Exploring InfoVis Publication History with Tulip

Maylis Delest, LaBRI Bordeaux

Tamara Munzner, UBC
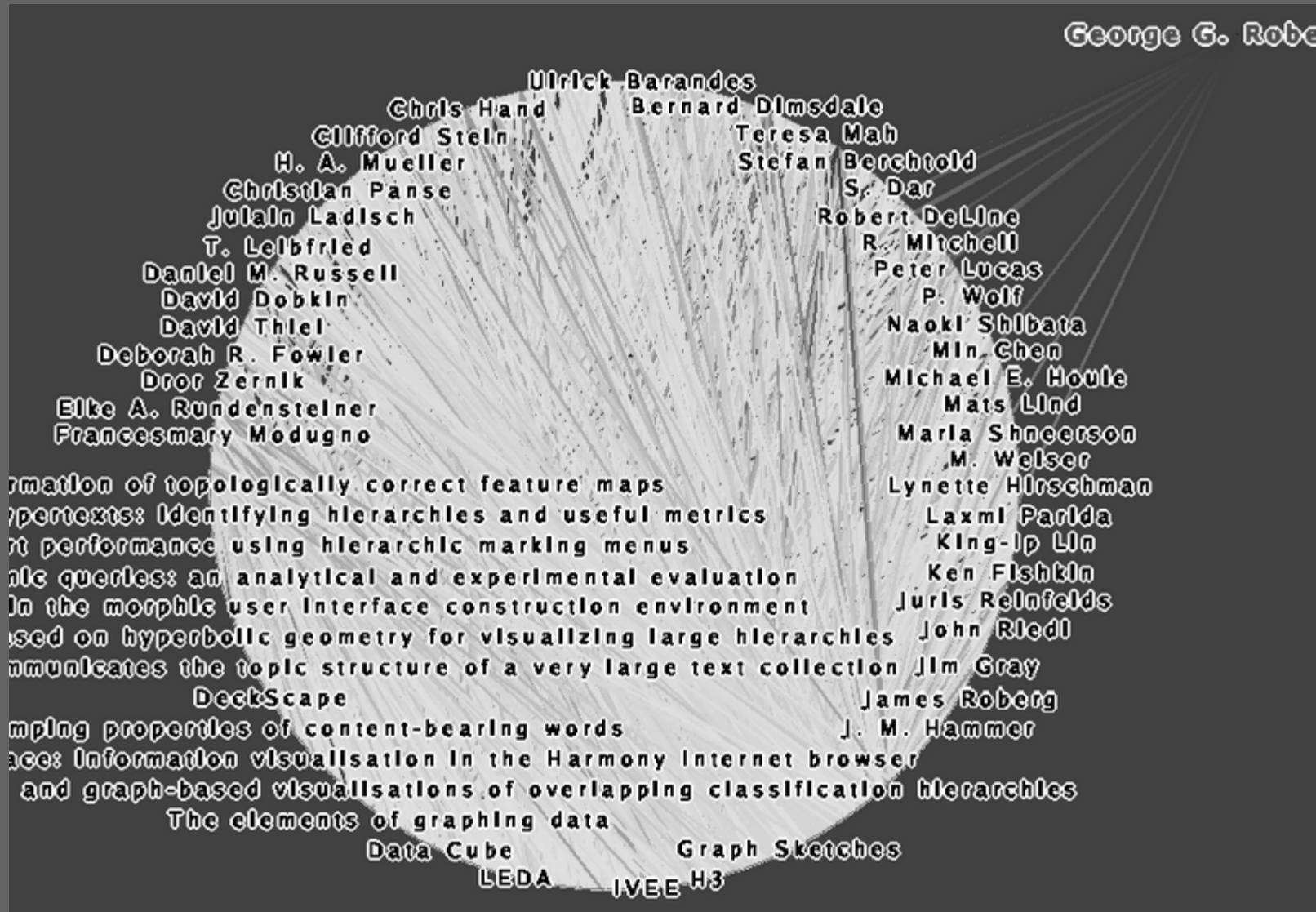
