AgroPortal: A Proposition for Ontology-Based Services in the Agronomic Domain
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AgroPortal

a proposition for ontology-based services in the agronomic domain

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The challenge

Biologists have adopted ontologies (knowledge representation, annotation, data integration)... But ontologies are: spread out, in different formats, of different size, with different structures.

➔ How to enable straightforward use of agronomic ontologies?
➔ Develop and support a reference ontology repository for the agronomic domain

http://agroportal.lirmm.fr

Reuse NCBO technology

NCBO Biportal : a web repository for biomedical ontologies:
• Users can publish, download, browse, search, comment, align ontologies and use them for annotations both online and via a web services API.
  • http://bioportal.bioontology.org
• Domain independent & open source
• Fully semantic web compliant
• Focus on biomedicine
• Many plant/agronomy related ontologies are not covered

Driving Uses-Cases

• IBC Rice Genomics & AgroLD project (http://agrolld.org) : RDF data integrated from a variety of plant resources and ontologies
• RDA Wheat Data Interoperability working group: common framework for describing, representing, linking and publishing wheat data with respect to open standards
  • INRA Linked Open Vocabularies, (http://lovinra.inra.fr): publish vocabularies produced or co-produced by INRA scientists and foster their reuse beyond the original researchers
  • The Crop Ontology (www.cropontology.org): publishes ontologies required for describing crop germplasm, traits and evaluation trials