

2013

第1期

Vol. 34 No. 1

第34卷 第1期

Journal of
Graphics

图学学报



中国图学学会会刊
中国中文核心期刊
全国科技论文统计用刊

图学学报

第34卷 第1期 (总第107期) 2013年1月

目 次

图形学与可视化

- 一种抑制IVUS图像序列中运动伪像的方法-----孙 正 (1)
偏差最小的四心圆近似椭圆作图法-----曾振柄, 陈良育, 李志斌, 陈光喜 (9)
基于构型风格的新疆民族织物图案自动生成-----赵海英, 潘志庚, 徐正光 (17)
基于细胞神经网络鲁棒性的彩色图像边缘检测-----姜庆玲 (22)

几何设计与计算

- 与或非功能树的无损简化策略-----唐益明, 刘晓平 (31)
带两个形状参数的四次Bézier曲线的扩展-----刘小琼, 杨国英 (41)
增删点后的Voronoi图生成算法-----张 娟, 杜全叶 (46)

数字化设计

- 基于中弧线-厚度函数的翼型形状解析构造法-----姜海波, 赵云鹏 (50)
基于装配顺序的飞机装配容差信息建模-----洪建胜, 李迎光, 宋文娟, 汪 磊 (55)
改进离散粒子群算法及其在飞机装配任务调度中的应用研究-----韩鹏飞, 孙占磊, 赵 昱 (60)
超音速氧气射流对电弧炉熔池作用三相流数值模拟研究-----陈绍春, 李京社, 朱 荣, 何春来 (66)
基于ObjectARX开发工程图模块的研究-----魏永乐, 晁彩霞 (71)
矿山地测CAD技术应用研究-----杨 刚, 李迎峰 (77)

交互技术与虚拟现实

- 基于智能手机的工程图学虚拟模型库的研究与实现-----邱龙辉, 楚电明, 叶 琳 (83)
高速列车运动仿真可视化建模研究-----吕希奎, 周小平, 贾晓秋 (87)
基于多关节反向运动学的清藻机运动仿真-----杨 光, 陈祝平, 肖 炜 (92)
基于虚拟PDM的跨企业工作流变更-----梁科山, 唐 力, 曹玉君, 程 晨 (96)
盾构机动态交互仿真系统的研究与实现-----冯桂珍, 池建斌, 张增强, 王 晨 (101)

图学教育

- 基于构型设计的工程制图课程中设计环节的探索-----陈锦昌, 陈 亮, 张瑞秋, 陈炽坤 (105)
CAD大赛与我国CAD教育现状分析-----邓学雄, 熊志勇, 刘 林, 熊 巍 (111)
工程制图测绘教学模式的研究与实践-----杨 莉, 郝育新, 王建华 (116)
“工程制图”课程多媒体教学方法探讨-----蓝晓民, 王盛智 (120)

应用与交流

- 产品情感研究及情感测量的关键技术-----林 丽, 阳明庆, 张 超, 刘玲玲 (122)
面向船舶航行训练的大范围地形建模-----肖剑波, 胡大斌, 赵 凯 (128)
基于特征识别的轴类零件二维工程图的自动编程-----张万里, 王金娥 (133)
基于光流法和行人面积特征的人数统计方法研究-----汤石晨, 陈锻生 (139)

CONTENTS

Graphics and Visualization

- A method for suppressing motion artifacts in IVUS image sequence-----Sun Zheng (1)
Approximating ellipse using four-arcs with the smallest error
-----Zeng Zhenbing, Chen Liangyu, Li Zhibin, Chen Guangxi (9)
Automatic generation of Xinjiang ethnic fabric patterns based on configuration style
-----Zhao Haiying, Pan Zhigeng, Xu Zhengguang (17)
A novel color edge detection based on robustness of cell neural network-----Jiang Qingling (22)

Geometric Design and Computing

- Lossless simplifying strategies of and/or/not function tree-----Tang Yiming, Liu Xiaoping (31)
Extension of quartic Bézier curve with two shape parameters-----Liu Xiaoqiong, Yang Guoying (41)
The generating algorithm of Voronoi after adding and deleting points-----Zhang Juan, Du Quanye (46)

Digitized Design

- Analytic expression method of airfoil profile shape based on a mean camber and thickness function
-----Jiang Haibo, Zhao Yunpeng (50)
Aircraft assembly tolerance information model based on assembly sequence
-----Hong Jiansheng, Li Yingguang, Song Wenjuan, Wang Lei (55)
Aircraft assembly task scheduling based on improved discrete particle swarm optimization
-----Han Pengfei, Sun Zhanlei, Zhao Gang (60)
Three-phase numerical simulation of oxygen jet impinging on molten steel bath in EAF
-----Chen Shaochun, Li Jingshe, Zhu Rong, He Chunlai (66)
Developing engineering drawing module base on ObjectARX-----Wei Yongle, Chao Caixia (71)
Application of CAD technology in mine and geology-----Yang Gang, Li Yingfeng (77)

Interactive Technology and Virtual Reality

- The library of virtual model of engineering graphics based on smart phone
-----Qiu Longhui, Chu Dianming, Ye Lin (83)
The motion simulation of high-speed train-----Lü Xikui, Zhou Xiaoping, Jia Xiaoqiu (87)
Motion simulation of clean algae machine based on multi-joint inverse kinematics
-----Yang Guang, Chen Zhuping, Xiao Wei (92)
Workflow change among enterprises based on VPDM
-----Liang Keshan, Tang Li, Cao Yujun, Cheng Chen (96)
A dynamic interactive simulation system for shield machine
-----Feng Guizhen, Chi Jianbin, Zhangzengqiang, Wang Chen (101)

Graphics Education

- Exploration and practice for design ability based on shape configuration in engineering drawing
-----Chen Jinchang, Chen Liang, Zhang Ruiqiu, Chen Chikun (105)
The CAD skills competition and the situation analysis of CAD education in China
-----Deng Xuexiong, Xiong Zhiyong, Liu Lin, Xiong Wei (111)
Practice in the form of engineering drawing and mapping-----Yang Li, Hao Yuxin, Wang Jianhua (116)
Probing into the teaching methods of engineering drawing-----Lan Xiaomin, Wang Shengzhi (120)

Application and Communication

- The product emotion and key technologies for emotional measurement
-----Lin Li, Yang Mingqing, Zhang Chao, Liu Lingling (122)
Ship navigation training oriented large scale terrain modeling---Xiao Jianbo, Hu Dabin, Zhao Kai (128)
Automatic programming of engineering drawing of shaft part based on feature recognition
-----Zhang Wanli, Wang Jine (133)
A method for people counting based on optical flow and pedestrian size
-----Tang Shichen, Chen Duansheng (139)