

2021 年第 13 卷总目次

第 1 期

- 基于扩张观测器的航天器无速度旋量信息姿轨一体化控制
..... 范睿超 孔宪仁 胡文坤 钟智雄 (1)
- 基于执行依赖启发式动态规划的船舶减摇鳍在线最优控制
..... 阮光维 李铁山 于仁海 刘琪 (10)
- 社交网络中的谣言传播模型与全局动力学分析
..... 钟晓静 杨宇琨 赵志甲 (17)
- 智能船舶自动舵系统自适应模糊输出反馈控制
..... 朱丽燕 李铁山 (22)
- 通信受限下基于终端滑模和指对数滑模方法的编队航天器姿态协同控制
..... 易航 陈雪芹 刘明 (29)
- 基于车速依赖静态输出反馈的自主汽车路径跟踪控制
..... 姜正伟 李鹏旭 张斌 李攀硕 (41)
- 基于量化脉冲控制策略的领导跟随多智能体系统的固定时间一致性
..... 董鑫森 李传东 王欣 曹正然 (51)
- 基于事件触发机制的一类非严格反馈非线性系统的自适应神经网络追踪控制
..... 廉玉晓 杨文静 王琳淇 王学良 夏建伟 (59)
- 基于数据驱动高阶学习律的轮式移动机器人轨迹跟踪控制
..... 李佳伟 林娜 池荣虎 (66)
- 基于 K-Means 算法的架空输电线路载流量计算
..... 林锦荣 武云发 廖如超 陈郑淦哲 (73)
- 高阶非线性系统自适应模糊有限时间状态约束控制
..... 范彦丽 李永明 佟绍成 (79)
- 基于 MFAC 的数控机床位置伺服系统
..... 乔凌钰 费玉环 郑凯 马振伟 刘玥 (87)
- 考虑性能约束的航天器近距离悬停控制
..... 张博翔 王理想 王辉 张彦鑫 (93)
- 欺骗攻击下一类神经网络的自适应事件触发 H_{∞} 滤波
..... 王锦霞 高金凤 谭天 (102)
- 基于双幂次滑模的多机器人编队控制
..... 李天龙 柏建军 (111)
- 基于 Mask R-CNN 的遥感影像土地分割与轮廓提取
..... 黎江 许明慧 张羽 (116)
- 面向跟踪系统的多通道传输策略研究
..... 彭志荣 张天乙 温志坤 李健波 陈相德 (124)

第 2 期

- 利用 ERA5 资料进行桂林地区 GNSS 水汽反演精度分析
..... 莫智翔 黄玲 郭希 黄良珂 刘立龙 庞周洲 邓云飞 (131)
- CRA40 在中国地区 GNSS 水汽反演中的适用性评估与分析
..... 刘梦杰 张卫星 张镇驿 楼益栋 梁宏 曹云昌 (138)
- GPT2w 模型在中国大陆地区的精度分析
..... 陈发源 王新志 金双根 (145)
- 基于 GNSS 的 MODIS 大气可降水量校正模型
..... 马赛 岳迎春 上官明 邹玉学 丁茂华 (154)
- 中国区域性大气加权平均温度线性模型精度评估
..... 王明华 曹云昌 梁宏 涂满红 刘志刚 (161)
- 京津冀地区 GNSS ZTD 时序分析及对厄尔尼诺事件的响应
..... 王勇 于腾丽 刘晓 占伟 (170)

动态环境下 PPP 的 GNSS 大气水汽反演	唐旭 吴昊 张迪 (181)
普适型 GPS 用于黄河盐锅峡水位监测分析	马中民 张双成 刘奇 黄观文 康前程 彭继轮 (187)
基于 CyGNSS 数据的土壤水分与植被光学厚度反演研究	严清贇 金双根 黄为民 贾燕 魏思远 (194)
基于 GNSS 的空间环境参数反演平台及精度评估	赵乐文 任嘉倩 丁杨 (204)
COSMIC 与 FY-3C 掩星电离层反演的比较	王涵 徐晓华 罗佳 (211)
基于陆基 GNSS 的电离层时间序列预报研究	陈雨田 岳东杰 (218)
基于智能手机 GNSS 双频原始观测值的电离层延迟提取与分析	徐黎 张宝成 (224)
降水预报-观测概率匹配动态订正法在江西降水集中期的应用与检验	陈翔翔 郭达峰 (233)
天山北坡典型草地净初级生产力对氮沉降及气候变化的响应阈值研究	彭开兵 韩其飞 李超凡 许文强 唐华岗 王婧 张昌银 王珂 (242)
长江三角洲地区大气气溶胶柱单次散射反照率特性研究	张小林 许梦婕 (252)