David Auber, LaBRI Bordeaux

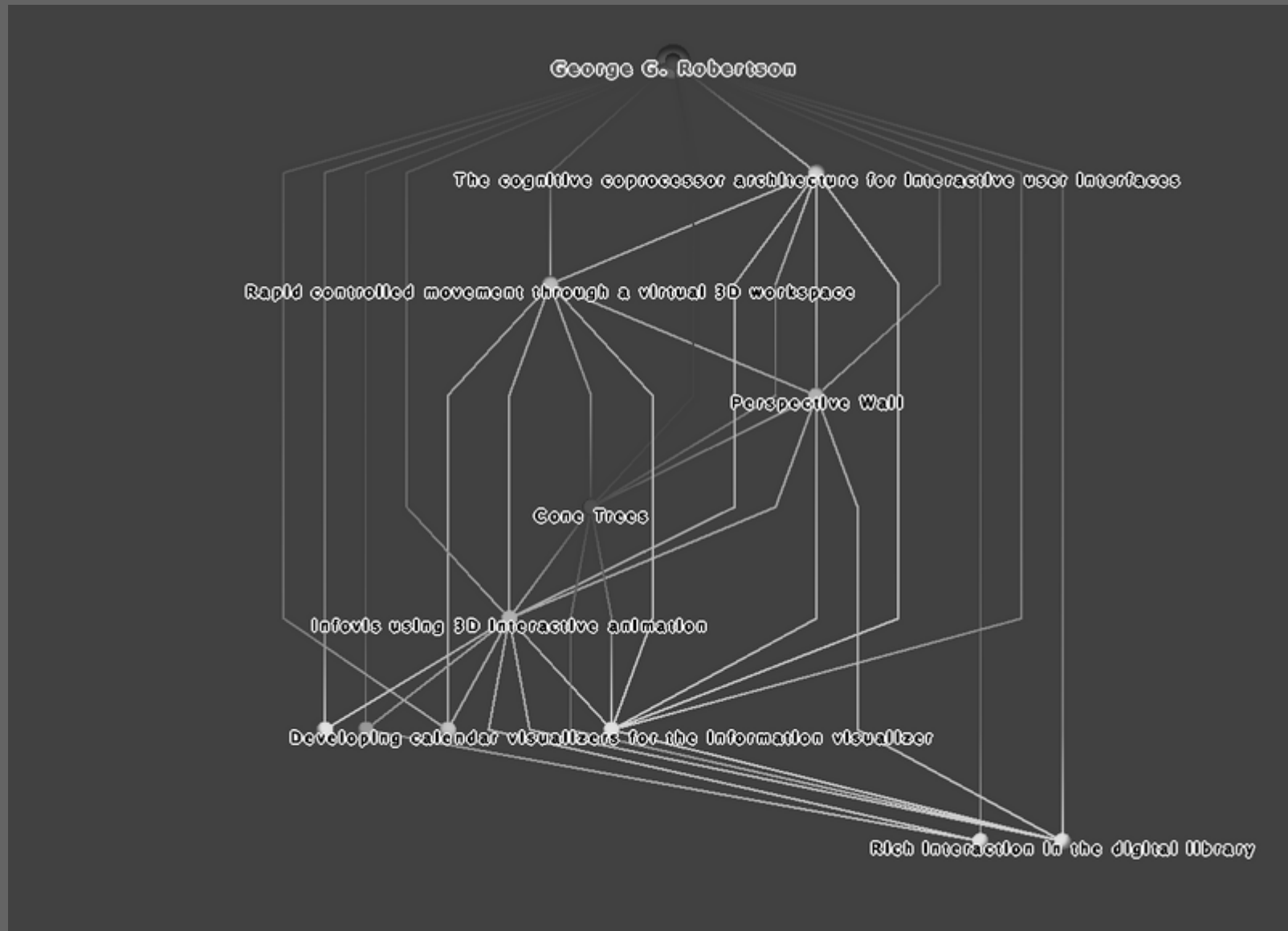Jean-Philippe Domenger, LaBRI Bordeaux

Tulip

- graph drawing testbed
