

目 次

一种多路视频的 360 度实时拼接技术	黄樟欽, 母 召, 岑 陈, 高 寒 (1)
融合局部语义和全局结构信息的健康问句分类	张志昌, 张治满, 张珍文 (9)
车间环境下机器人语音控制的特征提取算法	王晓华, 要鹏超, 马丽萍, 王文杰, 张 蕾 (16)
结合形变模型的人体姿态估计优化算法	李 健 张皓若 何 斌 (23)
AIN 薄膜 PMUT 阵列指向性仿真分析与阵列优化	娄利飞, 安再芳, 李艺宁, 赵明阳, 赵建新 (32)
压缩激励机制驱动的尿液细胞图像分类算法	宋建锋, 韦 玥, 苗启广, 权义宁, 陈毓生 (39)
一种用于点云分类的轻量级深度神经网络	闫 林, 刘 凯, 段玫好 (46)
采用羟乙基纤维素膜的光纤相对湿度传感器	李金泽, 张建奇, 孙 浩 (54)
SHVC 中帧内预测快速算法	李 强, 左 静, 王海宁 (60)
利用非对称锁的高并发 NVM 存储系统	蔡 涛, 刘佩瑶, 王 杰, 牛德姣, 贺庆建, 陈志鹏 (67)
飞行器强化学习多模在轨控制	张 英, 韦闽峰, 王世会, 陶磊岩, 曹 健, 张 兴 (75)
一种改进的引力搜索算法及其波束赋形	孙翠珍, 丁 君, 郭陈江 (83)
高精度宽带欠定信号快速 DOA 估计方法	蒋 莹, 冯明月, 徐 起, 何 翼 (91)
卷积神经网络训练访存优化	王吉军, 郝子宇, 李宏亮 (98)
一种卫星影像 RPC 参数的 HEIV 估计方法	周 瑜, 胡 莘, 曹锴郎, 周拥军, 李云松 (108)
一种硬盘故障预测的非监督对抗学习方法	姜少彬, 杜 春, 陈 浩, 李 军, 伍江江 (118)
超密集异构网络中过载 MEC 服务器的协作卸载	王 忍, 王 翊, 胡艳军, 蒋 芳, 许耀华 (126)
RM 逻辑伪装门的硬件混淆设计	吴秋丰, 张跃军, 汪鹏君, 张会红 (135)
郝跃院士获“2019 年度陕西省最高科学技术奖”	(142)
简讯	(74)(117)

Contents

360-degree real-time stitching technology for multi-channel video	<i>HUANG Zhangqin, MU Zhao, CEN Chen, GAO Han</i>	(1)
Classifying health questions with local semantic and global structural information	<i>ZHANG Zhichang, ZHANG Zhiman, ZHANG Zhenwen</i>	(9)
Algorithm for extraction of features of robot speech control in the factory environment	<i>WANG Xiaohua, YAO Pengchao, MA Liping, WANG Wenjie, ZHANG Lei</i>	(16)
Optimization algorithm for estimating the human pose by using the morphable model	<i>LI Jian, ZHANG Haoruo, HE Bin</i>	(23)
Simulation analysis of directivity and optimization of the array of the AlN thin film PMUT array	<i>LOU Lifei, AN Zaifang, LI Yining, ZHAO Mingyang, ZHAO Jianxin</i>	(32)
Urine cell image classification algorithm based on the squeeze and excitation mechanism	<i>SONG Jianfeng, WEI Yue, MIAO Qiguang, QUAN Yining, CHEN Yusheng</i>	(39)
Lightweight deep neural network for point cloud classification	<i>YAN Lin, LIU Kai, DUAN Meiyu</i>	(46)
Optical fiber relative humidity sensor using the hydroxyethyl cellulose hydrogel film	<i>LI Jinze, ZHANG Jianqi, Sun Hao</i>	(54)
Fast algorithm for intra prediction in quality SHVC	<i>LI Qiang, ZUO Jing, WANG Haining</i>	(60)
Highly concurrent NVM storage system based on the asymmetric lock	<i>CAI Tao, LIU Peiyao, WANG Jie, NIU Dejiao, HE Qingjian, CHEN Zhipeng</i>	(67)
Aircraft reinforcement learning multi-mode control in orbit	<i>ZHANG Ying, WEI Minfeng, WANG Shihui, TAO Leiyan, CAO Jian, ZHANG Xing</i>	(75)
Improved gravitational search algorithm for shaped beam forming	<i>SUN Cuizhen, DING Jun, GUO Chenjiang</i>	(83)
Fast DOA estimation methods for underdetermined wideband signals with a high accuracy	<i>JIANG Ying, FENG Mingyue, XU Qi, HE Yi</i>	(91)
Optimization of memory access for the convolutional neural network training	<i>WANG Jijun, HAO Ziyu, LI Hongliang</i>	(98)
Satellite image RPC parameters estimation method using the heteroscedastic errors-in-variables model	<i>ZHOU Yu, HU Xin, CAO Kailang, ZHOU Yongjun, LI Yunsong</i>	(108)
Unsupervised adversarial learning method for hard disk failure prediction	<i>JIANG Shaobin, DU Chun, CHEN Hao, LI Jun, WU Jiangjiang</i>	(118)
Collaborative offloading of overloaded MEC servers in ultra-dense heterogeneous networks	<i>WANG Ren, WANG Yi, HU Yanjun, JIANG Fang, XU Yaohua</i>	(126)
Hardware obfuscation design of the RM logical camouflage gate	<i>WU Qiufeng, ZHANG Yuejun, WANG Pengjun, ZHANG Huihong</i>	(135)