第3期

深空探测科学仪器研究进展	高震宇 王民建 黄帆 宋爱国 朱利丰 (257)
视觉里程计研究综述	胡凯 吴佳胜 郑翡 张彦雯 陈雪超 鹿奔 (269)
视觉驱动机械臂自主作业技术综述	杨学文 王楠 (281)
基于三维骨骼信息的动态手势识别	熊鹏文 熊昆 张宇 余斯吉 (291)
基于改进蚁群算法的移动机器人路径规划方法	李燕 季建楠 沈葭栋 苏瑞 (298)
基于双目视觉的双臂协作教学机器人研究与设计	温秀兰 胡仰 姚波 赵艺兵 宋爱国 崔伟祥 (304)
危化品仓库安全巡检机器人系统设计与实验研究	包加桐 丁豪 王国田 唐鸿儒 宋爱国 (311)
WAM 机器人辅助上肢康复训练技术应用研究	白敬 张进敏 孙慧玉 王保升 (320)
教学机器人综合实验平台设计与研发	王东霞 赵艺兵 温秀兰 崔伟祥 渠慎林 (327)
基于相关点均值处理的 Kinect 人手位置检测方法研究	殷宏彬 赵悦 唐维彦 林闯旭 陆熊 黄晓梅 (332)
基于力反馈手柄的移动载人月球车操作控制系统	彭维锋 周烨康 谭丽芬 唐子涵 李会军 徐宝国 (340)
基于 Tesseract-OCR 的复杂发票自适应识别	孙瑞彬 钱夔 徐伟敏 路红 (349)
基于滑模状态观测器的两自由度磁悬浮球控制	王伟超 褚晓广 王文轩 宋蕊 (355)
三电平逆变器驱动的 IPMSM 模型预测电流控制系统研究	贾红云 李明阳 (363)
基于去噪和分形的加密货币投资组合模型优化研究	曹广喜 张星宇 (369)
太阳辐射对大型渔光互补光伏电站发电效益影响分析	雷震 郝雨辰 孔伯骏 (377)

第 4 期

- 硅基毫米波收发前端集成电路研究进展
 邱枫 宛操 罗雄耀 邓帅 徐涛涛 梅术聪
 陈嘉文 吴亮 朱浩慎 车文荃 薛泉 (383)
- 差分电感的建模与仿真及其在振荡器电路中的应用
 李超 宛操 朱浩慎 薛泉 (397)
- 基于变压器反馈的平坦噪声系数超宽带 CMOS 低噪声放大器
 吴小平 刘继业 郑士源 吴亮 (405)
- 20~26 GHz 硅基氮化镓可变增益低噪声放大器
 江兰兰 陈宏尘 朱浩慎 冯文杰 车文荃 薛泉 (413)
- 一种改进的威尔金森功分器设计方法
 王杨洋 吴韵秋 赵晨曦 康凯 (420)
- 基于 65-nm CMOS 工艺的 W 波段两路电流合成功率放大器的设计
 黄占秋 张旭 赵晨曦 康凯 (425)
- 2.5~2.7 GHz 高效率低谐波失真的功率放大器
 陈建强 林少鑫 章国豪 (431)
- 宽带横电磁波小室设计与测试应用
 袁钟柱 万发雨 (437)
- 24~30 GHz GaN HEMT 单片集成单刀双掷开关
 曾丁元 朱浩慎 冯文杰 车文荃 薛泉 (444)
- 基于 GaAs pHEMT 实现的毫米波宽频带低插损单刀双掷开关
 张艺 张志浩 章国豪 (450)
- 一种避免涡流产生而减少感性元件品质因数退化的冗余金属填充方法
 康泽辉 杨猛 吴亮 薛泉 (455)
- 一种超宽带高增益对踵 Vivaldi 天线
 陈军 万发雨 (461)
- 基于改进混合蛙跳算法的个性化旅游路线推荐
 申晓宁 王森林 吴俊潮 仇友辉 张磊 李常峰 王玉芳 (467)
- 基于 LSTM-BLS 的突发气象灾害事件中公众情感倾向分析
 罗嘉 王乐豪 涂姗姗 宋鸽 韩莹 (477)
- 基于增广 P 型学习观测器的航天器故障重构和自适应容错控制
 骆天依 李化义 孟庆松 (484)
- 基于 SVM-BP 神经网络的气象能见度数据缺失值预估
 殷利平 刘宵瑜 盛绍学 温华洋 邱康俊 (494)
- 面向估计性能的双通道带宽分配策略研究
 彭志荣 赵曷华 陈惠珍 李伟雄 陈相德 (502)

