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## 基于GIS的北京市动物疫病应急指挥平台设计与应用

### Design and application of emergency command platform for animal epidemic disease in Beijing based on GIS

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**中文关键词:** [地理信息系统 \(GIS\)](#) [设计](#) [应用](#) [动物疫病](#) [应急指挥平台](#) [综合决策模型](#) [业务流程模式](#) [Flex](#)

**英文关键词:** [geographic information systems](#) [design](#) [applications](#) [animal epidemic disease](#) [emergency command platform](#) [comprehensive decision-making model](#) [operation flow pattern](#) [Flex](#)

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**中文摘要:**

针对重大疫病应急防控信息化管理的需要, 创建了北京市动物疫病应急指挥平台。完成了平台的总体设计、技术体系结构、功能及数据库设计与系统研发。研制了动物疫病应急处置业务流程模式及逻辑框架、疫病防控综合决策模型等关键技术。提出了Flex控件与ArcObjects组件的无缝式捆绑技术在系统中的应用。解决了疫源分析、划定疫点、疫区、受威胁区、路口封锁、疫情监测、无害化处理、消毒、扑杀、紧急免疫及解除封锁等一系列应急处置中的关键问题。实现了北京市重大动物疫病信息化、一体化的应急指挥。为全面判断防控形势与科学决策提供及时、准确的信息, 为北京市重大动物疫病应急指挥提供了快速而有力的支撑作用。

**英文摘要:**

In the light of the characteristics of information management of emergency prevention and control for severe epidemic disease, an emergency commanding platform for animal disease in Beijing was established, including overall layout, structure of technical system, function, database, and design and exploitation. In the paper, a series of critical techniques including operation flow pattern, logical frame for emergency disposal, and comprehensive decision-making model were researched. Application of seamless bonding technology for Flex controls and ArcObjects components in the system was proposed; some key issues including analysis of epidemic focus, determination of epidemic spot, epidemic area, threatened area, intersection blocking, epidemic monitoring, harmless disposal, disinfection, slaughter, emergency immunization and lifting of the blockade were resolved. Based on the platform, the aim of information and integration of emergency command for major animal disease in Beijing was achieved. The platform can provide timely and accurate information for comprehensive judgment of actual prevention and control situation and scientific decision-making, as well as fast and great support to emergency command for severe animal epidemic disease for Beijing.

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