

Cerebral: Visualizing Multiple Experimental Conditions on a Graph with Biological Context

systems biologist context interaction graph
graph model dataset figure

edge tool cell

gene layout algorithm process node cerebral

Aaron Barsky, Tamara Munzner, Jennifer Gardy, and Robert Kincaid

Multi-Focused Geospatial Analysis Using Probes

probe interface

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Thomas Butkiewicz, Wenwen Dou, Zachary Wartell, William Ribarsky, and Remco Chang

Stacked Graphs: Geometry & Aesthetics

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Lee Byron and Martin Wattenberg

Vispedia : Interactive Visual Exploration of Wikipedia Data via Search-Based Integration

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Bryan Chan, Leslie Wu, Justin Talbot, Mike Cammarano, and Pat Hanrahan

Geometry-Based Edge Clustering for Graph Visualization

edge bundle technique polyline segment

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Weiwei Cui, Hong Zhou, Student., Huamin Qu, Pak Chung Wong, and Xiaoming Li

VisGets: Coordinated Visualizations for Web-based Information Exploration and Discovery

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Marian Dörk, Sheelagh Carpendale, Christopher Collins, and Carey Williamson

Who Votes For What? A Visual Query Language for Opinion Data

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Geoffrey M. Draper, and Richard F. Riesenfeld

Exploration of Networks Using Overview+Detail with Constraint-based Cooperative Layout

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Tim Dwyer, Kim Marriott, Falk Schreiber, Peter J. Stuckey, Michael Woodward and Michael Wybrow

Rolling the Dice: Multidimensional Visual Exploration using Scatterplot Matrix Navigation

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Niklas Elmqvist, Pierre Dragicevic, and Jean-Daniel Fekete

Interactive Visual Analysis of Set-Typed Data

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Wolfgang Freiler, Kresimir Matković, Computer Society, and Helwig Hauser

Graphical Histories for Visualization: Supporting Analysis, Communication, and Evaluation

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Jeffrey Heer, Jock D. Mackinlay, Chris Stolte, and Maneesh Agrawala

Improving the Readability of Clustered Social Networks using Node Duplication

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Nathalie Henry, Anastasia Bezerianos, and Jean-Daniel Fekete

EMDialog: Bringing Information Visualization into the Museum

touch emily carr

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Uta Hinrichs, Holly Schmidt, and Sheelagh Carpendale

On the Visualization of Social and other Scale-Free Networks

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Yuntao Jia, Jared Hoberock, Michael Garland, and John C. Hart

A Framework of Interaction Costs in Information Visualization

visualization user intent study focus-lock mode

paper interaction cost participant item interface operation

GOAL OF EVALUATION (1) Costs of decisions (27.0%) (2) Costs of system power (16.0%) (3) Costs of multiple input (10.0%) (4) Costs of multiple output (10.0%) (5) Costs of view changes (10.0%) (6) Costs of view changes (10.0%) (7) Costs of state changes (10.0%) (8) Costs of state changes (10.0%)

focus lock framework evaluation

section interaction target

overview window subject gulf

Heidi Lam

Distributed Cognition as a Theoretical Framework for Information Visualization

cognitive property process endangered specy

infovis system cognition insight

internal representation

Rule1 Rule2 Rule3

Orange Int Int Int

Donut Int Int Ext

Coffee Int Ext Ext

developer cognitive system

report theory artifact

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Zhicheng Liu, Nancy J. Nersessian, and John T. Stasko

Particle-Based Labeling: Fast Point-Feature Labeling without Obscuring Other Visual Features

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Martin Luboschik, Heidrun Schumann and Hilko Cords

Rapid Graph Layout Using Space Filling Curves

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Chris Muelder and Kwan-Liu Ma, Senior

HIPP: A Novel Hierarchical Point Placement Strategy and Its Application to the Exploration of Document Collections

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Fernando V. Paulovich and Rosane Minghim

Effectiveness of Animation in Trend Visualization

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George Robertson, Roland Fernandez, Danyel Fisher, Bongshin Lee, and John Stasko

Viz-A-Vis: Toward Visualizing Video through Computer Vision

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Mario Romero, Jay Summet, John Stasko, and Gregory Abowd

Balloon Focus: a Seamless Multi-Focus+Context Method for Treemaps

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Ying Tu and Han-Wei Shen

Perceptual Organization in User-Generated Graph Layouts

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Frank van Ham and Bernice E. Rogowitz, Senior

The Word Tree, an Interactive Visual Concordance

tree structure common word user time

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Martin Wattenberg and Fernanda B. Viégas

Evaluating the Use of Data Transformation for Information Visualization

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Zhen Wen and Michelle X. Zhou

Spatially Ordered Treemaps

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Jo Wood, and Jason Dykes

The Shaping of Information by Visual Metaphors

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Caroline Ziemkiewicz and Robert Kosara