第 5 期

- 噪声采样区间下具有随机短时滞的网络化系统镇定研究
 胡志佩 苏永康 邓飞其 (509)
- 基于观测器的离散马氏跳变系统的故障估计
 王国良 宋歌 (517)
- 基于深度学习的开放场景下声纹识别系统的设计与实现
 郭新 罗程方 邓爱文 (526)
- 一类非线性中立型随机延迟微分方程的截断型 θ -EM 方法
 李燕 王朝航 高帅斌 (533)
- 随机分布参数切换系统的输入输出有限时间稳定与镇定
 左凰 戴喜生 邓飞其 (540)
- 基于 Q 学习算法的随机离散时间系统的随机线性二次最优追踪控制
 张正义 赵学艳 (548)
- 时变时滞随机广义 Markov 跳变系统的事件触发控制
 杨子吟 邢双云 曹康敏 (556)

基于权重值的竞争深度双 Q 网络算法	汪晨曦 赵学艳 郭新 (564)
基于改进的 LSTM 算法的时间序列流量预测	郭佳丽 邢双云 栾昊 贾艳婷 (571)
不平衡数据下基于 PSO-BP 算法的输电线路弧垂预测	李嘉雨 廖如超 李钰楷 (576)
基于遗忘因子的数据驱动最优迭代学习控制算法研究	李佳伟 林娜 池荣虎 (582)
考虑提前/拖期风险的第四方物流路径优化问题研究	薄桂华 黄敏 柳欣 (589)
企业社会责任下考虑促销投入的供应链优化决策	马鹏 崔家飘 刘勇 (596)
车联网中路边设施的分布式调度策略的研究	顾伟 任勇军 (605)
基于神经网络的人口与经济系统的耦合协调发展分析	张光晨 郝鹏飞 宗鑫 (611)
基于响应面法的轴向磁场永磁记忆电机多目标优化设计	曹永娟 冯亮亮 (620)
基于改进无证书公钥密码的轻量级 DTLS 协议设计	许国栋 刘光杰 乔森 陆赛杰 赵华伟 (628)

