简报

基于AE的气象要素检索与图形化显示模块的设计与实现

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摘要　　以中国气象局国家气象中心项目"智能化服务产品交互系统"为依托，采用ArcGIS Engine Developer Kit 9.2为软件开发的核心，以C#为编程语言，以Oracle为数据库依托，设计开发了基于C/S模式的气象要素检索与图形化显示模块。模块通过外部配置信息和MicroSoft .Net Framework中反射机制的结合，在一定程度上克服了气象要素检索与图形化显示不能满足用户动态需求的不足，实现了气象要素检索结果图形化自动绘制的功能，从而为各级政府的决策服务提供科学参考依据。

关键词　　AE　气象要素检索　图形化显示；设计与实现

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Design and realization of meteorological elements retrieval and graphics display module based on ArcGIS engine

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Abstract　This study is sponsored by the project "intelligent interactive service system" from national climate center (NMC) of China Meteorological Administration (CMA). Using ArcGIS Engine (AE) developer kit 9.2 as the core development software and C# as programming language as well as Oracle as database, the meteorological elements retrieval and graphics display modules based on C/S model were designed and developed. To a certain extent, the module overcomes the disadvantage that the meteorological elements retrieval and graphic display does not satisfy users' dynamic needs by the combination of external configuration information and reflection mechanisms in Microsoft .NET framework. The module realizes the function drawing the graphics result of meteorological elements retrieval automatically, which can provide the scientific basis for the decision-making service of government departments.

Key words　ArcGIS Engine (AE)　Meteorological elements retrieval　Graphics display　Design and realization

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