机械动力学

- 双曲柄环板式针摆行星传动降低振动与噪声的优化设计与试验何卫东 李欣 李力行等 (53)
- 冲击信号的随机共振自适应检测方法谭继勇 陈雪峰 何正嘉 (61)
- 非线性振动声调制信号耦合特征分析胡海峰 胡芑庆 秦国军 (68)
- 基于管口噪声灵敏度分析的进气系统结构改进岳贵平 张义民 (77)
- 基于图论和直推式支持矢量机的齿轮早期故障诊断李巍华 刘雯 (82)
- 零航速仿生减摇鳍水动力模型改进金鸿章 王帆 (89)

制造科学与技术

数字化设计与制造

- 表面功能结构制造研究进展汤勇 周明 韩志武等 (93)
- 高速高效加工领域科学技术发展研究邓朝晖 刘战强 张晓红 (106)
- 锻造操作机顺应性能评价与优化方法杨文玉 孟富明 (121)
- 奇异接近度的评价方法李浩 张玉茹 王党校 (128)
- 基于可靠灰色粒子群算法的盾构机行星减速器轮系的多目标优化设计张千清 龚宪生 王欢欢等 (135)
- 热弹变形对核主泵用流体静压型机械密封性能的影响彭旭东 刘伟 白少先等 (146)
- 失效恢复机制下的网络任务冗余调度优化郭凤昌 黄洪钟 许焱卫等 (154)
- 基于形状记忆合金的角膜缝合钉的设计王璐 杨洋 孙繁新等 (161)
- 基于公理设计的通用设计过程模型张立彬 史伟民 鲍官军等 (166)

制造工艺与装备

- 圆锥刀五轴侧铣加工刀具路径整体优化原理与方法朱利民 郑刚 丁汉 (174)
- 小直径金属基球头金刚石砂轮电火花修整技术陈明君 李子昂 梁迎春等 (180)
- 一种非球面超精密单点磨削与形状误差补偿技术陈逢军 尹韶辉 范玉峰等 (186)
- 废旧电路板物理拆解方法及其试验验证杨继平 潘晓勇 向东等 (192)

- 其他 (191)

JOURNAL OF MECHANICAL ENGINEERING

Vol.46 No.23 December 2010

CONTENTS

- Comparison of Swimming Mechanism of Carangiform and Thunniform Fishlike
Robot during Self-propulsionCHEN Weishan XIA Dan LIU Junkao et al (1)
- Directional Manipulability Constrained by the Condition Number
.....XIE Biyun ZHAO Jing (8)
- Dual Adaptive Neural Sliding Mode Control of Nonholonomic Mobile Robot
.....WANG Zongyi LI Yandong ZHU Ling (16)
- Design of Predictive Fuzzy Controller for Curved Fillet Welding Seam
Tracking Based on a Mobile Robot GAO Yanfeng ZHANG Hua XIAO Jianhua (23)
- Structure and Parameter Design for Two Degrees of Freedom Micro-positioning
Mechanism with Large TravelZHANG Yanfei GONG Jinliang (30)
- 4-PRUR Parallel Mechanism and Its Displacement Analysis
Based on Differential Evolution Algorithm.....CHE Linxian CHENG Zhihong HE Bing (36)
- Optimal Planning Algorithm for Polygonal Object Grasping with Frictional Contacts
.....WEN Shuangquan WU Tiejun (45)
- Optimum Design and Experiment for Reducing Vibration and Noise of Double Crank
Ring-plate-type Pin-cycloid Planetary Drive.....HE Weidong LI Xin LI Lixing et al (53)
- Impact Signal Detection Method with Adaptive Stochastic Resonance
.....TAN Jiyong CHEN Xuefeng HE Zhengjia (61)
- Coupling Analysis of Nonlinear Vibro-acoustic Modulation Signals
.....HU Haifeng HU Niaoqing QIN Guojun (68)
- Structure Betterment of Intake System Based on Sensitivity Analysis of Orifice Noise
.....YUE Guiping ZHANG Yimin (77)
- Gear Incipient Fault Diagnosis Using Graph Theory and Transductive
Support Vector Machine.....LI Weihua LIU Wen (82)
- Improving Hydrodynamic Model for Zero Speed Bionic Fin Stabilizer
.....JIN Hongzhang WANG Fan (89)
- Recent Research on Manufacturing Technologies of Functional Surface Structure
.....TANG Yong ZHOU Ming HAN Zhiwu et al (93)
- Research of the Science and Technology Development in High-speed
and Efficient Processing FieldDENG Zhaohui LIU Zhanqiang ZHANG Xiaohong (106)
- (下转封三)

(上接第II页)

- Evaluating and Optimization Method of Forging Manipulator Compliance
.....YANG Wenyu MENG Fuming (121)
- Measure to Evaluate Closeness to Singular Configurations
..... LI Hao ZHANG Yuru WANG Dangxiao (128)
- Multi-objective Optimization Design on Gear Train of Planetary Reducer in Shield
Tunneling Machine Based on Reliably Grey Particle Swarm Optimization
.....ZHANG Ganqing GONG Xiansheng WANG Huanhuan et al (135)
- Effects Analysis of Thermo-elastic Deformation on the Performance of Hydrostatic Mechanical
Seals in Reactor Coolant PumpsPENG Xudong LIU Wei BAI Shaoxian et al (146)
- Optimal Redundant Scheduling of Grid Tasks Based on Fault Recovery
.....GUO Suchang HUANG Hongzhong XU Huanwei et al (154)
- Design of a Corneal Suturing Nail Based on Shape Memory Alloy
.....WANG Lu YANG Yang SUN Fanxin et al (161)
- General Design Process Model Based on Axiomatic Design
.....ZHANG Libin SHI Weimin BAO Guanjun et al (166)
- Optimum Positioning Conical Tool for Flank Milling of Ruled Surface
.....ZHU Limin ZHENG Gang DING Han (174)
- Electrical Discharge Dressing Technique of Metal-bonded Ball-headed Diamond Wheel
.....CHEN Mingjun LI Ziang LIANG Yingchun et al (180)
- Ultra-precision Single-point Grinding Technique and Profile Error Compensation Method
for Machining Aspheric Mould.....CHEN Fengjun YIN Shaohui FAN Yufeng et al (186)
- Waste Printed Circuit Boards Disassembly Based on Physical Methods
and Its Experimental Verification YANG Jiping PAN Xiaoyong XIANG Dong et al (192)