Mapping Aging Research

VxInsight is a general purpose knowledge visualization software package developed at Sandia National Laboratories that enables researchers, analysts, and decision-makers to accelerate their understanding of large databases.

(www.cs.sandia.gov/projects/VxInsight.html)

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This visualization shows two snapshots of a navigable 'data landscape' generated from NIA grant data and Science Citation Index data. Based on co-term and co-citation analysis, similar documents are positioned close together and dissimilar documents are far apart. Groups of documents create peaks in the data landscape. Labels are automatically generated for landscape features from the underlying documents. The resulting landscape shows subfields in aging research at both global and detailed levels.

VxInsight allows users to interactively browse, explore, and retrieve information from large databases in an intuitive way. Users can navigate the landscape by zooming in and out. They can query for titles, abstracts, keywords, authors, etc., or retrieve specific documents. Trends in science can be seen by use of the time-slider to watch the growth, decay, or evolution of groups of documents (landscape peaks) over time.

Data Visualization & Interaction Design

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