

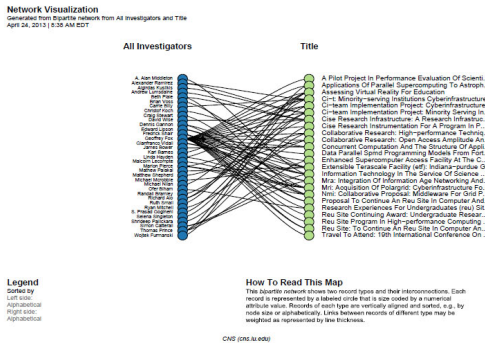
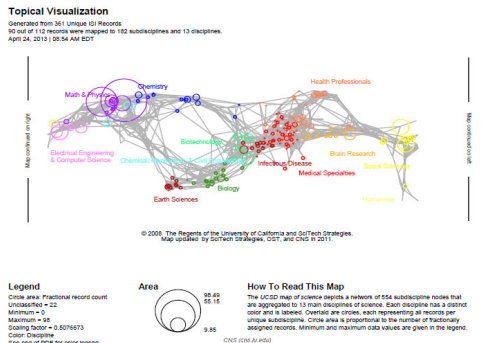
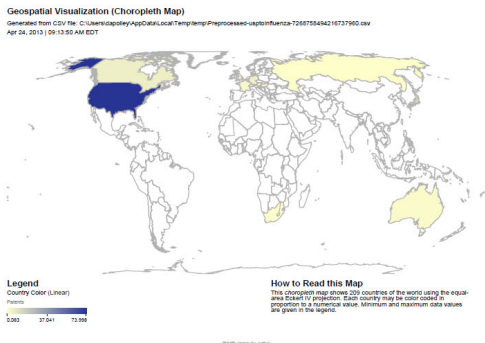
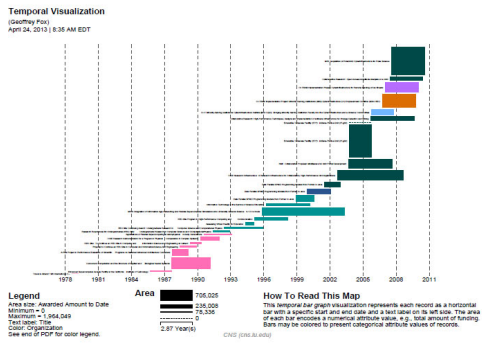
1 Introduction

The Science of Science (Sci2) Tool (<http://cns.iu.indiana.edu>) is a modular toolset specifically designed for the study of science. It supports the temporal, geospatial, topical, and network analysis and visualization of datasets at the micro (individual), meso (local), and macro (global) levels. Users of the tool can

- Access science datasets online or load their own.
- Perform different types of analysis with the most effective algorithms available.
- Use different visualizations to interactively explore and understand specific datasets.
- Share datasets and algorithms across scientific boundaries.

The Sci2Tool is built on the Cyberinfrastructure Shell (CIShell) ([Cyberinfrastructure for Network Science Center, 2008](#)), an open source software framework for the easy integration and utilization of datasets, algorithms, tools, and computing resources. CIShell is based on the OSGi R4 Specification and Equinox implementation (OSGi-Alliance, 2008).

Exemplary reference systems supported by Sci2 including Temporal Bar Graph (top, left), Choropleth map (top, right), UCSD science map (bottom, left), bimodal network visualization (bottom, right):



(click on image to see full size)