

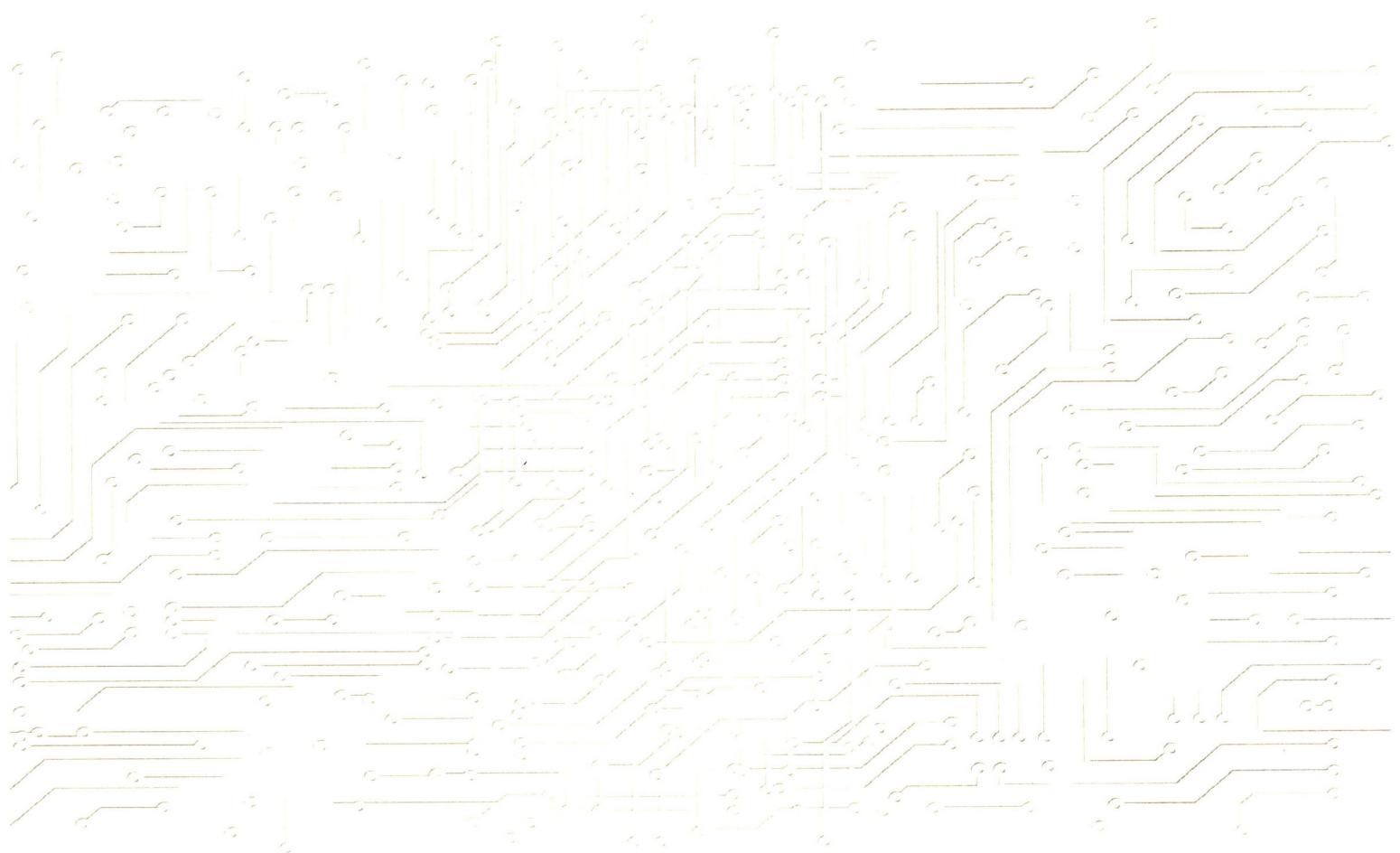
中国人文社会科学引文数据库来源期刊  
中国核心期刊（遴选）数据库来源期刊  
《中国期刊网》全文收录期刊  
《中国学术期刊（光盘版）》全文收录期刊  
RCCSE 中国核心学术期刊

