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会议背景与主题

2019 智慧农业创新发展国际研讨会(International Conference on Smart Agriculture Innovation Development (ICSaid2019)将于 2019 年 7 月 19-23 日在北京中国农业大学国际会议中心举行。

本次会议旨在推动智慧农业协同创新与关键技术的发展，促进乡村振兴，研讨交流新一代人工智能技术、互联网+乡村振兴战略、大数据与区块链技术、智慧农业技术、智慧农业创新发展与全球化战略、智慧农业协同创新与关键技术、装备以及智能农业产品研发与产业提升。本次研讨会将邀请一批世界顶尖专家和国内外知名学者做重要报告，同时组织参会专家围绕研讨会主题开展学术交流。

大会主题为：智慧农业和乡村振兴。分设以下几个议题：

1. 互联网+乡村振兴
2. 农业人工智能技术
3. 农业区块链技术
4. 农业大数据技术
5. 农业等离子体技术
6. 农产品电商、供应链管理与品质安全保障
7. 智慧养殖业
8. 智慧种植业
9. 智慧农村能源与生物质资源化利用
10. 智能技术与装备
11. 未来无人农场
12. 绿色发展

Announcement and Topics

International Conference on Smart Agriculture Innovation Development (ICSaid2019) will be held in China Agricultural University International Convention Centre from July 19th-23rd, 2019.

This conference will organize open seminars on the new generation of Artificial Intelligence technology, big data and block-chain technology, intelligent agriculture innovation development and globalization strategy, collaborative innovation and key technologies, equipment and intelligent agricultural product development and industry promotion. Which will provide technical support for the special application of artificial intelligence in modern agriculture and the development of intelligent equipment. This conference will invite world leading experts and well-known scholars to give keynote speeches, and exchange ideas around the theme.

The theme of the conference is Artificial Intelligence and rural revitalization. The conference has topics as follows:

1. Internet+ Rural Revitalization
2. AI Technology In Agriculture
3. Agricultural Block-Chain Technology
4. Agricultural Big Data Technology
5. Agricultural Plasma Technology
6. E-Commerce, Supply Chain Management and Quality Safety Guarantee of Agricultural Products
7. Smart Breeding Industry
8. Smart Planting Industry
9. Smart Rural Energy and Biomass Resource Utilization
10. Intelligent Technology and Equipment
11. Future Unmanned Farm
12. Green Development

组织单位

指导单位 :	教育部科学技术司 科技部中国农村技术开发中心 农业农村部规划设计研究院
主办单位 :	中国农业大学
承办单位 :	中国农业大学信息与电气工程学院 中国农业工程学会农业电气化信息化分会
协办单位 :	国家农业信息化工程技术研究中心 现代精细农业系统集成研究教育部重点实验室 农业农村部农业信息获取技术重点实验室 农业农村部农业信息化标准化重点实验室 农业农村部农业灾害遥感重点实验室 农业农村部精准农业技术集成科学试验基地（畜牧业） 农业农村部精准农业技术集成科学试验基地（渔业） 智能技术与装备北京市科普基地
支持单位 :	农业农村部市场经济信息司 农业农村部信息中心 农业农村部对外经济合作中心
赞助单位	三明河龙贡米米业股份有限公司

Organizations

Supervisor:	Science and Technology Department, Ministry of Education China Rural Technology Development Center, Ministry of Science and Technology Chinese Academy of Agricultural Engineering Planning & Design
Host:	China Agricultural University (CAU)
Organizers:	College of Information and Electrical Engineering, CAU Agricultural Electrification and Informatization Branch of Chinese Society of Agricultural Engineering
Co-organizers	National Engineering Research Center for Information Technology in Agriculture Key Laboratory on Modern Precision Agriculture System Integration Research of Ministry of Education, CAU Key Laboratory of Agricultural Information Acquisition Technology, Ministry of Agriculture and Rural Affairs Key Laboratory of Agricultural Informatization and Standardization, Ministry of Agriculture and Rural Affairs Key Laboratory of Remote Sensing for Agri-Hazards, Ministry of Agriculture and Rural Affairs Ministry of Agriculture and Rural Precision Agriculture Technology Integration Science Experiment Base (Animal Husbandry), Ministry of Agriculture and Rural Affairs Ministry of Agriculture and Rural Precision Agriculture Technology Integration Science Experiment Base (fishery), Ministry of Agriculture and Rural Affairs Beijing Science Popularization Base of Intelligent Technology and Equipment
Supporters:	Department of Market and Economic Information, Ministry of Agriculture and Rural Affairs Agricultural and Rural Information Center Ministry of Agriculture and Rural Foreign Economic Cooperation Center, Mara. P.R. China
Sponsor	Sanming HeLong Gongmi Rice Industry Co., Ltd.

