

目 次

智能优化算法

- 非规则 Pareto 前沿面多目标进化优化算法研究综述 华一村, 刘奇奇, 郝矿荣, 金耀初(1)
两阶段搜索的多模态多目标差分进化算法 汪慎文, 张佳星, 褚晓凯, 刘 飙, 王 晖(9)

电气工程

- 建立电力系统状态空间方程的并行方法 王克文, 冶梦雨, 刘艳红(15)
改进的 VMD-HT 在电能质量扰动检测中的应用 廖晓辉, 陈川川(21)

图像图形

- 改进 YOLOv3 算法与人体信息数据融合的视频监控检测方法 张 震, 李浩方, 李孟洲, 马军强(28)
针对伪影改善的图像拼接方法 姚 莉, 杜俊康, 李长顺(35)
结合特权信息与注意力机制的场景识别 孙 宁, 王龙玉, 刘信鑫, 韩 光(42)
基于 SmsGAN 的对抗样本修复 赵俊杰, 王金伟(50)
基于多任务学习的初始图像对选取方法 刘宇翔, 张茂军, 颜 深, 李京蓓, 彭 杨(56)

土木工程

- 考虑胶结退化的水泥土边界模型及参数研究 闫富有, 崔 昊, 李俊超, 郜新军(63)
水下 FG 圆柱壳临界载荷和固有频率预测方法 李 戎, 杨 萌, 刘林霞, 梁 斌(70)
融雪盐对沥青混合料的腐蚀作用研究 张文刚, 王 芳, 丁龙亭(77)
冷再生用乳化沥青稳定性评价指标研究 汪德才, 郝培文, 孙 杨, 李瑞霞(82)
地基基础检测 P-BIM 模型的设计与应用 刘海林, 杜思义, 宝鹏辉(89)

机械工程及其他

- 基于样件测试法的五轴机床误差辨识方法 梅盛开, 李 松, 袁 伟, 郭前建(94)
不同切角方柱斜切体驰振压电能量收集研究 王军雷, 张程雲, 陈卫哲, 吴义鹏, 王定标, 靳遵龙(99)
内地机场航空物流辐射范围及格局演变研究 李玉民, 刘 阳, 王显舜(105)

CONTENTS

[Intelligent Optimization Algorithms]

- A Survey of Evolutionary Algorithms for Multi-objective Optimization Problems with Irregular Pareto Fronts
..... HUA Yicun, LIU Qiqi, HAO Kuangrong, JIN Yaochu (1)

- Multimodal Multi-objective Differential Evolution Algorithm Based on Two-Stage Search
..... WANG Shenwen, ZHANG Jiaxing, CHU Xiaokai, LIU Hong, WANG Hui (9)

[Electrical Engineering]

- Parallel Method for Establishing State Space Equation of Power System
..... WANG Kewen, YE Mengyu, LIU Yanhong (15)

- Application of Improved VMD-HT in Power Quality Disturbance Detection LIAO Xiaohui, CHEN Chuanchuan (21)

[Image and Graphics]

- Video Surveillance Detection Method Based on Improved YOLOv3 Algorithm and Human Body Information Data Fusion
..... ZHANG Zhen, LI Haofang, LI Mengzhou, MA Junqiang (28)

- Image Stitching Method for Improvement of Artifact YAO Li, DU Junkang, LI Changshun (35)

- Scene Recognition Based on Privilege Information and Attention Mechanism
..... SUN Ning, WANG Longyu, LIU Jixin, HAN Guang (42)

- Recovery of Adversarial Examples Based on SmsGAN ZHAO Junjie, WANG Jinwei (50)

- Selecting Initial Image Pairs Based on Multi-task Learning
..... LIU Yuxiang, ZHANG Maojun, YAN Shen, LI Jingbei, PENG Yang (56)

[Civil Engineering]

- Bounding Surface Model and Parameters Study on Describing the Behavior of Cement-treated Clay with Cementation Degradation
..... YAN Fuyou, CUI Hao, LI Junchao, GAO Xinjun (63)

- Prediction Method for Critical Buckling Pressure and Natural Frequency of Submerged Functionally Graded Cylindrical Shell
..... LI Rong, YANG Meng, LIU Linxia, LIANG Bin (70)

- Corrosion Behavior of Melting Snow Salt on Asphalt Mixtures
..... ZHANG Wengang, WANG Fang, DING Longting (77)

- Stability Evaluation Indexes of Emulsified Asphalt for Cold Regeneration
..... WANG Decai, HAO Peiwen, SUN Yang, LI Ruixia (82)

- Design and Application of Foundation-based Detection P-BIM Model LIU Hailin, DU Siyi, BAO Penghui (89)

[Mechanical Engineering and Others]

- Error Identification Method of Five-axis Machine Tool Based on Sample Test Method
..... MEI Shengkai, LI Song, YUAN Wei, GUO Qianjian (94)

- Study on Piezoelectric Energy Harvesting of Square Column Oblique Body at Different Angles
..... WANG Junlei, ZHANG Chengyun, CHEN Weizhe, WU Yipeng, WANG Dingbiao, JIN Zunlong (99)

- Delimitation and Evolution Pattern of Chinese Airports' Aviation Logistics Space Radiation Scopes
..... LI Yumin, LIU Yang, WANG Xianshun (105)