  - scalable
  - powerful
  - flexible
- functionality
  - clustering
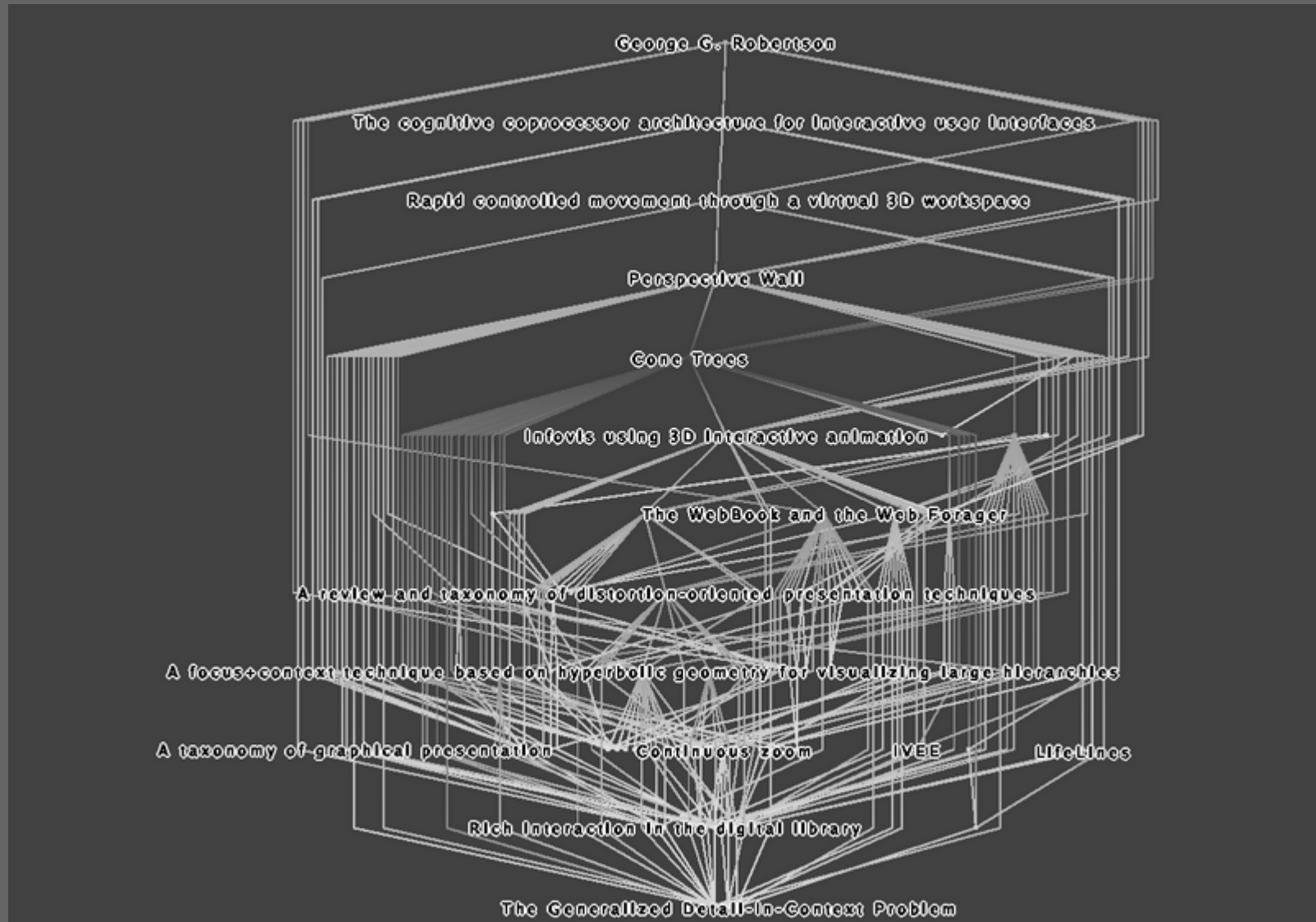 - layout
  - interaction
