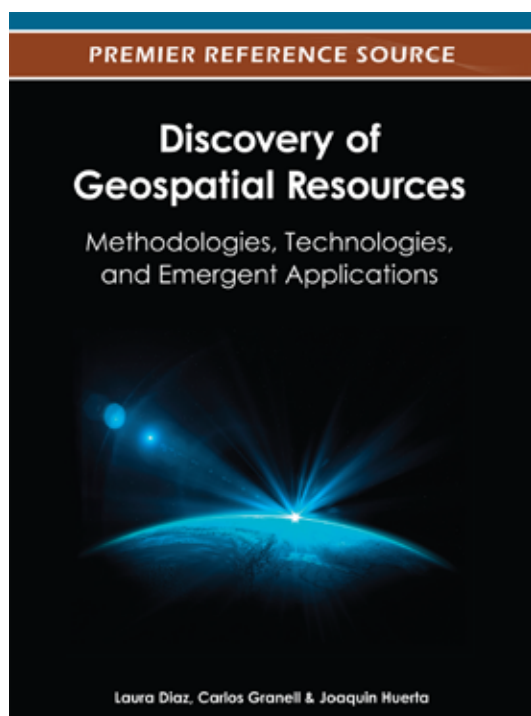


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Discovery of Geospatial Resources: Methodologies, Technologies, and Emergent Applications



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Information Systems built using standard-based distributed services have become the default computing paradigm adopted by the geospatial community to build Geospatial Information Infrastructures. There are many aspects to consider in order to improve the discovery of geospatial resources. The efficiency of discovery is determinant to deploy successful applications in distributed environments where standard-based components allow users to share and reuse resources more effectively.

Discovery of Geospatial Resources: Methodologies, Technologies, and Emergent Applications aims to provide relevant theoretical frameworks and the latest empirical research finding. This reference is written for professionals who want to improve the understanding of geospatial discovery methodologies and technologies, as well as techniques to design and deploy geospatial resources in Information Infrastructures.

Topics Covered:

- Automatic Extraction of metadata
- Automatic Registration and Publication of Geospatial Resources
- Classifications and Indexing of Geospatial Resources
- Geospatial Information Infrastructure
- Geospatial Metadata for Data and Services
- Geospatial Web Service Registry and Discovery
- Query Languages
- Semantics, Formats, Tagging for Geospatial Resources Discovery
- User Interfaces for Geospatial Resources Discovery

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Laura Díaz graduated in Computer Engineering (2000) from the Universitat de València and obtained her MSc in Intelligent Systems (2008) and the doctoral degree in Geospatial Science (2010) from Universitat Jaume I of Castellón, where she is currently a Research Associate. She has participated in R&D projects at the Institute of Robotics at the Universitat de València and GIS companies such as Geodan (The Netherlands) and Iver TI (Spain). Furthermore, she participated in research stages at Institute of GeoInformatics (University of Münster) and Institute of Environment and Sustainability (Joint Research Centre). Her main research interests are in the field of geospatial information infrastructures and user generated content, in particular she investigates novel approaches for improving geospatial content integration and publication, distributed geoprocessing, and service interoperability.

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Coetzee Serena (University of Pretoria, South Africa.)
Kourie Derrick G (University of Pretoria, South Africa.)

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Luaces Miguel R. (University of A Coruña, Spain)
Seco Diego (University of A Coruña, Spain)

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Ayats Victor Pascual (Spatial Data Infrastructure of Catalonia (IDEC), Spain)

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