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Title: Geological disaters early warning and forecast information-releasing system: a new generation of releasing system based on ANN and GIS

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关键词: 人工神经网络; NEW框架; 滑坡; 泥石流; WebGIS; 预警预报; 网络发布

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摘要: 针对现有地质灾害预测预报信息发布系统所存在的不足,提出了基于WebGIS的新一代突发性地质灾害预警信息网络发布框架(NEW),它由灾害预测系统、WebGIS系统和监测及地质灾害信息获取系统³部分组成.研制了浙江省滑坡地质灾害预报预警信息网络发布系统(LAPS_IMS).实际测试和应用表明:LAPS_IMS通过发布现势的、准确的和直观的灾情信息,实现了多部门信息资源的共享,提高了公众参与度,为政府决策提供了强有力的技术支持;同时,证明了NEW框架的正确性、有效性和合理性.

Abstract: Traditional issuing system for early-warning and forecast information on landslide hazards has insufficiency.A new generation of frame issung early-warning information of landslide hazards based on WebGIS(NEW) was introduced in this paper.It is composed of hazard prediction system,WebGIS system and geological hazard information acquisition system.Based on NEW frame,landslide hazards prediction and early-warning system for Zhejiang Province(LAPS_IMS) were developed.Application of the system validates the accuracy,validity and rationality of NEW,and the system realizes multi-department inform ation resource sharing,enhances the public participating degree and provides the powerful technical support to government decision-making.

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