大会组委会

大会主席：

汪懋华： 中国农业大学教授、中国工程院院士、国际欧亚科学院院士、中国农业工程学会名誉理事长、中国农业机械学会名誉理事长

大会执行主席：

高万林： 中国农业大学教授、中国农业大学信息与电气工程学院院长

大会秘书处：

秘书长：李振波

秘书：刘红岩、罗智良、陈继威、文娟、张宜军、陶莎、刘珊珊、史银雪、
沈华梅、许朝辉、王晓红

大会邮箱：

cieeeoffice@cau.edu.cn

电话：010-62737712

Organizing Committee

Chairman:

MAOHUA WANG Academician of Chinese Academy of Engineering
 Academician of International Eurasian Academy of Sciences
 Honorary President of CSAE
 Honorary President of CSAM

Executive Chair:

WANLIN GAO Dean of College of Information and Electrical
 Engineering, China Agricultural University

Secretary General

ZHENBO LI Vice-Dean of College of Information and Electrical
 Engineering, China Agricultural University

Secretary

HONGYAN LIU, ZHILIANG LUO, JIWEI CHEN, JUAN WEN, YIJUN ZHANG,
SHA TAO, SHANSHAN LIU, YINXUE SHI, HUAMEI SHEN, ZHAOHUI XU ,
XIAOHONG WANG

Contact

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日程安排

日期	安排		地点
7月19日(星期五) 14:00-20:00	会议注册		中国农业大学国际会议中心 (金码大厦)1层大厅
7月20日(星期六) 全天 开幕式 专家报告	08:30-09:50	开幕式	中国农业大学国际会议中心 (金码大厦)3层报告厅
	09:50-10:10	茶歇、合影	
	10:10-12:10	专家报告	
	12:10-14:00	午餐	金码大厦23层
	14:00-15:40	专家报告	中国农业大学国际会议中心 (金码大厦)3层报告厅
	15:40-16:00	茶歇	
	16:00-18:00	专家报告	
	18:00-20:00	晚餐	金码大厦23层
7月21日(星期日) 全天 专家报告	09:00-10:30	专家报告	中国农业大学国际会议中心 (金码大厦)3层报告厅
	10:30-10:50	茶歇	
	10:50-12:05	专家报告	
	12:05-14:00	午餐	金码大厦23层
	14:00-15:15	专家报告	中国农业大学国际会议中心 (金码大厦)3层报告厅
	15:15-15:35	茶歇	
	15:35-16:35	专家报告	
	16:35-17:10	闭幕式暨河龙贡米 学生优秀论文奖颁奖 典礼	
7月22日(星期一)	17:10-20:00	晚餐	金码大厦23层
	08:30-12:00	技术参观	国家精准农业示范基地
	14:00-16:30	技术参观	信电学院
7月23日(星期二)	离会		