  - guaranteed frame rate rendering

Finding GGR: interactively move
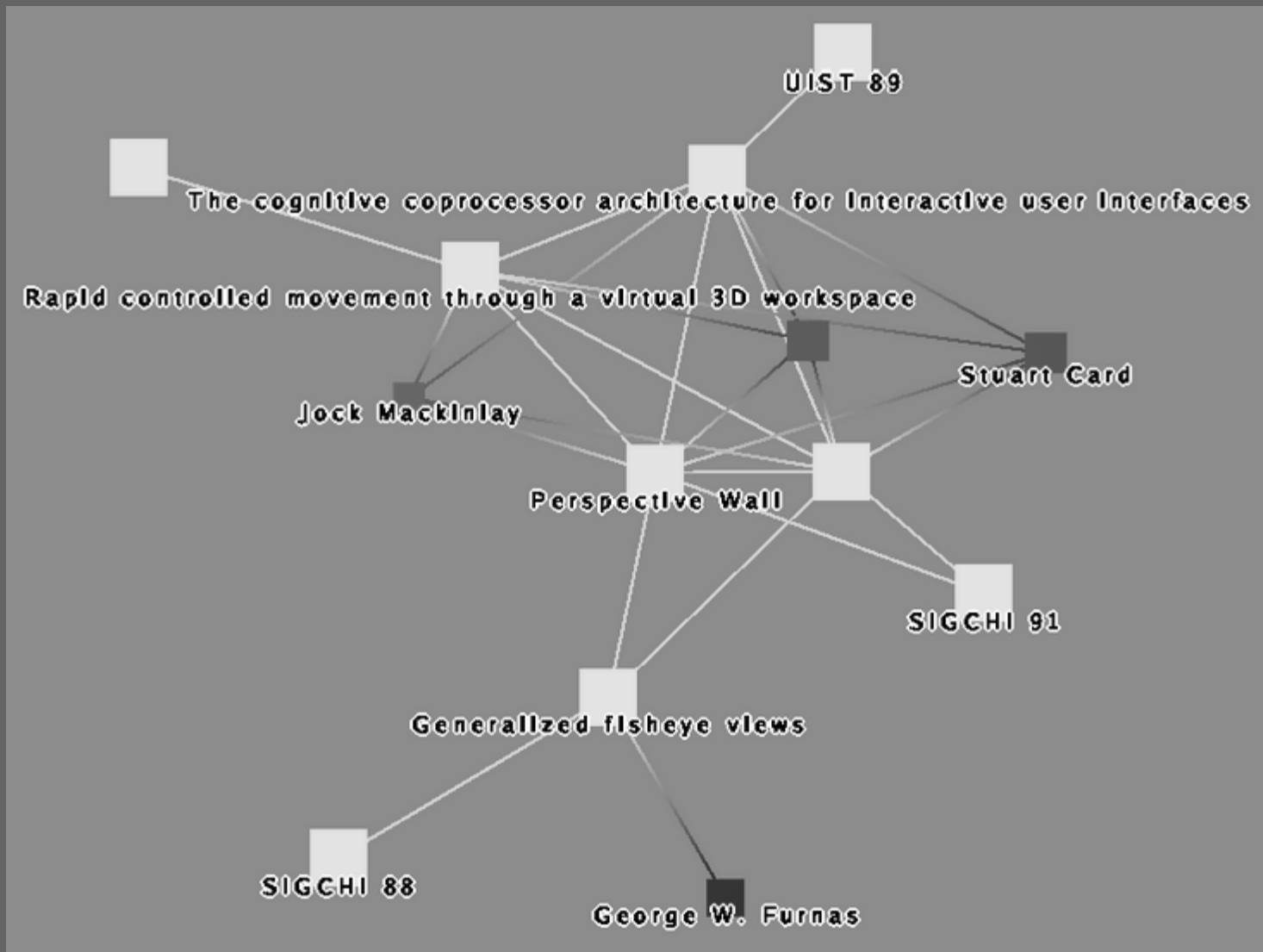
Reachable subgraph 1 hop: papers
