盐城黄海湿地鸟类监管与保护系统设计

Functional Design of Bird Monitoring and Protection System for Yancheng coastal Wetland

陈昊

Hao Chen

（苏州科技大学 地理科学与测绘工程学院,江苏 苏州 215009）

（School of Geographic Science and Surveying and Mapping Engineering, Suzhou University of Science and Technology, Suzhou, Jiangsu 215009）

摘 要: 东亚—澳大利西亚候鸟迁徙路线是全球受威胁最严重的迁飞路线，盐城黄海湿地作为该迁徙路线的关键枢纽，对该地区鸟类进行合理的监管和保护，对于促进世界鸟类保护以及生物多样性都有极为重要的意义。针对该地区鸟种数量庞多，生境需求多样等特性。本系统采用B/S架构,结合GIS空间分析，空间地理数据库与关系型MySQL数据库，Web和人工智能等技术,设计盐城黄海湿地鸟类监管与保护系统。并就鸟类数据管理，专题地图输出，鸟类识别,生境监测等给出具体的解决方案。

Abstract: The East Asia-Australasia migratory route is the most threatened migratory route in the world, and the Yancheng Yellow Sea Wetland, as a key hub of the migratory route, is of great significance to the conservation of the world's birds as well as biodiversity through the reasonable regulation and protection of the birds in the area. The system adopts a B/S architecture to address the characteristics of this area, such as the large number of bird species and the diverse habitat needs. This system adopts B/S architecture, combining GIS spatial analysis, spatial geographic database and relational MySQL database, Web and artificial intelligence technologies to design the Yancheng Yellow Sea Wetland Bird Supervision and Protection System. It also provides specific solutions for bird data management, thematic map output, bird identification, migration route prediction, habitat monitoring and so on.

关键词： 监管 保护 B/S GIS空间分析 数据库 人工智能

Keywords: regulation, protection, B/S, GIS, spatial analysis, database, artificial intelligence