Agenda

Date	Programs		Location
July 19 th (Friday) 14:00-20:00	Conference Registration		Lobby of International Convention Centre ,CAU (Jin Ma Hotel)
July 20 th (Saturday) All Day Opening Ceremony & Keynote Speech	08:30-09:50	Opening Ceremony	Symposium Hall, 3 rd Floor, Jin Ma Hotel
	09:50-10:10	Tea Break, Photo	
	10:10-12:10	Keynote Speech	
	12:10-14:00	Lunch	23 rd Floor, Jin Ma Hotel
	14:00-15:40	Keynote Speech	Symposium Hall, 3 rd Floor, Jin Ma Hotel
	15:40-16:00	Tea Break	
	16:00-18:00	Keynote Speech	
	18:00-20:00	Dinner	23 rd Floor, Jin Ma Hotel
July 21 st (Sunday) All Day Plenary Sessions	09:00-10:30	Plenary Session	Symposium Hall, 3 rd Floor, Jin Ma Hotel
	10:30-10:50	Tea Break	
	10:50-12:05	Plenary Session	
	12:05-14:00	Lunch	23 rd Floor, Jin Ma Hotel
	14:00-15:15	Plenary Session	Symposium Hall, 3 rd Floor, Jin Ma Hotel
	15:15-15:35	Tea Break	
	15:35-16:35	Plenary Session	
	16:35-17:10	Closing and Award Ceremony	
July 22 nd (Monday) All Day	17:10-20:00	Dinner	23 rd Floor, Jin Ma Hotel
	08:30-12:00	Technical Tour	National Precision Agriculture Demonstration Base
	14:00-16:30	Technical Tour	College of Information and Electrical Engineering
	Departure		

2019年7月20日(周六)上午
中国农业大学国际会议中心3层报告厅

时 间	议 程
	开幕式 主持人：高万林，中国农业大学信息与电气工程学院院长 高万林教授致大会欢迎辞
08:30-08:40	高万林教授致大会欢迎辞
08:40-08:50	中国农业大学校领导致辞
08:50-09:10	嘉宾致辞
09:10-09:50	大会主题报告 汪懋华，中国农业大学教授、中国工程院院士、国际欧亚科学院院士、 中国农业工程学会名誉理事长、中国农业机械学会名誉理事长
09:50-10:10	茶歇、合影
	主旨报告 主席：李民赞教授、汪宁教授 1. 土壤中的信号及获取技术 NAIQIAN ZHANG, 教授, 堪萨斯州立大学 2. 有人及无人遥感系统在智慧农业中的应用 CHENGHAI YANG, 教授, 美国农业部农科院南方平原研究中心 3. 智慧传感器助力智能农业和数字化转型管理 NIKOLAOS SYGRIMIS, 教授, 希腊雅典农业大学 4. 创新技术 KRISHNA MOHAN SINGH, 总裁, 美国服务研究与创新研究院 5. 中国智慧农业发展政策与实践 王应宽, 教授/主任, 农业农村部规划设计研究院信息中心 6. 航空喷药模型研发及应用 陈立平, 研究员/主任, 国家农业智能装备工程技术研究中心
12:10-14:00	午餐 地点：金码大厦 23 层餐厅

8:30-12:10 Saturday July 20th, 2019
Symposium Hall, 3rd Floor, International Convention Centre, CAU

Time	Topic
08:30-08:40	Opening Ceremony Chair: Prof. WANLIN GAO, Dean of College of Information and Electrical Engineering, CAU Welcome Speech WANLIN GAO, Professor, Dean of College of Information and Electrical Engineering, CAU
08:40-08:50	Welcome Address from Vice-President of China Agricultural University
08:50-09:10	Guests Speech
09:10-09:50	Academician Speech MAOHUA WANG , Professor , Academician of Chinese Academy of Engineering, Academician of International Eurasian Academy of Sciences, Professor of China Agricultural University, Honorary President of Chinese Society of Agricultural Engineering, Honorary President of Chinese Society for Agricultural Machinery
09:50-10:10	Tea Break, Photograph
10:10-10:30	Keynote Speech Chair : Prof. MINZAN LI , Prof. NING WANG 1. Signals and acquisition techniques in soil NAIQIAN ZHANG, Professor, Kansas State University
10:30-10:50	2. Manned and unmanned remote sensing systems for smart agriculture CHENGHAI YANG, Professor, Southern Plains Agricultural Research Center (SPARC), Agricultural Research Service (ARS), U.S. Department of Agriculture (USDA)
10:50-11:10	3. Smart sensors for intelligent agriculture and the governance of digital transformation NIKOLAOS SYGRIMIS, Professor, Agricultural University of Athens
11:10-11:30	4. Innovating agricultural technology KRISHNA MOHAN SINGH, CEO, Service Research & Innovation Institute(SRII)
11:30-11:50	5. Development of smart agriculture in China: Policy and practice YINGKUAN WANG, Professor/Director, Information Center of the Planning and Design Institute of the Ministry of Agriculture and Rural Affairs
11:50-12:10	6. Development of an aerial spraying model and its application LIPING CHEN, Professor/Dean, National Agricultural Intelligent Equipment Engineering Technology Research Center
12:10-14:00	Lunch (23rd Floor Restaurant, Jinma Hotel)

