



2022年第27期总348期

农业与资源环境信息工程专题

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▶ 前沿资讯

1 . Asia-Pacific nations on accelerated push for rural digitalization to achieve SDGs (亚太国家加速推动农村数字化以实现可持续发展目标)

简介: 联合国粮食及农业组织（粮农组织）今天围绕“可持续发展目标”举行为期一天的主题活动，与会的政府代表一致认为，加快亚太区域农村社区的数字化进程对于重拾动力促进实现可持续发展目标至关重要。200多名与会者以线上方式出席了“粮农组织数字乡村知识共享和对话会”。作为区域层面的后续举措，活动旨在就亚太区域推进城镇和农村地区采用数字技术分享知识经验。此次活动旨在为粮农组织总部于2021年1月启动的“数字千村”倡议提供支持。屈总干事在会上强调，推进数字乡村工作应三管齐下：面向农业生产：数字农业侧重于通过使用信息通信技术以及相关数字解决方案提高生产力；面向农民生活：“农民数字服务”侧重于改善农民对各类社会和经济服务的获取情况，包括金融服务、社会保障和就业；面向乡村：通过数字化服务加强卫生、教育、就业、福利以及包括生态旅游和农业旅游在内的旅游业发展等公共服务，支持农村转型。

来源: FAO

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全文链接:http://agri.ckcest.cn/file1/M00/10/08/Csgk0GK9UfiAaYxVAAI4Vc_yZ1g337.pdf

2 . Agtech's Next Frontier (农业技术下一代前沿)

简介: ARPA-E recently welcomed Dr. Nick Goeser as the federal Tech-to-Market (T2M) advisor for our agriculture technology portfolio. We sat down with Dr. Goeser ahead of ARPA-E's upcoming carbon farming workshop to discuss his perspectives on the current state of domestic agriculture, and how ARPA-E can play a role in transforming the industry to better meet the needs of our society.

来源: ARPA-E

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3 . NASA, Partners Offer Global View of Environmental Changes (NASA与合作伙伴共同提供环境变化的全球视角)

简介: Continuing the collaboration that produced the COVID-19 Earth Observing Dashboard in 2020, NASA and its international partners in Europe and Japan have combined the collective scientific power of their Earth-observing satellite data in expanding the online resource to document a broad array of planet-wide changes in the environment and human society. The expanded dashboard from NASA, ESA (European Space Agency), and JAXA (Japan Aerospace Exploration Agency), includes six new focus areas— atmosphere, agriculture, biomass, water and ocean, cryosphere, and the economy—that allow users to drill down into data-driven stories and interactively explore relevant datasets. “At NASA, accessibility to data is a top priority,” said Karen St. Germain, NASA Earth Science Division director. “With our partners at ESA and JAXA, this is another important step to getting the latest information to the public about our changing planet, in an accessible and convenient way, which can inform decisions and planning for communities around the world.” The

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dashboard provides an easy-to-use resource for the public scientists, decision-makers, and people who may not be familiar with satellite or Earth observation data. It offers a precise, objective, and comprehensive view of our planet. Using accurate remote sensing observations, the dashboard shows the changes occurring in Earth's air, land, and water and their effects on human activities. Users can explore countries and regions around the world to see how the indicators in specific locations change over time.

来源: NASA

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全文链接:<http://agri.ckcest.cn/file1/M00/10/08/Csgk0GK9U7WAJiNXAAKeWrIpedg879.pdf>

会议论文

1 . Research on the Application of Computer Big Data Technology in Satellite Remote Sensing Map Cartography and Geographic Information (计算机大数据技术在卫星遥感地图制图和地理信息中的应用研究)

简介: This article theoretically studies the process of shadow generation in remote sensing images, and obtains the quantitative relationship between the gray value of the same pixel point when there is no shadow and when there is shadow. The article uses the shadow detection and removal method of RGB color space to detect and remove the shadow of the moving target. We use mathematical morphology to complete the trimming and reconstruction of the target area. The experimental results show the effectiveness of this method.

来源: 2022 IEEE 2nd International Conference on Power, Electronics and Computer Applications (ICPECA)

发布日期:2022-01-22

全文链接:<http://agri.ckcest.cn/file1/M00/03/36/Csgk0YcUB06AbJYUAAyIa0afqS8290.pdf>

2 . Blockchain Technology in Smart Agriculture Environment: A PLS-SEM (智能农业环境中的区块链技术: PLS-SEM)

简介: The agriculture industry is being transformed by disruptive technologies, which is resulting in a rise in the Smart agriculture environment. In developing economies, blockchain is required to progress the traditional agriculture system, just as it is in developed countries. The purpose of this study is to look at the major constructs that influences an individual decision to adopt blockchain for agriculture firms. The proposed model uses structural equation modelling and is based on Unified theory of acceptance and use of technology (UTAUT). All factors were shown to have significant impact during the blockchain adoption expect (social influence on behavioral intention), according to the findings from a study of 917 specialists working in the Pakistan agriculture firms. The study findings are used to examine the managerial consequences, albeit there are some limitations.

来源: 2021 International Conference on Electronic Information Technology and Smart Agriculture (ICEITSA)

发布日期:2021-12-21

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