Q K 2 0 3 6 9 4 7 4

# 广东技术师范大学

JOURNAL OF GUANGDONG POLYTECHNIC NORMAL UNIVERSITY

## 学报



第41卷  
总第169期  
2020 3

# 目 录

## 信息技术

基于改进 A\* 算法的无人配送车避障最优路径规划

.....陈荣军，谢永平，于永兴，赵慧民，卢旭，陆许明（1）

基于椭圆拟合的改进 Hough 变换算法在眼控系统中的应用研究

.....梁琼，赵慧民，葛任贤，熊建斌，杨盛雄，苏冠元（9）

基于生成对抗网络的文本引导人物图像编辑方法

.....黄韬，贾西平，林智勇，马震远（16）

基于时间数字转换技术的区域周界入侵定位系统研究.....王小燕（24）

基于机器视觉的道路边界识别算法研究

.....莫玲，林维，姚屏，肖苏华，李纬华（28）

基于流量分类的 SDN 网络服务质量保障研究 .....周菲，李昭桦（33）

## 数学研究

基于 AHP 和模糊综合评价法的现代人肥胖情况分析

——以韶关市浈江区居民为例 .....李银，刘丽芬，卢利敏（40）

一类具有转换条件且两端边界条件带谱参数的 J- 自伴算子

.....罗佩芳，黄贊（44）

一类具有拟牛顿形式的共轭梯度法 .....李安玭，刘海林（49）

**基于确定评价专家权重方案的模糊多属性群决策方法**

..... 朱国成, 赵殿品, 张世英 ( 56 )

**课程教学****基于工作过程的中职《工业机器人技术基础》课程开发**

..... 徐兰英, 毛世杰, 何宝兰, 赵 鹏, 伍 强 ( 67 )

**基于工作过程系统化的中职业工业机器人实训课程建设研究**

..... 陈 飞, 肖苏华, 王志勇, 罗永顺, 陈飞昕, 孙洪颖 ( 73 )

**混合式教学法在电路教学实践中的应用探索**

..... 黄 涌, 向 丹, 王晓军, 庄 权, 程俊棠 ( 78 )

**专业与教材建设****基于专业评估认证与新工科背景的建能专业建设探索**

..... 李志生, 刘丽孺, 王晓霞, 吴 俊, 颜 彪 ( 83 )

**现代学徒制下结构化在岗带教手册的研发与探索**

..... 黄舒薇, 姚 屏, 陈民聪, 陈泳竹 ( 89 )

**当前疫情对中国制造业智能化趋势的影响 ..... 朱玮炜, 王晓军 ( 96 )****图书档案****高职院校图书馆员调查与素质提升策略探讨 ..... 周雪虹, 彭海涛 ( 101 )****高校审计档案管理探析 ..... 胡江陵 ( 107 )**

# JOURNAL OF GUANGDONG POLYTECHNIC NORMAL UNIVERSITY

Sum No.169 (Bimonthly)