2019年7月20日(周六)下午

中国农业大学国际会议中心3层报告厅

时 间	议 程
14:00-14:20	专题报告 主席：王应宽教授、NIKOLAOS SYGRIMIS 教授 1. 精细农业发展历程与趋势 MARC VANACHT，总裁，农业经济咨询公司
14:20-14:40	2. 动物识别中的创新技术 汪宁，教授，美国俄克拉何马州立大学
14:40-15:00	3. 富碳农业视野下的国家健康 袁东来，教授，农业农村部信息化标准化重点实验室,富碳农业等离子体技术研究中心
15:00-15:20	4. 百度大脑农业领域赋能与合作 李蛟，百度 AI 应用架构师
15:20-15:40	5. 智慧农业产业发展 王加卓，中交天津航道局有限公司现代农业部总经理
15:40-16:00	茶歇
16:00-16:20	专题报告 主席：陈一飞教授、安东教授 1. 生物质能原循环利用与规模化推广 董仁杰，教授，中国农业大学工学院
16:20-16:40	2. 光谱分析在受控环境作物增产增量中的应用 ABDUL MATEEN KHATTAK，教授，巴基斯坦白沙瓦农业大学
16:40-17:00	3. 太赫兹光谱技术在农产品品质检测中的探索研究 吴静珠，副教授，北京工商大学
17:00-17:20	4. 小麦种肥精细拟合变量施肥控制系统研发 安晓飞，副研究员，国家农业智能装备工程技术研究中心
17:20-17:40	5. 甘蔗作物群体生物量及株数的检测方法初探 李修华，副教授，广西大学
17:40-18:00	6. 基于透射高光谱成像的鸡蛋血点检测研究 冯喆，博士，浙江大学
18:00-20:00	晚餐 地点：金码大厦 23 层餐厅

14:00-18:20 Saturday July 20th, 2019
Symposium Hall, 3rd Floor, International Convention Centre, CAU

Time	Topic
	Plenary Session Chair: Prof. YINGKUAN WANG, Prof. NIKOLAS SYGRIMIS
14:00-14:20	1. The history and trend of fine agriculture development MARC VANACHT, President, AG Business Consultants
14:20-14:40	2. Innovative technologies for animal identification NING WANG, Professor, Oklahoma State University
14:40-15:00	3. National health from the perspective of carbon-rich agriculture DONGLAI YUAN, Professor, Key Laboratory of Information Standardization of Ministry of Agriculture and Rural Affairs of the People's Republic of China, Carbon-rich Agricultural Plasma Technology Research Center
15:00-15:20	4. Baidu brain empowerment to agriculture and cooperation JIAO LI, AI Application Architect , Baidu
15:20-15:40	5. Development of smart agricultural industry JIAZHUO WANG, Manager, Department of Modern Agriculture, CCCC Tianjin Dredging Co., Ltd.
15:40-16:00	Tea Break
	Plenary Session Chair: Prof. YIFEI CHEN, Prof. DONG AN
16:00-16:20	1. Biomass energy recycling and scale promotion RENJIE DONG, Professor, China Agricultural University
16:20-16:40	2. Manipulating light spectrum to enhance the quality and production of crops in controlled environment facilities ABDUL MATEEN KHATTAK, Professor, The University of Agriculture Peshawar Pakistan
16:40-17:00	3. Exploration of terahertz spectroscopy application on agricultural product quality detection JINGZHU WU, Associate Professor, Beijing Technology and Business University
17:00-17:20	4. Development of variable rate fertilization control system based on matching fertilizer line and seed line XIAOFEI AN, Associate Researcher, National Agricultural Intelligent Equipment Engineering Technology Research Center
17:20-17:40	5. Development of chlorophyll content detector based on multi- spectral sensing XIUHUA LI, Associate Professor, Guangxi University
17:40-18:00	6. Detection of blood spots in eggs by hyper-spectral transmittance imaging ZHE FENG, PhD student, Zhejiang University
18:00-20:00	Dinner (23rd Floor Restaurant, Jinma Hotel)