第 6 期

基于车载激光点云的道路交叉口检测与识别	方莉娜 王康 (635)
基于人工智能算法的 CYGNSS 数据土壤水分反演	贾燕 金双根 严清赞 郭献涛 (645)
优化 EfficientDet 深度学习的车辆检测	陈西江 安庆 班亚 (653)
顾及相邻点序号差的路面点云自动提取方法研究	马茜茜 沈月千 黄腾 (661)
基于线框分析方法的建筑物主体模型智能构建	王贵文 臧玉府 黄奕舒 (669)
机载激光测深数据配准方法比较	张凡 徐文学 唐玲 王芳 原峰 张敏 (678)
利用多系统 GNSS 干涉反射测量估计长江巴东水位变化	陈昊晟 金双根 业明达 郭孝祖 (686)
基于集成学习方法的 CLDAS 土壤湿度降尺度研究	韩慧敏 沈润平 黄安奇 狄文丽 (693)
一种基于 OMI 数据的中国区域对流层 O_3 的反演方法	徐军 卢毅敏 (707)
基于热红外和夜间灯光遥感的 GDP 空间化研究——以福建省为例	张雪红 吴雨阳 王永俊 甄晓菊 孙艺 薛青宇 刘开颜 (720)
基于深度学习的行为识别算法综述	胡凯 郑翡 卢飞宇 黄昱锟 (730)
基于改进双阶段注意力机制的降水智能预报	戈苗苗 陆振宇 梁邵阳 夏英茹 (744)
海洋科学数据申请审批功能模块设计与实现	宋转玲 苏天赞 丁明 李新放 刘振东 王雯 王燕 (753)

Total Contents of Vol.13, 2021

No.1

- Integrated attitude-orbit control for spacecraft without velocity screw information based on extended state observer *FAN Ruichao KONG Xianren HU Wenkun ZHONG Zhixiong* (9)
- Online optimal control for ship fin stabilizer system based on action dependent heuristic dynamic programming *NGUYEN Quangduy LI Tieshan YU Renhai LIU Qi* (16)
- Global dynamic analysis of a rumor spreading model in online social networks *ZHONG Xiaojing YANG Yukun ZHAO Zhijia* (21)
- Adaptive fuzzy output feedback control for intelligent ship autopilot system *ZHU Liyan LI Tieshan* (28)
- Cooperative attitude control for spacecraft formation with limited communication based on terminal and exponent-logarithmic sliding mode *YI Hang CHEN Xueqin LIU Ming* (40)
- Path-following control of autonomous vehicles based on velocity-dependent static output-feedback strategy *JIANG Zhengwei LI Pengxu ZHANG Bin LI Panshuo* (50)
- Fixed-time consensus in leader-following multi-agent system based on quantized impulsive control *DONG Xinmiao LI Chuandong WANG Xin CAO Zhengran* (58)
- Adaptive neural network tracking control for a class of nonstrict-feedback nonlinear systems based on event-triggering mechanism *LIAN Yuxiao YANG Wenjing WANG Linqi WANG Xueliang XIA Jianwei* (65)
- Data-driven high-order learning control for path tracking of wheeled mobile robots *LI Jiawei LIN Na CHI Ronghu* (71)
- Calculation of current carrying capacity for overhead transmission lines based on K-Means algorithm *LIN Jinrong WU Yunfa LIAO Ruchao CHENZHENG Ganzhe* (78)
- Adaptive fuzzy finite-time control for high-order nonlinear system with state constraints *FAN Yanli LI Yongming TONG Shaocheng* (86)
- Position servo system of CNC machine tool based on MFAC *QIAO Lingyu FEI Yuhuan ZHENG Kai MA Zhenwei LIU Yue* (92)
- Short-range hover control for spacecraft rendezvous and docking with prescribed performance *ZHANG Boxiang WANG Lixiang WANG Hui ZHANG Yanxin* (101)
- Adaptive event-triggered H_∞ filtering for a class of discrete-time neural networks under deception attacks *WANG Jinxia GAO Jinfeng TAN Tian* (110)
- Formation control of the multi-robot system based on dualpower sliding mode *LI Tianlong BAI Jianjun* (115)
- Land segmentation and contour extraction of remote sensing image based on Mask R-CNN *LI Jiang XU Minghui ZHANG Yu* (123)
- Multichannel transmission strategy for tracking system *PENG Zhirong ZHANG Tianyi WEN Zhikun LI Jianbo CHEN Xiangde* (130)

