

## 目 次

### 图像图形

- 基于无配对生成对抗网络的图像超分辨率重建 ..... 李学相, 曹 淇, 刘成明( 1 )
- 基于特征子空间直和的跨年龄人脸识别方法 ..... 叶继华, 郭祺玥, 江爱文, 黎 欣( 7 )
- 基于多尺度特征融合的火灾检测模型 ..... 张坚鑫, 郭四稳, 张国兰, 谭 琳( 13 )
- 融合图像深度的抗遮挡目标跟踪算法 ..... 王希鹏, 李 永, 李 智, 张 妍( 19 )
- 水体微纤维图像识别的改进 MobileNetV2 算法 ..... 吕璐璐, 陈树越, 王利平, 许 霞( 25 )

### 智能信息

- 基于主动安全的改进人工势场局部路径规划研究 ..... 张三川, 明 珠( 32 )
- 双腔光反馈干涉激光系统中 Lang-Kobayashi 方程的六阶龙格-库塔算法 .....  
..... 于芳星, 姬 波, CHENG Quanrun, 卢红星, 柳宏川( 37 )
- 不确定环境下救灾部队驻地选址及搜救路径优化 ..... 黄 茜, 王书勤, 邓少鸿, 范林军( 44 )
- 一种基于业务感知和可调节跳数的虚拟化层构建算法 ..... 马 丁, 费 选, 慕小武( 50 )
- 基于卷积自编码器网络的脉搏波分类模型 .....  
..... 逯 鹏, 王汉章, 毛晓波, 赵宇平, 刘 超, 尚莉伽, 孙智霞( 56 )
- 认知车联网频谱分配的免疫优化实现 ..... 马 歌, 贾遂民( 62 )

### 土木工程

- 再生粗骨料取代率对再生保温混凝土徐变的影响 ..... 黄嘉钰, 刘元珍, 高宇璇, 王朝旭( 68 )
- 桥梁顶推施工导梁屈曲分析及加固措施研究 ..... 时晓晔, 梁 岩, 万德坤, 陈 淮, 方磊磊( 74 )
- 热力耦合途径下再生保温混凝土的细观力学性能 .....  
..... 苗艳春, 张 玉, 雷 闯, 李明厚, 刘元珍, 李 珠( 79 )

### 电气工程

- 模块化多电平矩阵换流器准比例谐振控制研究 ..... 王明东, 周 威, 李晓蕾, 李忠文, 王子胥( 86 )
- 商业建筑 HVAC 电力需求响应综述与分析 .....  
..... 孟庆龙, 王文强, 李为林, 熊成燕, 李 洋, 任效效( 92 )

### 化工与材料

- 基体碳种类对 C/Cu 复合材料界面浸润行为的影响 .....  
..... 朱 强, 张东生, 范宇恒, 张 静, 赵红亮( 100 )
- D5 中聚酯结构变化的分子模拟研究 ..... 郑 瑾, 张 琦, 宋 梦, 王冬爽, 杨 凯, 焦明立( 106 )

CONTENTS

【Image and Graphics】

Image Super-resolution Based on No Match Generative Adversarial Network .....	LI Xuexiang, CAO Qi, LIU Chengming ( 1 )
Cross-age Face Recognition Method Based on Feature Subspace Direct Sum .....	YE Jihua, GUO Qiyue, JIANG Aiwen, LI Xin ( 7 )
Fire Detection Model Based on Multi-scale Feature Fusion .....	ZHANG Jianxin, GUO Siwen, ZHANG Guolan, TAN Lin ( 13 )
Anti-occlusion Target Tracking Algorithm Based on Image Depth .....	WANG Xipeng, LI Yong, LI Zhi, ZHANG Yan ( 19 )
An Improved MobileNetV2 Algorithm for Image Recognition of Microfibers in Water .....	LYU Lulu, CHEN Shuyue, WANG Liping, XU Xia ( 25 )

【Intelligent Information】

Research on Improved Local Path Planning of Artificial Potential Field Based on Active Safety .....	ZHANG Sanchuan, MING Zhu ( 32 )
Sixth Order Runge-Kutta Algorithm for Lang-Kobayashi Equation of Dual-cavity Optical Feedback Interference Laser System .....	YU Fangxing, JI Bo, CHENG Quanrun, LU Hongxing, LIU Hongchuan ( 37 )
Study on Location-routing Problem of Earthquake Relief Troops in Uncertain Environment .....	HUANG Qian, WANG Shuqin, DENG Shaohong, FAN Linjun ( 44 )
A VNF-aware Virtualization Layer Constructing Algorithm Based on Adjustable Hop Count .....	MA Ding, FEI Xuan, MU Xiaowu ( 50 )
Pulse Wave Classification Model Based on Convolutional Autoencoder .....	LU Peng, WANG Hanzhang, MAO Xiaobo, ZHAO Yuping, LIU Chao, SHANG Lijia, SUN Zhixia ( 56 )
Immune Optimization Based on Spectrum Allocation of Cognitive Vehicular Network .....	MA Ge, JIA Suimin ( 62 )

【Civil Engineering】

Study on Influence of Recycled Coarse Aggregate Replacement Rate on Creep of Recycled Thermal Insulation Concrete .....	HUANG Jiayu, LIU Yuanzhen, GAO Yuxuan, WANG Zhaoxu ( 68 )
Buckling Analysis of Guide Beams in Bridge Jacking Construction and Study on Reinforcement Measures .....	SHI Xiaoye, LIANG Yan, WAN Dekun, CHEN Huai, FANG Leilei ( 74 )
Meso-scale Response of Recycled Aggregate Thermal Insulation Concrete Based on Coupled Thermo-mechanical Modeling .....	MIAO Yanchun, ZHANG Yu, LEI Chuang, LI Minghou, LIU Yuanzhen, LI Zhu ( 79 )

【Electrical Engineering】

Research on Quasi-proportional Resonant Control of Modular Multilevel Matrix Converter .....	WANG Mingdong, ZHOU Wei, LI Xiaolei, LI Zhongwen, WANG Zixu ( 86 )
HVAC Demand Response in Commercial Buildings: A Review .....	MENG Qinglong, WANG Wenqiang, LI Weilin, XIONG Chengyan, LI Yang, REN Xiaoxiao ( 92 )

【Chemical Engineering and Material Engineering】

Effect of Matrix Carbon Species on Interface Wetting Behavior of C/Cu Composites .....	ZHU Qiang, ZHANG Dongsheng, FAN Yuheng, ZHANG Jing, ZHAO Hongliang ( 100 )
Molecular Simulation Study on Structural Change of Polyesters in D5 .....	ZHENG Jin, ZHANG Qi, SONG Meng, WANG Dongshuang, YANG Kai, JIAO Mingli ( 106 )