



2020年江苏省研究生

“互联网+”与智能农业学术创新论坛



### 一、论坛介绍

2020年11月27-29日在江苏省镇江市召开的江苏省研究生“互联网+”与智能农业学术创新论坛是一项省级学术活动。论坛以“互联网+”、智能农业、智能应用为主题，旨在利用移动互联网、人工智能、大数据、云计算、物联网、区块链、5G等新一代信息技术与农业融合，探讨基于互联网+与人工智能平台的现代农业新模式，为计算机类、农业工程、食品科学与工程、管理科学与工程学科及相关学科的研究生提供发表学术见解和探讨学术前沿问题的机会。

此次会议共收到论文65篇，论文投稿高校覆盖了中国农业科学院、中国科学院深圳先进技术研究院、北京航空航天大学、东南大学、电子科技大学、澳门科技大学、河海大学、华南农业大学、中国海洋大学、中国矿业大学、南京邮电大学、江苏大学、上海海事大学、河南大学、河南工业大学、南京审计大学、江苏第二师范大学、开封大学、内江师范大学、三江学院、中国建筑第七工程局有限公司等20余所高校院所和公司。论坛于2020年11月19日在江苏大学组织了投稿论文评审，评审专家来自南京大学、南京农业大学、江苏大学等院所，研究领域涉及人工智能、计算机网络、农业科学、农业机械等相关领域。经遴选与评审，本次论坛共评选出一等奖论文4篇、二等奖论文8篇、三等奖论文16篇、优胜奖论文14篇。2020年11月20日，会议承办方邀请了《通信学报》、《江苏大学学报自然科学版》的杂志社领导与编委、国际SCI期刊编委等组织了优秀论文推荐工作。在获奖论文的基础上，经期刊和评审专家遴选，拟推荐论文16篇，其中《通信学报》0篇，《江苏大学学报》（自然科学版）7篇，SCI源期刊9篇。

### 二、获奖清单

题目	作者	单位	获奖等级
面向鲜食葡萄无损采运的果穗系统振碰复合动力学建模	阳开雨; 刘继展	江苏大学农业工程学院	一等奖
An Efficient Byzantine Fault-tolerant Consensus Mechanism Based on Threshold Signature	Wenxuan Jiang; Liquan Chen; Yu Wang; Sijie Qian	School of Cyber Science and Engineering, Southeast University; School of Cyber Science and Engineering, Purple Mountain Laboratories for Network and Communication Security, Southeast University	一等奖
A Quantitative Analysis Method of Soybean Leaf Based on Key Point Detection	Ye Zhu; Qing Zhong; Cunyi Yang; Dong Wang; Ximing Li; Chongyu Chen; Yuefang Gao	College of Mathematics and Informatics, South China Agricultural University; College of Agronomy, South China Agricultural University; DarkMatter AI Research DMIA (Guangzhou) Co., Ltd	一等奖
Anonymous Information Transmission Method Based on Dual Cloud Structure	Fan Wen; Hao Shen-Tu; Liangmin Wang	School of Computer Science and Communication Engineering, Jiangsu University	一等奖
融合微博热点分析和LSTM模型的网络舆情预测方法	刘定一; 沈阳阳; 詹天明; 刘亚军; 应敏	三江学院计算机科学与工程学院; 南京审计大学信息工程学院; 东南大学计算机科学与工程学院	二等奖
基于模糊神经网络的茶园拖拉机远程故障诊断系统	马志怡; 梁军	江苏大学汽车与交通工程学院	二等奖
A Direct Anonymous Attestation Scheme Based on Mimic Defense Mechanism	Chen Yu; Liquan Chen; Tianyu Lu	School of Cyber Science and Engineering, Southeast University	二等奖
Hypergraph Induced Graph Convolutional Network for Multi-label Image Recognition	Yaqi Tan; Zhongchen Ma; Yongzhao Zhan; Qirong Mao	School of Computer Science and Communication Engineering, Jiangsu University	二等奖
COVID-19 Tracer: Towards Low-cost Passive Close-contacts Searching	Xu Yang; Peihao Li; Yuqing Yin; Mingzhi Pang; Qiang Niu; Pengpeng Chen	China University of Mining and Technology	二等奖
Monaural Speech Separation Joint with Speaker Recognition: A Modeling Approach Based on the Fusion of Local and Global Information	Shuangqing Qian; Jingjing Chen; Heping Song; Qirong Mao	School of Computer Science and Communication Engineering, Jiangsu University; Jiangsu Engineering Research Center of Big Data Ubiquitous Perception and Intelligent Agriculture Applications	二等奖
A Novel Structure and Route Algorithm for Hybrid DCN Network Based on ExCCC-DCN	Yujie Zhang; Zhijie Han; Yunfei Song	School of Computer Science, Nanjing University of Posts and Telecommunications; School of Computer and Information Engineering, Henan University; System Engineering Institute, Macau University of Science and Technology	二等奖
RFWM: Wheat Moisture Detection Based on RFID	Shifeng Li; Pengming Hu; Weidong Yang	College of Information Science and Technology, Henan University of Technology	二等奖
江苏现代农业物流系统动力学建模优化研究	安勇峰; 何美玲; 蒲俊	江苏大学汽车与交通工程学院	三等奖
江苏农产品冷链物流网络构建研究	蒲俊; 安勇峰; 何美玲	江苏大学汽车与交通工程学院	三等奖
赖氨酸发酵过程关键变量多模型软测量建模	王星宇; 王博	江苏大学电气工程学院	三等奖
A Comparative Survey of Connectivity Models in Vehicular Networks	Mingzhou Liang; Ben Huang; Zhenguo Hou; Jinxiu Zhu; Xiaofeng Liu; Xin Su	College of IOT Engineering, Hohai University; China Construction Seventh Engineering Division CoRP	三等奖

