

Linked-View Parallel Coordinate Plot Renderer

Copyright Document Number

CR13-00042

Copyright Summary

There is often a need to visualize and interact with multidimensional data for hypothesis testing and knowledge discovery. This need can become complicated for large-scale displays or challenging for real-time interactivity on a desktop computer when thousands to millions of simulations need to be displayed. The software allows multiple linked views for interactive querying via map-based data selection, bar chart analytic overlays, and high dynamic range (HDR) line renderings. The major component of the visualization package is a parallel coordinate renderer with binning, curved layouts, shader-based rendering, and other techniques to allow interactive visualization of multidimensional data.

Inventor

NEW, JOSHUA
Energy and Transportation Science Division

Licensing Contact

SIMS, DAVID L. UT-Battelle, LLC
Oak Ridge National Laboratory
Rm 124C, Bldg 4500N, MS: 6196
1 Bethel Valley Road
Oak Ridge, TN 37831
Office Phone: (865) 241-3808
E-mail: SIMSDL@ORNL.GOV

Note: The copyright described above is an early stage opportunity. Licensing rights to this intellectual property may be limited or unavailable.