No.2

- Accuracy of ERA5 reanalysis data in retrieving GNSS precipitable water vapor over Guilin *MO Zhixiang HUANG Ling GUO Xi HUANG Liangke LIU Lilong PANG Zhouzhou DENG Yunfei* (136)
- On the applicability of CRA40 in GNSS precipitable water vapor retrieval over China *LIU Mengjie ZHANG Weixing ZHANG Zhenyi LOU Yidong LIANG Hong CAO Yunchang* (144)
- Accuracy analysis of GPT2w model for China's mainland areas *CHEN Fayuan WANG Xinzhi JIN Shuanggen* (153)
- A correction model for MODIS precipitable water vapor based on GNSS data *MA Sai YUE Yingchun SHANGGUAN Ming ZOU Yuxue DING Maohua* (160)
- On the accuracy of regional weighted mean temperature linear models over China *WANG Minghua CAO Yunchang LIANG Hong TU Manhong LIU Zhigang* (169)

GNSS ZTD time series in Beijing-Tianjin-Hebei region and their response to El Niño events	WANG Yong YU Tengli LIU Xiao ZHAN Wei (180)
Precipitable water vapor retrieving using precise point positioning in dynamic scenario	TANG Xu WU Hao ZHANG Di (186)
Monitoring water level change of the Yellow River by universal GPS receivers	MA Zhongmin ZHANG Shuangcheng LIU Qi HUANG Guanwen KANG Qiancheng PENG Jilun (193)
Retrievals of soil moisture and vegetation optical depth using CyGNSS data	YAN Qingyun JIN Shuanggen HUANG Weimin JIA Yan WEI Siyuan (203)
Platform for GNSS real-time space environment parameter inversion and its accuracy evaluation	ZHAO Lewen REN Jiaqian DING Yang (210)
Comparison of ionospheric inversions between COSMIC and FY-3C radio occultation missions	WANG Han XU Xiaohua LUO Jia (217)
Ionospheric time series forecast based on land-based GNSS	CHEN Yutian YUE Dongjie (223)
Retrieval of ionospheric delay based on smartphone raw GNSS dual-frequency observations	XU Li ZHANG Baocheng (232)
Application and analysis of forecast-observed precipitation probability matching dynamic correction method in precipitation concentration period of Jiangxi province	CHEN Xiangxiang GUO Dafeng (241)
Effects of nitrogen deposition and climate change on NPP of typical grasslands on the northern slopes of Tianshan Mountain	PENG Kaibing HAN Qifei LI Chaofan XU Wenqiang TANG Huagang WANG Jing ZHANG Changyin WANG Ke (251)
Aerosol column single scattering albedos over the Yangtze Delta region	ZHANG Xiaolin XU Mengjie (255)

No.3

Development of scientific instruments for deep space exploration	GAO Zhenyu WANG Minjian HUANG Fan SONG Aiguo ZHU Lifeng (268)
A survey of visual odometry	HU Kai WU Jiasheng ZHENG Fei ZHANG Yanwen CHEN Xuechao LU Ben (280)
Review on autonomous operation technology of vision-based manipulator	YANG Xuewen WANG Nan (290)
Dynamic gesture recognition based on 3D skeleton information	XIONG Pengwen XIONG Kun ZHANG Yu YU Siji (297)
Mobile robot path planning based on improved ant colony algorithm	LI Yan JI Jiannan SHEN Jiali SU Rui (303)
Design of dual-arm cooperative teaching robot based on binocular vision	WEN Xiulan HU Yang YAO Bo ZHAO Yibing SONG Aiguo CUI Weixiang (310)
Design of a patrol robot system for safety inspection in hazardous chemical warehouse	BAO Jiatong DING Hao WANG Guotian TANG Hongru SONG Aiguo (319)
WAM robot-assisted upper limb rehabilitation training technology	BAI Jing ZHANG Jinmin SUN Huiyu WANG Baosheng (326)
Design of a teaching robot comprehensive experimental platform	WANG Dongxia ZHAO Yibing WEN Xiulan CUI Weixiang QU Shenlin (331)
Kinect human hand position detection based on mean processing of correlation points	YIN Hongbin ZHAO Yue TANG Weiyan LIN Minxu LU Xiong HUANG Xiaomei (339)
Driving and control system for mobile manned lunar rover based on force feedback handle	PENG Weifeng ZHOU Yekang TAN Lifan TANG Zihan LI Huijun XU Baoguo (347)
Adaptive recognition of complex invoices based on Tesseract-OCR	SUN Ruibin QIAN Kui XU Weimin LU Hong (354)
Two degree of freedom magnetic levitation ball control based on sliding mode state observer	WANG Weichao CHU Xiaoguang WANG Wenxuan SONG Rui (362)
Model predictive current control for IPMSM driven by three-level inverter	JIA Hongyun LI Mingyang (368)

