Ferdinando Urbano · Francesca Cagnacci
Editors

Spatial Database for GPS Wildlife Tracking Data

A Practical Guide to Creating a Data Management System with PostgreSQL/PostGIS and R

Foreword by Ran Nathan

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Spatial Database for GPS Wildlife Tracking Data

A Practical Guide to Creating a Data Management System with PostgreSQL/PostGIS and R

- Teaches to manage and process GPS wildlife tracking data in a standardized manner
- Broadens the perspective on the potentialities offered by GPS wildlife tracking data and related biological and environmental information
- Allow to make the best of bio-telemetry data to answer prominent and relevant ecological questions
- Saves time and money through proposing highly efficient data management and analyses procedures with open source software

This book guides animal ecologists, biologists and wildlife and data managers through a step-by-step procedure to build their own advanced software platforms to manage and process wildlife tracking data. This unique, problem-solving-oriented guide focuses on how to extract the most from GPS animal tracking data, while preventing error propagation and optimizing analysis performance. Based on the open source PostgreSQL/PostGIS spatial database, the software platform will allow researchers and managers to integrate and harmonize GPS tracking data together with animal characteristics, environmental data sets, including remote sensing image time series, and other bio-logged data, such as acceleration data. Moreover, the book shows how the powerful R statistical environment can be integrated into the software platform, either connecting the database with R, or embedding the same tools in the database through the PostgreSQL extension Pl/R. The client/server architecture allows users to remotely connect a number of software applications that can be used as a database front end, including GIS software and WebGIS.

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