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Formal Analysis and Verification of Industrial Control System Security via Timed Automata	Guoqing Wang; Lei Zhuang; Taotao Liu; Shuxia Li; Sijin Yang; Julong Lan	Advanced Network and High Reliable Software Laboratory, Zhengzhou University; School of Information Engineering, Zhengzhou University; China National Digital Switching System Engineering & Technological R&D Center	三等奖
Blockchain Enabled Secure Energy Trading Based on Smart Contract Design	Fengyi Yang; Ruomeng Sun; Yiyang Ni; Qin Wang; Haitao Zhao	Nanjing University of Posts and Telecommunications; Jiangsu Second Normal University	三等奖
Cloud Task Scheduling Based on Policy Gradient Algorithm in Heterogeneous Cloud Data Center for Energy Consumption Optimization	CuiHua He; YongQuan Yang; BoWei Hong	Department of Computer Science and technology, Ocean University of China	三等奖
Classification System Study of Soybean Leaf Disease Based on Deep Learning	Fang Wang; Yue Liu; Dandan Cui	Department of Information Engineering, KaiFeng University	三等奖
Temporal Action Detection Based on Temporal Deformable Proposal Generation	Liting Yan; Yongzhao Zhan; Huifen Xia	School of Computer Science and Communication Engineering, Jiangsu University	三等奖
Research Progress of Internet of Things Security Application Based on Blockchain and Edge Computing	Wanying Feng; Qin Wang; Yiyang Ni	Nanjing University of Posts and Telecommunications	三等奖
Optimal Control-based Computing Task Scheduling in Software-Defined Vehicular Edge Networks	Ershuai Peng; Zhiyuan Li	Department of Cybersecurity, Jiangsu University	三等奖
ESDMDroid : Ensuring Sample Diversity to Improve Android Malware Detection Based on Permissions	Hao Fang; Huijuan Zhu	School of Computer Science and Communication Engineering, Jiangsu University	三等奖
Sentiment Analysis of Agricultural Product E-Commerce Review Data Based on Deep Learning	Zikang He; Yong Yang; Guofeng Yang; Xinyu Zhang	Agricultural Information Research Institute; Chinese Academy of Agricultural Sciences	三等奖
A Blockchain-based Privacy Preserving Scheme for Vehicular Trust Management Systems	Yuli Yao; Wendong Chen; Xiao Chen; Jie Ding; Senshan Pan	School of Computer Science and Communication Engineering, Jiangsu University; School of Informatics, University of Edinburgh; State Key Laboratory of Software Development Environment, Beihang University; China Institute of FTZ Supply Chain, Shanghai Maritime University	三等奖
Multi-Attribute Top-k Query Processing Leveraging Caching Mechanism in IoT Sensing Networks	Lizhi Zhang; Liangmin Wang	School of Computer Science and Communication Engineering, Jiangsu University	三等奖
