Using An Enterprise Research Management System to Maintain Accurate and Up-to-date Scholarly Data For Campus Re-use

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VIVO Conference 2014

Network Science Researchers at Indiana University

This VIVO instance provides information on faculty that perform research on networks and complex systems in the social and behavioral sciences, in natural sciences such as biology or physics, but also on Internet technologies.

Browse faculty and their departments or check out relevant

- Publications
- Grants
- Courses

to find expertise, collaborators, or mentors.

http://vivo-netsci.cns.iu.edu
Network Science Researchers at Indiana University

The site was created to help
• New faculty to get in contact with relevant researchers.
• Faculty and policy makers to pool teams in response to funding solicitations.
• Faculty to coordinate research efforts collaborations using existing funding/resources.
• Faculty to coordinate teaching.
• Students identify relevant courses, potential advisors, funding.
• Organize the Monday talk series on Networks and Complex Systems.
• Arrange research meetings for visitors with relevant faculty/students
• Communicate networks and complex systems research at IU via interlinked web pages to the world.

We welcome all comments and suggestions.
http://vivo-netsci.cns.iu.edu

CONVERIS/VIVO Integration Pilot
CONVERIS/VIVO Integration Pilot

• Goals of the pilot:
  – Enable sharing of data in VIVO compliant format
  – Facilitate the creation, augmentation, and maintenance of VIVO profiles
  – Use Web of Science Core Collection data to build publication lists

• Web of Science is a curated collection of the world’s most influential journals (12,500+) in the sciences, social sciences, and arts & humanities, plus tens of thousands of scholarly conferences and books.

What Is CONVERIS?

- Web of Science, Pubmed, etc.
- IR, HR, finance, etc.
- VIVO, etc.
Minimizing The Administrative Burden On Researchers

CONVERIS is a research information and faculty activity reporting system that:

• enables you to centralize all faculty activities in one place (publications, grants, teaching, service)
• syncs with your existing data sources: “collect data once, use it many times”
• creates CVs for faculty in standard or custom templates
• can be highly customized to support evaluation workflows at your university
• offers a public portal to showcase your accomplishments to the world
• includes ad hoc reporting on all data in the system

CONVERIS/VIVO Integration Pilot

To learn more, please attend our webinar:
Converis and VIVO integration webinar
Wednesday, August 13, 2014
11:00 am, Eastern Daylight Time
Register at: http://go.thomsonreuters.com/converis
CONVERIS/VIVO Integration Pilot

- 101 researcher profiles
- 1,461 Web of Science records from 2008-2014

![Bar chart showing publications per year from 2008 to 2014.]

CONVERIS/VIVO Integration Pilot

![Pie chart showing publications per type.]

CONVERIS/VIVO Integration Pilot

Article list by author with times cited

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<tr>
<th>Last name: Ahn</th>
<th>Title</th>
<th>Journal name</th>
<th>Publication year</th>
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<td>Delayed information cascades in Flickr: Measurement, analysis, and modeling</td>
<td>COMPUTER NETWORKS</td>
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<td>Flavor network and the principles of food pairing</td>
<td>Scientific Reports</td>
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<td>Metabolic Network Analysis-Based Identification of Antimicrobial Drug Targets in Category A Bacterium by Agents</td>
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<td>Overlapping community detection in complex networks using symmetric binary matrix factorization</td>
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<td>Vitality Prediction and Community Structure in Social Networks</td>
<td>Scientific Reports</td>
<td>2013</td>
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CONVERIS/VIVO Integration Pilot

Publications per author
CONVERIS/VIVO Integration Pilot

Example profile: before pilot

CONVERIS/VIVO Integration Pilot

Example profile: after pilot
Minimizing The Administrative Burden On Researchers
A system is only as good as the data in it

Populating publications into CONVERIS is simple:

- Thomson Reuters can pre-populate journal article metadata from Web of Science Core Collection into your faculty members’ profiles
- Web of Science Core Collection, as well as other sources such as PubMed, can be searched through CONVERIS to further manage publication lists
- “Search profiles” alert faculty when there are new publications to add to their profiles, making maintenance easy
- Web of Science Core Collection also adds “times cited” counts to profiles to track research impact

CONVERIS is a JavaEE application following the typical JavaEE 3-tier-architecture with a modular design of user interface, business logic (i.e. functionality) and data management (i.e. data model)
1. Create Dataflow via Drag & Drop

2. CONVERIS Plugin allows CONVERIS operations

3. Integrate Dataflows in CONVERIS

Which database do we need to connect to?

4. Create Timer for Integrations based on Dataflows

CONVERIS in International Researcher Network
http://nrn.cns.iu.edu
Connectors
Currently, CONVERIS offers connectors to around 50 different systems. A brief overview of the most common ones:

- Login servers (e.g. Shibboleth, Kerberos, LDAP, CAS, often with Single Sign On (SSO))
- HR systems (PeopleSoft, Resource Link, SAP-HR)
- Finance systems (e.g. SAP, PeopleSoft, Agresso, Oracle, Raindance, MACH)
- Student record systems (e.g. Banner, PeopleSoft, SITS, Ladok, AIS)
- Institutional repositories (DSpace, EPrints, Fedora, Digital Commons)
- Content Management Systems (through CONVERIS web services in order to integrate existing information from CONVERIS into existing web pages)
- External publication databases (e.g. WoS, Scopus, PubMed, ORCID)
- VIVO- build and maintain researchers profiles for networking sites like VIVO
Engagement in Industry Standardizations

Converis

Standard activities built into Converis

Unify use of upper/lower case in titles?

You can also add your own activity types to the data model.
Thank you

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