- Model optimization of cryptocurrency portfolio based on EMD denoising and DCCA methods
 CAO Guangxi ZHANG Xingyu (375)
- Solar radiation influence on power generation benefit of large-scale fishery solar complementary photovoltaic
 power station LEI Zhen HAO Yuchen KONG Bojun (382)

No.4

- Research progress of silicon-based millimeter-wave transceiver front-end integrated circuits
 QIU Feng WAN Cao LUO Xiongyao DENG Shuai XU Taotao MEI Shucong
 CHEN Jiawen WU Liang ZHU Haoshen CHE Wenquan XUE Quan (396)
- Modeling and simulation of differential inductance and its application in oscillator circuit
 LI Chao WAN Cao ZHU Haoshen XUE Quan (404)
- An ultra-wideband CMOS LNA featuring flat noise figure based on transformer feedback
 WU Xiaoping LIU Jiye ZHENG Shiyuan WU Liang (411)
- A 20–26 GHz variable-gain low-noise amplifier using GaN-on-Si technology
 JIANG Lanlan CHEN Hongchen ZHU Haoshen
 FENG Wenjie CHE Wenquan XUE Quan (419)
- An improved design of Wilkinson power divider
 WANG Yangyang WU Yunqiu ZHAO Chenxi KANG Kai (424)
- Design of a W-band two-way current-combining power amplifier in 65-nm CMOS
 HUANG Zhanqiu ZHANG Xu ZHAO Chenxi KANG Kai (430)
- A 2.5–2.7 GHz power amplifier with high efficiency and low harmonic distortion
 CHEN Jianqiang LIN Shaoxin ZHANG Guohao (436)
- Design and test application of broadband TEM cell
 YUAN Zhongzhu WAN Fayu (443)
- A 24–30 GHz GaN HEMT SPDT switch MMIC
 ZENG Dingyuan ZHU Haoshen FENG Wenjie CHE Wenquan XUE Quan (449)
- Millimeter-wave broadband low-loss single-pole double-throw switch based on a GaAs pHEMT technology
 ZHANG Yi ZHANG Zhihao ZHANG Guohao (454)
- A dummy metal filling method to avoid the generation of eddy currents and the quality factor degeneration
 of inductive elements KANG Zehui YANG Meng WU Liang XUE Quan (460)
- An ultra-wideband high-gain antipodal Vivaldi antenna
 CHEN Jun WAN Fayu (466)
- Personalized travel route recommendation based on an improved shuffled frog leaping algorithm
 SHEN Xiaoning WANG Senlin WU Junchao QIU Youhui
 ZHANG Lei LI Changfeng WANG Yufang (476)
- Analysis of public sentiment tendency in sudden meteorological disasters based on LSTM-BLS
 LUO Jia WANG Lehao TU Shanshan SONG Ge HAN Ying (483)
- Fault reconstruction and adaptive fault-tolerant control of spacecraft based on augmented P-type
 learning observer LUO Tianyi LI Huayi MENG Qingsong (493)
- SVM-BP neural network based meteorological visibility data filling
 YIN Liping LIU Xiaoyu SHENG Shaoxue WEN Huayang QIU Kangjun (500)
- Dual-channel bandwidth allocation strategy for estimation performance
 PENG Zhirong ZHAO Zhuhua CHEN Huizhen LI Weixiong CHEN Xiangde (508)