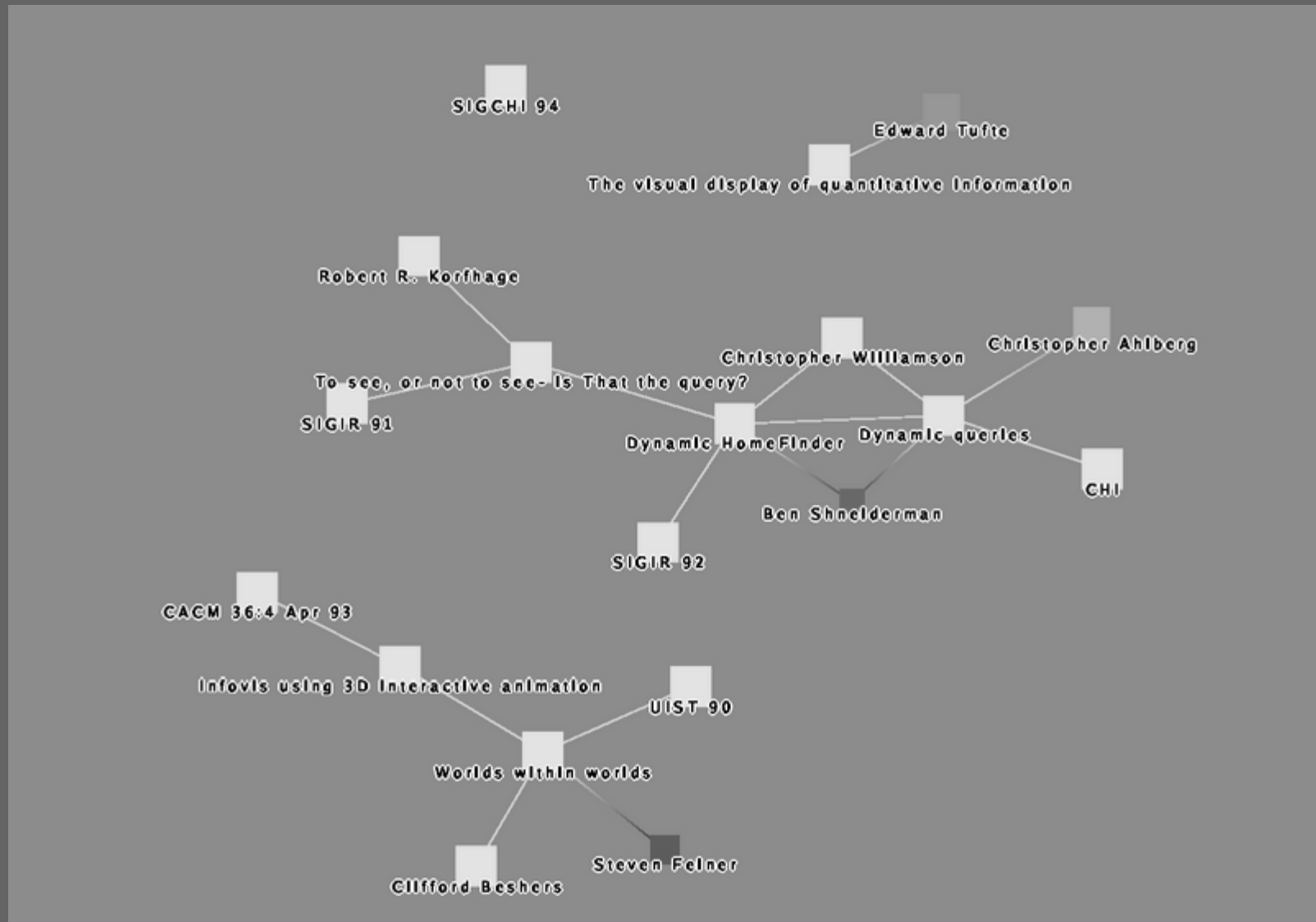
Reachable subgraph 2 hops: citers

Convolution Clustering

- visually determine best number of clusters