2019年7月21日(周日)上午
中国农业大学国际会议中心3层报告厅

时 间	议 程
09:00-09:20	专题 主席:王忠义教授、NAIQIAN ZHANG 教授 1. 地表径流与水体中微生物污染溯源 QIANG HE , 副教授 , 田纳西大学 2. 基于单目高速相机的平地铲位姿参数动态测量方法 郭胜君 , 博士 , 华南农业大学 3. 基于激光雷达的农田环境点云采集系统设计 季宇寒 , 博士 , 中国农业大学 4. 精量喷雾控制技术研究与试验 李敏 , 硕士 , 山东理工大学 5. 作物叶绿素含量多光谱检测装置研发 邢子正 , 硕士 , 中国农业大学
10:30-10:50	茶 歇
10:50-11:05	专题报告 主席 : 孙瑞志教授、CHENGHAI YANG 教授 1. 基于哨兵三号数据的农田干旱监测 任华忠 , 研究员 , 北京大学遥感与地理信息系统研究所 2. 基于农业气象与卫星遥感的冬小麦倒春寒灾变过程监测与分析 李强子 , 研究员 , 中国科学院空天信息研究院 3. 数字农业技术在新疆棉花种植与管理中的应用实践 吴才聪 , 副教授 , 中国农业大学 4. 基于智能选峰方法的多级质谱糖结构预测 王耀君 , 讲师 , 中国农业大学 5. 农业文本的多标签分类方法 张璐 , 博士 , 中国农业大学
12:05-14:00	午餐 地点 : 金码大厦 23 层餐厅

9:00-12:05 Sunday July 21st, 2019
Symposium Hall, 3rd Floor, International Convention Centre, CAU

Time	Topic
09:00-09:20	Plenary Session Chair: Prof. ZHONGYI WANG, Prof. NAIQIAN ZHANG 1. Data-driven source tracking of microbial contaminants in storm water runoff and receiving streams QIANG HE, Associate Professor, the University of Tennessee
09:20-09:40	2. Dynamic measurement on position and orientation parameters of flat shovel using high speed camera SHENGJUN GUO, PhD student, South China Agricultural University
09:40-10:00	3. Design of point cloud acquisition system for farmland environment based on lidar YUHAN JI, PhD student, China Agricultural University
10:00-10:15	4. Research and experiment on precision spray control technology MIN LI, Postgraduate student, Shandong University of Technology
10:15-10:30	5. Development of chlorophyll content detector based on multi- spectral sensing ZIZHENG XING, Postgraduate student, China Agricultural University
10:30-10:50	Tea Break
10:50-11:05	Plenary Session Chair: Prof. RUIZHI SUN, Prof CHENGHAI YANG 1. Using Sentinel 3 data for agricultural drought monitoring HUAZHONG REN, Professor, Institute of Remote Sensing and Geographic Information System, Peking University
11:05-11:20	2. Monitoring of winter wheat spring freezing disaster process in Huanghuaihai region using meteorological data and remotely sensed images QIANGZI LI, Professor, Aerospace Information Research Institute, Chinese Academy of Sciences
11:20-11:35	3. Application of digital agriculture technology for cotton plantation and management in Xinjiang, PR China CAICONG WU, Associate Professor, China Agricultural University
11:35-11:50	4. Toward automated identification of glycan branching patterns using multistage mass spectrometry with intelligent precursor selection YAOJUN WANG, Lecturer ,China Agricultural University
11:50-12:05	5. A multi-label classification method for agricultural text based on LC-RAKEL LU ZHANG, PhD student, China Agricultural University
12:05-14:00	Lunch (23rd Floor Restaurant, Jinma Hotel)

