

2020

第 2 期

Vol. 41 No. 2

第41卷 第2期

Journal of
Graphics

图学学报



中国图学学会会刊

《中文核心期刊要目总览》（第八版）科技类核心期刊
中国科技核心期刊（中国科技论文统计源期刊）
中国科学引文数据库（CSCD）核心期刊
中国学术期刊综合评价数据库来源期刊
日本科学技术振兴机构中国文献数据库（JSTChina）收录期刊

目 次

计算机图形学与虚拟现实

- 真实感水力侵蚀地形建模与绘制 郑顾平, 张 萌, 邵绪强, 伍朝辉 (169)
- DPC: 基于增强现实儿童绘本的多视角评估框架 侯文军, 唐力行 (178)
- 一种基于螺旋摘要的监控视频可视分析系统 姜红涛, 陈晓华, 石 玥, 马翠霞 (187)
- 基于卷积神经网络的蜡染染色模拟 黎 智, 徐 丹 (196)
- 基于 SEM 的交互式公共导视系统体验设计研究
..... 胡 珊, 蒋 旭, 符凯杰, 周明煜, 罗亦鸣, 乔忠林 (204)
- 基于深度学习的个性化对话内容生成方法 王 豪, 郭 斌, 郝少阳, 张秋韵, 於志文 (210)
- 基于 BCI 的虚拟现实模拟驾驶教学系统设计 滕 健, 黄佳慧, 宫 凯 (217)
- 一种面向无人机视频的多尺度摘要的设计与实现 杨大慎, 陈科圻, 马翠霞 (224)
- 污水处理厂虚拟现实教学软件开发及应用 邱远航, 孙贤波, 刘勇弟, 蔡正清, 徐宏勇 (233)
- 基于贪心策略的多结点并行光线跟踪负载均衡算法 刘云彪, 陈纯毅, 胡小娟, 邢琦玮, 杨华民 (237)
- 基于安德森加速的快速 B 样条拟合算法 秦文杰, 张举勇 (246)

图像处理与计算机视觉

- 局部二值描述子的研究进展综述 边后琴, 张皓霖, 黄福珍 (254)
- 基于 CNN 的彩色图像引导的深度图像超分辨率重建 王紫薇, 邓慧萍, 向 森, 杨建帆 (262)
- 基于模板替换的室内场景建模方法研究 张肇轩, 王诚斌, 杨 鑫, 朴星霖, 王鹏杰, 尹宝才 (270)
- 基于 ResNeXt 的人体动作识别 蒋圣南, 陈恩庆, 郑铭耀, 段建康 (277)

数字化设计与制造

- 猪皮对球形弹丸阻滞作用的仿真研究 汤成莉, 刘苏苏, 杨玉萍, 房佳恒 (283)
- 拉伸载荷下钢芯铝绞线的力学特性仿真分析 周昕恺, 瞿 畅, 刘苏苏, 姚建南, 汪晶晶 (288)
- 几何要素误差传递关系图的建立方法 杨灵锋, 吴玉光 (295)

建筑与城市信息模型

- 基于属性相似性度量的 BIM 构件聚类 王万齐, 马宝睿, 李 倩, 卢文龙, 刘玉身 (304)
- 基于图论的建筑机电设备逻辑关系自动提取方法 许璟琳, 高 尚, 余芳强 (313)

工程图学

- 土木工程计算机绘图教学改革研究与实践 杨万理, 王 宁, 王广俊 (319)

CONTENTS

Computer Graphics and Virtual Reality

- Realistic modeling and rendering of hydraulic erosion terrain
..... ZHENG Gu-ping, ZHANG Meng, SHAO Xu-qiang, WU Zhao-hui (169)
- DPC: multi-perspective evaluation framework based on augmented reality children's picture books
..... HOU Wen-jun, TANG Li-xing (178)
- Surveillance video analysis system based on SpiralTape summarization
..... JIANG Hong-tao, CHEN Xiao-hua, SHI Yue, MA Cui-xia (187)
- Batik dyeing simulation based on convolutional neural network LI Zhi, XU Dan (196)
- Research on experience design of interactive public guidance system based on SEM
..... HU Shan, JIANG Xu, FU Kai-jie, ZHOU Ming-yu, LUO Yi-ming, QIAO Zhong-lin (204)
- Personalized dialogue content generation based on deep learning
..... WANG Hao, GUO Bin, HAO Shao-yang, ZHANG Qiu-yun, YU Zhi-wen (210)
- Design of virtual reality simulated driving teaching system based on BCI..... TENG Jian, HUANG Jia-hui, GONG Kai (217)
- Design and implementation of a multi-scale summarization for unmanned aerial vehicle videos
..... YANG Da-shen, CHEN Ke-qi, MA Cui-xia (224)
- Development and application of virtual reality software for the practical teaching of sewage treatment plant
..... QIU Yuan-hang, SUN Xian-bo, LIU Yong-di, CAI Zheng-qing, XU Hong-yong (233)
- Load balancing algorithm based on greedy strategy for multi-node parallel ray tracing
..... LIU Yun-biao, CHEN Chun-yi, HU Xiao-juan, XING Qi-wei, YANG Hua-min (237)
- Anderson acceleration for B-spline curve fitting..... QIN Wen-jie, ZHANG Ju-yong (246)

Image Processing and Computer Vision

- Review on related studies of local binary descriptors BIAN Hou-qin, ZHANG Hao-lin, HUANG Fu-zhen (254)
- Super-resolution reconstruction of depth image guided by color image based on CNN
..... WANG Zi-wei, DENG Hui-ping, XIANG Sen, YANG Jian-fan (262)
- Indoor scene modeling method based on template replacement
..... ZHANG Zhao-xuan, WANG Cheng-bin, YANG Xin, PIAO Xing-lin, WANG Peng-jie, YIN Bao-cai (270)
- Human action recognition based on ResNeXt..... JIANG Sheng-nan, CHEN En-qing, ZHEN Ming-yao, DUAN Jian-kang (277)

Digital Design and Manufacture

- Simulation study on the blocking effect of pig skin on spherical projectile
..... TANG Cheng-li, LIU Su-su, YANG Yu-ping, FANG Jia-heng (283)
- Simulation analysis on mechanical properties of aluminium cable steel reinforced under tensile load
..... ZHOU Xin-kai, QU Chang, LIU Su-su, YAO Jian-nan, WANG Jing-jing (288)
- Construction method of error transfer graph of geometric elements..... YANG Ling-feng, WU Yu-guang (295)

BIM/CIM

- Clustering of BIM components based on similarity measurement of attributes
..... WANG Wan-qi, MA Bao-rui, LI Qian, LU Wen-long, LIU Yu-shen (304)
- Automatic extraction method of logic relationship of electromechanical device based on graph theory
..... XU Jing-lin, GAO Shang, YU Fang-qiang (313)

Engineering Graphics

- Research and practice on teaching reform of civil engineering computer aided drawing
..... YANG Wan-li, WANG Ning, WANG Guang-jun (319)