  - Strahler based graph clustering using convolution. David Auber, Maylis Delest, and Yves Chiricota. 8th Int'l IEEE Conference on Information Visualisation, London, 2004

- clusters quite stable, show off core topics
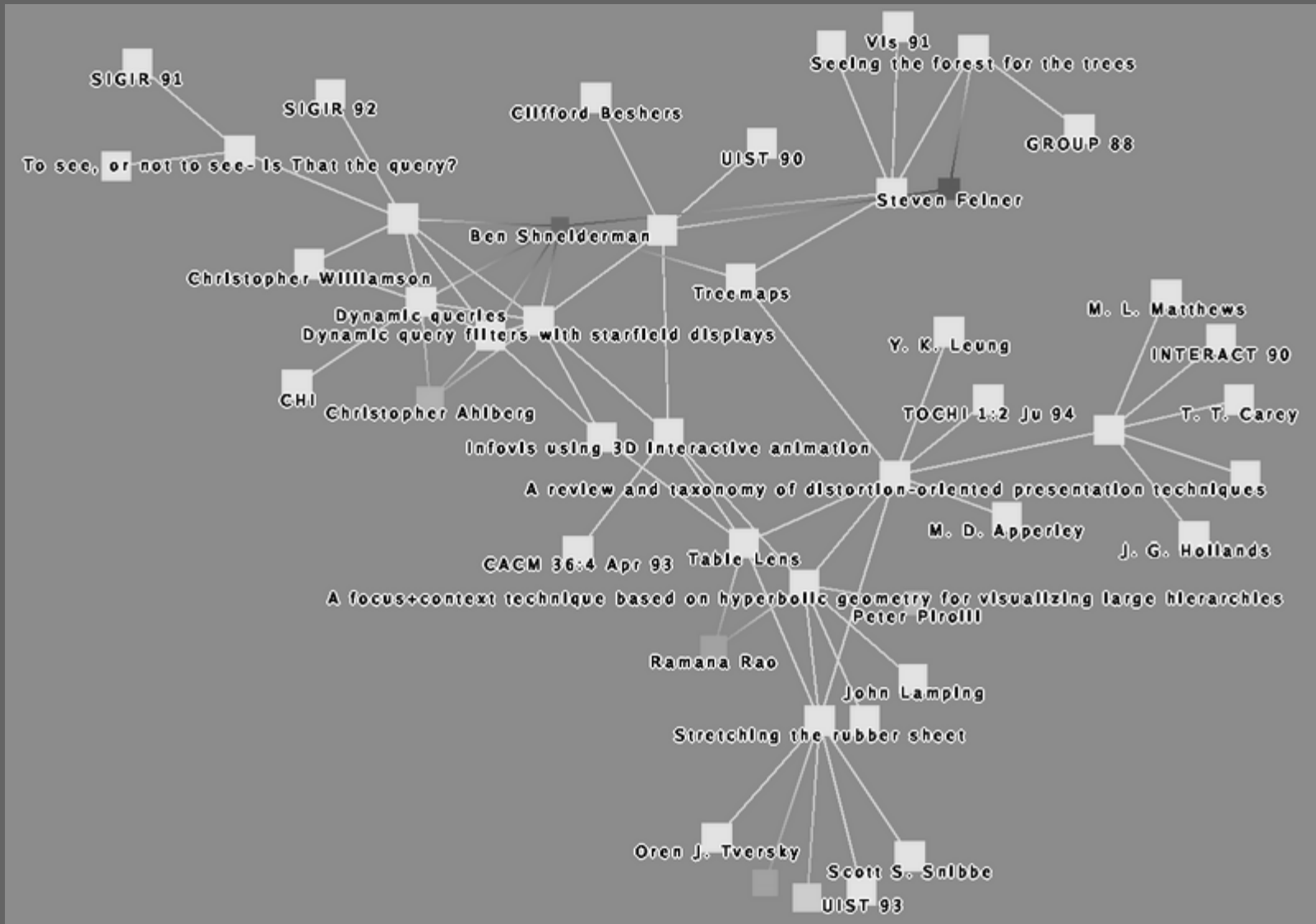
- Strahler metric measures "centrality"