No.5

- Stabilization of networked systems with stochastic time-varying short delays;the noisy sampling intervals case
 HU Zhipei SU Yongkang DENG Feiqi (516)
- Observer-based fault estimation for discrete-time Markovian jump systems
 WANG Guoliang SONG Ge (525)
- A deep learning-based speaker recognition system for open set scenarios
 GUO Xin LUO Chengfang DENG Aiwen (532)
- The truncated θ -EM method for a class of nonlinear neutral stochastic delay differential equations
 LI Yan WANG Zhaohang GAO Shuaibin (539)
- Input-output finite-time stability and stabilization of stochastic distributed parameter switched systems
 ZUO Huang DAI Xisheng DENG Feiqi (547)

Stochastic linear quadratic optimal tracking control for stochastic discrete time systems based on Q-learning	ZHANG Zhengyi ZHAO Xueyan (555)
Event-triggered control of stochastic singular Markov jump systems with time-varying delays	YANG Zihan XING Shuangyun CAO Kangmin (563)
Weighted dueling double deep Q-network	WANG Chenxi ZHAO Xueyan GUO Xin (570)
Prediction of time series traffic based on improved LSTM algorithm	GUO Jiali XING Shuangyun LUAN Hao JIA Yanting (575)
Transmission line sag prediction based on PSO-BP neural network with unbalanced data	LI Jiayu LIAO Ruchao LI Yukai (581)
Forgetting factor based data-driven optimal iterative learning control	LI Jiawei LIN Na CHI Ronghu (588)
Routing optimization in fourth-party logistics with earliness/tardiness risk	BO Guihua HUANG Min LIU Xin (595)
Supply chain's optimal decisions with considering promotional investment under corporate social responsibility	MA Peng CUI Jiapiao LIU Yong (604)
Distributed scheduling strategies for RSUs in VANETs	GU Wei REN Yongjun (610)
Analysis of coupling and coordinated development for population and economic system based on neural network	ZHANG Guangchen HAO Pengfei ZONG Xin (618)
Multi-objective optimization design of axial-flux permanent magnet memory motor based on response surface method	CAO Yongjuan FENG Liangliang (627)
Lightweight DTLS protocol design based on improved certificateless public key cryptography	XU Guodong LIU Guangjie QIAO Sen LU Saijie ZHAO Huawei (634)

No.6

Road intersection detection and recognition based on mobile laser scanning	FANG Lina WANG Kang (644)
Retrievals of soil moisture from the CYGNSS data based on artificial intelligence algorithms	JIA Yan JIN Shuanggen YAN Qingyun GUO Xiantao (652)
Optimized EfficientDet deep learning model for vehicle detection	CHEN Xijiang AN Qing BAN Yan (660)
Automatic extraction of road surface point cloud considering the difference of neighboring point serial numbers	MA Xirui SHEN Yueqian HUANG Teng (668)
Intelligent construction of main building structure model based on wireframe analysis	WANG Benwen ZANG Yufu HUANG Yishu (676)
Comparison of airborne LiDAR bathymetry data registration methods	ZHANG Fan XU Wenxue TANG Ling WANG Fang YUAN Feng ZHANG Min (685)
Water level changes at Badong station of the Yangtze River from multi-GNSS interferometric reflectometry	CHEN Haosheng JIN Shuanggen YE Mingda GUO Xiaozu (692)
Downscaling of CLDAS soil moisture based on ensemble learning method	HAN Huimin SHEN Runping HUANG Anqi DI Wenli (706)
Inversion of tropospheric ozone over China based on OMI data	XU Jun LU Yimin (719)
GDP spatialization based on thermal infrared and night light remote sensing—a case study in Fujian province	ZHANG Xuehong WU Yuyang WANG Yongjun ZHEN Xiaojun SUN Yi XUE Qingyu LIU Kaiyan (729)
A survey of action recognition algorithms based on deep learning	HU Kai ZHENG Fei LU Feiyu HUANG Yukun (743)
Intelligent precipitation forecast based on improved dual-stage attention mechanism	GE Miaomiao LU Zhenyu LIANG Shaoyang XIA Yingru (752)
Design and implementation of marine scientific data access application and approval module	SONG Zhuanling SU Tianyun DING Ming LI Xinfang LIU Zhendong WANG Wen WANG Yan (760)