Vol.41 No.3, 2020

---

## CONTENTS

- Optimal Path Planning for Obstacle Avoidance of Unmanned Distribution Vehicles Based on Improved A\* Algorithm ..... CHEN Rong-jun, XIE Yong-ping, YU Yong-xing, ZHAO Hui-min, LU Xu, LU Xu-ming( 1 )
- Application of Improved Hough Transform Algorithm Based on Ellipse Fitting in Eye-control System ..... LIANG Qiong, ZHAO Hui-min, GE Ren-xian, XIONG Jian-bin, YANG Sheng-xiong, SU Guan-yuan( 9 )
- Text Guided Person Image Editing Method Based on Generative Adversarial Networks ..... HUANG Tao, JIA Xi-ping, LIN Zhi-yong, MA Zhen-yuan( 16 )
- Research on Security Intrusion Location System Based on Time Digital Conversion Technology ..... WANG Xiao-yan( 24 )
- Research on Road Boundary Recognition Algorithm Based on Machine Vision ..... MO Ling, LIN Wei, YAO Pin, XIAO Su-hua, LI Wei-hua( 28 )
- Research on Service Quality Guarantee of SDN Network: Based on Traffic Classification ..... ZHOU Fei , LI Zhao-hua( 33 )
- Analysis of Obesity in Modern People Based on AHP and Fuzzy Comprehensive Evaluation: The Cases of Residents in Zhenjiang District of Shaoguan City ..... LI Yin, LIU Li-fen, LU Li-min( 40 )
- A Class of J-selfadjoint Operators with Spectral-parameters and Conversion Conditions in Two Boundary Conditions ..... LUO Pei-fang, HUANG Zan( 44 )
- A Conjugate Gradient Method with Quasi-Newton Form ..... LI An-pin, LIU Hai-lin( 49 )
- A Method for Fuzzy Multi-Attribute Group Decision Making Based on Determining Evaluation Expert Weight Scheme ..... ZHU Guo-cheng, ZHAO Dian-pin, ZHANG Shi-ying( 56 )
- Fundamentals of Industrial Robot Technology* Curriculum Development Based on Work Process in Secondary Vocational School ..... XU Lan-ying, MAO Shi-jie, HE Bao-lan, ZHAO Peng, WU Qiang( 67 )
- Developing Practical Training Courses for *Industrial Robot* Specialty in Secondary Vocational Schools: Based on Systematization of Work Process ..... CHEN Fei, XIAO Su-hua, WANG Zhi-yong, LUO Yong-shun, CHEN Fei-xin, SUN Hong-ying( 73 )
- Research on the Application of Blended Teaching in *Electric Circuit* Teaching Practice ..... HUANGY Yong, XIANG Dan, WANG Xiao-jun, ZHUANG Quan, CHENG Jun-tang( 78 )
- Exploration on the Development of *Building Environment and Energy Application* Specialty Based on Professional Evaluation, Certification and Emerging Engineering ..... LI Zhi-sheng, LIU li-ru, WANG Xiao-xia, WU Jun, YAN Biao( 83 )
- A Study on the Structured *In-service Teaching and Learning Manual* Based on Modern Apprenticeship System ..... HUANG Shu-wei, YAO Ping, CHEN Min-chong, CHEN Yong-zhu( 89 )
- The Impact of COVID-19 Epidemic on the Intellectualization Trend of Chinese Manufacturing Industry ..... ZHU Wei-wei, WANG Xiao-jun( 96 )
- A Survey Study on Librarian Resources and Strategies for Their Quality Improvement in Higher Vocational Schools ..... ZHOU Xue-hong, PENG Hai-tao(101)
- A Study on the University Audit Archive Management ..... HU Hui-ling(107)
- 

英文目录、英文摘要审校:张艳

# 广东技术师范大学学报

1980年创刊(双月刊)

2020年第3期(第41卷 总第169期)

JOURNAL OF GUANGDONG POLYTECHNIC NORMAL UNIVERSITY

Started in 1980 (Bimonthly)

Number 3,2020 (Vol.41 Sum NO.169)

主管单位:广东省教育厅

主办单位:广东技术师范大学

编辑出版:广东技术师范大学学报编辑部

主编:潘自勉

常务副主编:张敬斌

编辑部主任:张敬斌

地址:广州市中山大道西293号

邮编:510665

电话:(020)38256627 38265447

电子信箱:gjsxbsk@163.com

印刷单位:广州市保诚印务有限公司

发行范围:国内外公开发行

国内发行:广东技术师范大学学报编辑部

国外发行:中国出版对外贸易总公司

(北京782信箱,邮编:100011)

出版日期:2020年6月

Authorities:Education Administration of Guangdong Province

Sponsor:Guangdong Polytechnic Normal University

Editor & Publisher:Editorial Department, Journal of  
Guangdong Polytechnic Normal University

Editor-in-Chief:Pan Zimian

Administrative Vice Editor-in-Chief:Zhang Jingbin

Director of Editorial Department:Zhang Jingbin

Add:No.293,Zhongshan Avenue,Guangzhou 510665,China

Tel:(020)38256627 38265447

Email: gjsxbsk@163.com

Printer:Guangzhou Baocheng Printing Limited Company

Distributed at Home and Abroad

Domestic Distributor:Ed.Dept.of GD Polytechnic Normal Univ.

Overseas Distributor:China Publishing Foreign Trade Corporation  
(P.O.Box 782 Beijing,100011 China)

Published in June, 2020

ISSN 2096-7764



9 772096 776206

ISSN 2096-7764

连续出版物号: CN44-1746/Z

国内定价:10.00元