

信电号角系列学术报告——

ICSaid2021 第三分会场报告

Session 3: Agricultural Artificial Intelligence	
July 11, 2021 (Sunday)	
Room 245, CIEE, CAU	
Moderator: Associate Prof. Ran Zhao	
主持人: 赵然 副教授	
08:30-08:50	Application of Artificial Intelligence in Intelligent Fish Feeding Prof. Chao Zhou National Engineering Research Center for Information Technology in Agriculture 人工智能应用于鱼类智能投喂的探讨 周超 研究员 国家农业信息技术工程研究中心
08:50-09:10	In Vivo Sensors and On-line Detecting Systems for Information in Plants Prof. Yongbing Long South China Agricultural University 植物体内信息活体传感器与在线检测系统 龙拥兵 教授 华南农业大学
09:10-09:30	Maize Phenotyping Technologies for Breeding Prof. Xiqing Wang China Agricultural University 智慧选材: 玉米表型技术的探索 王喜庆 教授 中国农业大学
09:30-09:50	Methods for Obtaining Phenotypic Parameters of Soybean Based on Computer Vision Associate Prof. Minjuan Wang China Agricultural University

	<p>基于计算机视觉的大豆表型参数获取方法研究</p> <p>王敏娟 副教授</p> <p>中国农业大学</p>
<p>Moderator: Prof. Xiqing Wang</p> <p>主持人：王喜庆 教授</p>	
10:00-10:20	<p>Tomato Early Blight Real Time Detection in Greenhouse</p> <p>Dr. Yan Zhang</p> <p>Beijing Agricultural Information Technology Research Center</p> <p>设施番茄早疫病实时探测方法研究</p> <p>张燕 博士</p> <p>北京农业信息技术研究中心</p>
10:20-10:40	<p>Research on Apple Detection and Video Counting Method Based on Deep Learning</p> <p>Associate Prof. Longsheng Fu</p> <p>Northwest A&F University</p> <p>基于深度学习的苹果检测与视频计数方法研究</p> <p>傅隆生 副教授</p> <p>西北农林科技大学</p>
10:40-11:00	<p>Crop Phenotype Measurement Based on Mobile Platform</p> <p>Yanlong Miao</p> <p>China Agricultural University</p> <p>基于移动测量平台的作物表型快速测量</p> <p>苗艳龙</p> <p>中国农业大学</p>
11:00-11:20	<p>Research Progress on High Throughput Phenotyping for Tropical and Sub-tropical Plants</p> <p>Associate Prof. Xiuhua Li</p> <p>Guangxi University</p> <p>热带亚热带作物的高通量表型研究进展</p> <p>李修华 副教授</p> <p>广西大学</p>
11:20-11:40	<p>Tillering Number Counting System of Winter Wheat Based on Lightweight Convolutional Neural Network</p> <p>Yunxia Li</p>

	<p>China Agricultural University</p> <p>基于轻量级卷积神经网络的冬小麦苗期分蘖数估算系统</p> <p>李云霞</p> <p>中国农业大学</p>
11:40-12:00	<p>Study on Detection of Wheat Scab Disease Based on Near Ground Image</p> <p>Prof. Chengming Sun</p> <p>Yangzhou University</p> <p>基于近地图像的小麦赤霉病检测研究</p> <p>孙成明 教授</p> <p>扬州大学</p>
<p>Moderator: Associate Prof. Minjuan Wang</p> <p>主持人：王敏娟 副教授</p>	
14:00-14:20	<p>Diseases and Pets Articles Identification Model Based on Attention Pooling and Stacked Structure</p> <p>Zhan Tang</p> <p>China Agricultural University</p> <p>基于注意力池化和堆叠式结构的病虫害文献识别模型</p> <p>唐詹</p> <p>中国农业大学</p>
14:20-14:40	<p>Fish Density Estimation Method Based on Deep Learning</p> <p>Song Zhang</p> <p>China Agricultural University</p> <p>基于深度学习的鱼群密度估计方法研究</p> <p>张松</p> <p>中国农业大学</p>
14:40-15:00	<p>Near Infrared Spectroscopy Prediction of Available Nitrogen Content in Vermiculite Matrix of Desert Protected Agriculture</p> <p>Pengfei Zhao</p> <p>Tarim University</p> <p>沙漠设施农业蛭石基质速效氮含量近红外光谱预测</p> <p>赵鹏飞</p> <p>塔里木大学</p>

<p>15:00-15:20</p>	<p>Research on Spectroscopy and Spectral Imaging for Seed Quality Evaluation</p> <p>Le Zhang</p> <p>Beijing Technology and Business University 农作物种子品质光谱及光谱成像评价</p> <p>张乐</p> <p>北京工商大学</p>
<p>15:20-15:40</p>	<p>A Novel Green Fruit Detection Algorithm Based on D2D Framework</p> <p>Jinmeng Wei</p> <p>Shandong Normal University 一种基于 D2D 框架的绿色水果检测算法</p> <p>魏金梦</p> <p>山东师范大学</p>
<p>15:40-16:00</p>	<p>Use Lightweight Neural Network to Realize Disease Identification and Deployment</p> <p>Xianghui Xie</p> <p>Gannan Normal University 利用轻量级神经网络实现病害识别与部署</p> <p>谢湘慧</p> <p>赣南师范大学</p>
<p>Moderator: Associate Prof. Jincun Liu</p> <p>主持人：刘金存 副教授</p>	
<p>16:20-16:40</p>	<p>Identification of Tomato Leaf Diseases Using Convolutional Neural Network with Multi-scale and Feature Reuse</p> <p>Peng Li</p> <p>South China Agricultural University 基于多尺度和特征复用卷积神经网络的番茄叶片病害识别</p> <p>李鹏</p> <p>华南农业大学</p>
<p>16:40-17:00</p>	<p>Research of Machine Learning Algorithm to Predict Canopy Temperature of Brassica Chinensis</p> <p>Mingxin Yang</p> <p>South China Agricultural University 基于机器学习的菜心冠层温度研究</p> <p>杨明欣</p>

	<p>华南农业大学</p>
17:00-17:20	<p>Implementation of Agricultural Question Answering System Based on Knowledge Graph</p> <p>Bokai Zhang</p> <p>China Agricultural University</p> <p>基于知识图谱的农技智能问答系统实现</p> <p>张博凯</p> <p>中国农业大学</p>
17:20-17:40	<p>Intel D435i Depth Camera Data Acquisition and Depth Map Optimization</p> <p>Jinsong Li</p> <p>China Agricultural University</p> <p>Intel d435i 深度相机数据采集及深度图像优化研究</p> <p>李劲松</p> <p>中国农业大学</p>
17:40-17:50	<p>Embedded Artificial Intelligence Curriculum Design and Laboratory Construction</p> <p>Mr. Song Zhao</p> <p>Huaqing Vision Education Group</p> <p>嵌入式人工智能课程设计与实验室建设</p> <p>赵松 经理</p> <p>华清远见教育集团</p>
17:50-18:00	<p>Construction and Application of Measuring Instruments in Artificial Intelligence Laboratory</p> <p>Mr. Zeyuan Wu</p> <p>Fujian Lilipu Optoelectronics Technology Co., Ltd.</p> <p>测量仪器在人工智能实验室的建设与运用</p> <p>吴泽源 经理</p> <p>福建利利普光电科技有限公司</p>