2019 年 7 月 21 日 (周日) 下午
中国农业大学国际会议中心 3 层报告厅

时 间	议 程
14:00-14:15	专题报告 主席：杜松怀教授、ABDUL MATEEN KHATTAK 教授 1. 关于配电资产效率的评价和提升途径 韩新阳，教高，国网能源研究院 2. 分布式电源与农村配电网电压控制 王立地，教授，沈阳农业大学 3. 新疆南疆农业发展现状与未来现代农业发展需求 陈立平，教授，塔里木大学信息工程学院 4. 基于深度学习和多遥感参数的作物长势监测方法研究 王鹏新，教授，中国农业大学 5. 基于 RGB-D 相机的蔬菜苗群体株高测量方法研究 杨斯，博士，中国农业大学
15:15-15:35	茶 歇
15:35-15:50	专题报告 主席：王鹏新教授、KRISHNA MOHAN SINGH 教授 1. 开源硬件和软件的开发及应用 Tristan Jakob Spilker，首席创新官，德国凯利奥普公司 2. 现代农业先行区现代化经济体系建设路径 杨宜，教授，北京财贸职业学院院长 3. 绿色农业与粮食产权：国际法视角 侯佳儒，教授，中国政法大学绿色发展战略研究院院长 4. 消费升级场景中农产品品牌塑造的思考 房会东，CEO，北京盛世东康科技发展有限公司
16:35-17:10	闭幕式暨河龙贡米优秀论文颁奖典礼
17:10-20:00	晚餐 地点：金码大厦 23 层餐厅

14:00-17:10 Sunday July 21st, 2019
Symposium Hall, 3rd Floor, International Convention Centre, CAU

Time	Topic
14:00-14:15	Plenary Session Chair: Prof. SONGHUI DU , Prof. ABDUL MATEEN KHATTAK 1. Evaluation and improvement of the efficiency of power distribution equipment XINYANG HAN, Professor, National Energy Research Institute
14:15-14:30	2. Distributed power supply and rural distribution network voltage control LIDI WANG ,Professor ,College of Information and Electrical Engineering, Shenyang Agricultural University
14:30-14:45	3. The current situation of agricultural development in southern Xinjiang and the needs of future modern agricultural development LIPING CHEN, Professor, College of Information Engineering, Tarim University
14:45-15:00	4. Developing crop growth monitoring approaches by integrating multiple remotely sensed parameters using deep learning PENGXIN WANG, Professor, College of Information and Electrical Engineering, China Agricultural University
15:00-15:15	5. Research on measuring method of plant height of vegetable seedlings based on RGB-D camera SI YANG, PhD student, China Agricultural University
15:15-15:35	Tea Break
15:35-15:50	Plenary Session Chair: Prof. PENGXIN WANG, Prof. KRISHNA MOHAN SINGH 1. For the development and application of open source hardware and software Tristan Jakob Spilker, Chief Innovation Officer, Kelly Op, Germany
15:50-16:05	2. Modern economic system development route in the Pioneer Area of Modern Agriculture... YI YANG, Professor, Dean, Beijing Institute of Finance and Trade
16:05-16:20	3. Green agriculture and food property rights: a perspective from international law JIARU HOU, Professor, Dean, Institute of Green Development Strategy, China University of Political Science and Law
16:20-16:35	4. Reflections on the branding of agricultural products in the consumption upgrade scenario HUIDONG FANG, CEO, Beijing Shengshi Dongkang Technology Development Co., Ltd
16:35-17:10	Closing Ceremony and Helong Gongmi Student Excellent Paper Award Ceremony
17:10-20:00	Dinner (23rd Floor Restaurant, Jinma Hotel)

会 址

Venue

中国农业大学国际会议中心（金码大厦）

International Convention Centre (Jin Ma Hotel), CAU

地址：中国北京市海淀区清华东路 17 号

Address: NO. 17 Qinghua East Road, Haidian District, Beijing 100083, P.R. China



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