Fast 3D Point Cloud Segmentation Using Deep Neural Network	Yunbo Rao; Menghan Zhang; Zhanglin Cheng; Junmin Xue; Jiansu Pu; Zairong Wang	School of Information and Software Engineering, University of Electronic Science and Technology of China; Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences; Neijiang Normal University	三等奖
H高校主导下农机装备协同创新专利联盟运行模式研究	苏佳璐; 李明星; 高雅; 蒋硕	江苏大学管理学院	优胜奖
语音技术在农业智能化中的应用展望	侯广宇; 刘继展	江苏大学农业工程学院	优胜奖
Exploration of Pumping Station Group Based on 5G	Wenhao Feng; Wenfei Qian	National Research Center of Pumps, Jiangsu University	优胜奖
Data Sharing Strategy Based on PBFT Algorithm in VANETs	Xue Du; Xiaoming Jiang; Hao Wu; Jingru Fang; Gen Wang; Cong Du	School of Computer Science and Communication Engineering, Jiangsu University	优胜奖
Waste-to-Resource Strategy to Fabricate Wearable Janus Membrane Derived from Corn Bracts for Personal Thermal Management	Bin Gu; Tao Zhang; Fengxian Qiu	School of Chemistry and Chemical Engineering, Jiangsu University; Institute of Green Chemistry and Chemical Technology, Jiangsu University	优胜奖
Video Object Segmentation Based on Location and RoIAlign in Weight Modulated Multi-Scale Network	Wenqing Luo; Yongzhao Zhan; Qianting Wu	School of Computer Science and Communication Engineering, Jiangsu University	优胜奖
Learning Device-Invariant and Location-Invariant Embedding for Speaker Verification Using Adversarial Multi-task Training	Youcai Qin; Qirong Mao; Zhongchen Ma; Jingjing Chen	School of Computer Science and Communication Engineering, Jiangsu University	优胜奖
Blockchain Anonymous Trading System Based on Multi-Hop Payment	Weiwei Zhang; Zhiyuan Li; Ershuai Peng	Department of Cybersecurity, Jiansu University	优胜奖
Time Domain Speech Enhancement Using SNR Prediction and Robust Speaker Classification	Jigang Ren; Qirong Mao; Hongjie Jia; Jingjing Chen	School of Computer Science and Communication Engineering, Jiangsu University	优胜奖
MFENet: An 1D CNN-Based Model for Automatic Feature Extraction and Fusion	Yang Li; Huijuan Zhu	School of Computer Science and Communication Engineering, Jiangsu University	优胜奖
Data Sharing for Multiple Groups with Privacy Preservation in the Cloud	Liting Rao; Qingqing Xie; Hui Zhao	School of Computer Science and Communication Engineering, Jiangsu University	优胜奖
Inter-domain Routing Scheme Based on Secure Multi-Party Computation Under SDN Architecture	Xiaoling Ni; Hui Zhao	School of Computer Science and Communication Engineering, Jiangsu University	优胜奖
Hiding Historical Data on Permissionless Blockchain	Zihan Wu	School of Computer Science and Communication Engineering, Jiangsu University	优胜奖
Spatial and Channel-wise Attention in Multi-modality Feature Fusion for Multispectral Pedestrian Detection	Hao Wei; Xin Zuo; Jifeng Shen; Wankou Yang	School of Electronic and Informatics Engineering, Jiangsu University; School of Computer Science and Engineering, Jiangsu University of Science and Technology; School of Automation, Southeast University	优胜奖