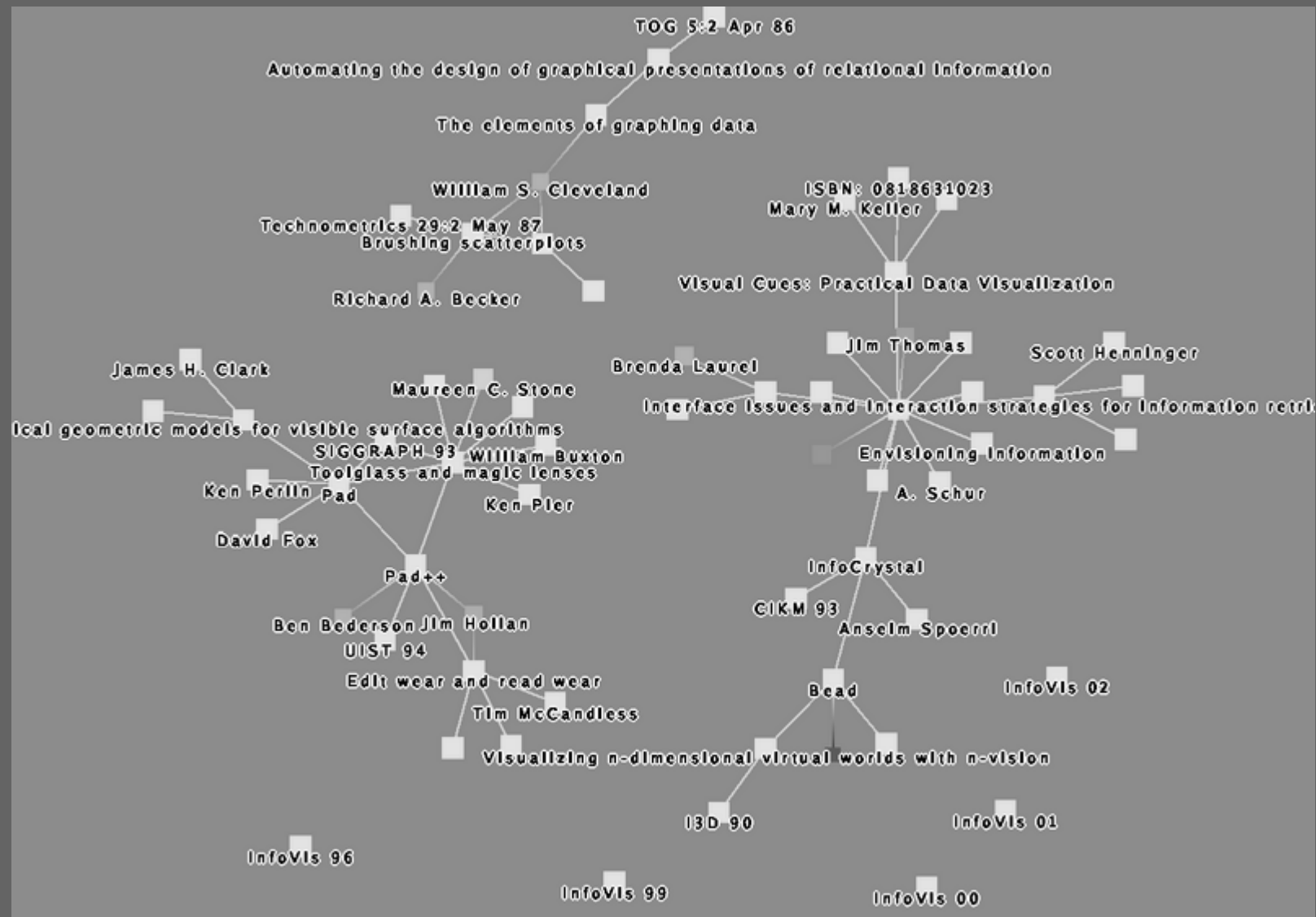
Cluster 1: PARC/Furnas, F+C
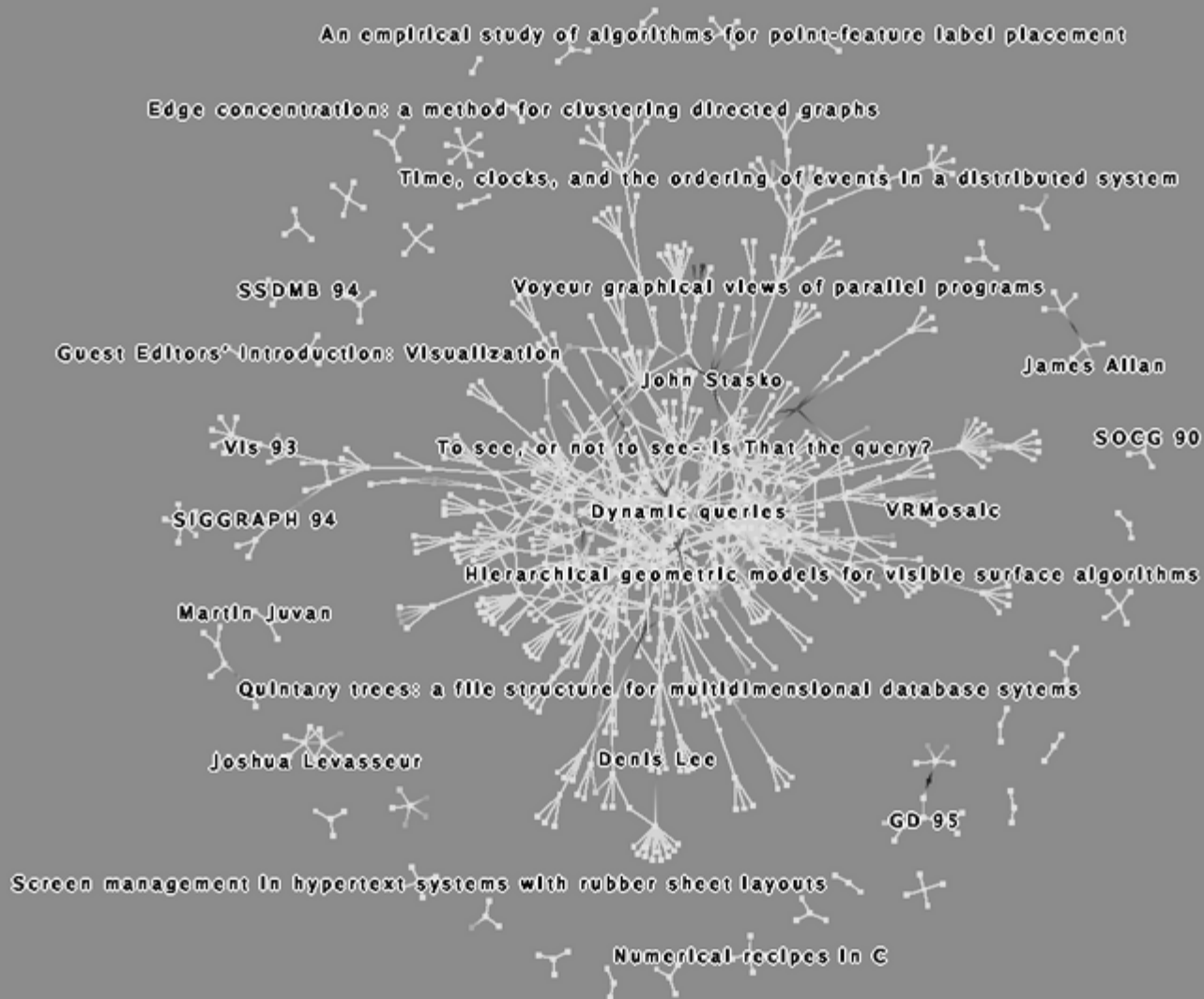
Cluster 2: Dynamic Queries, Tufte
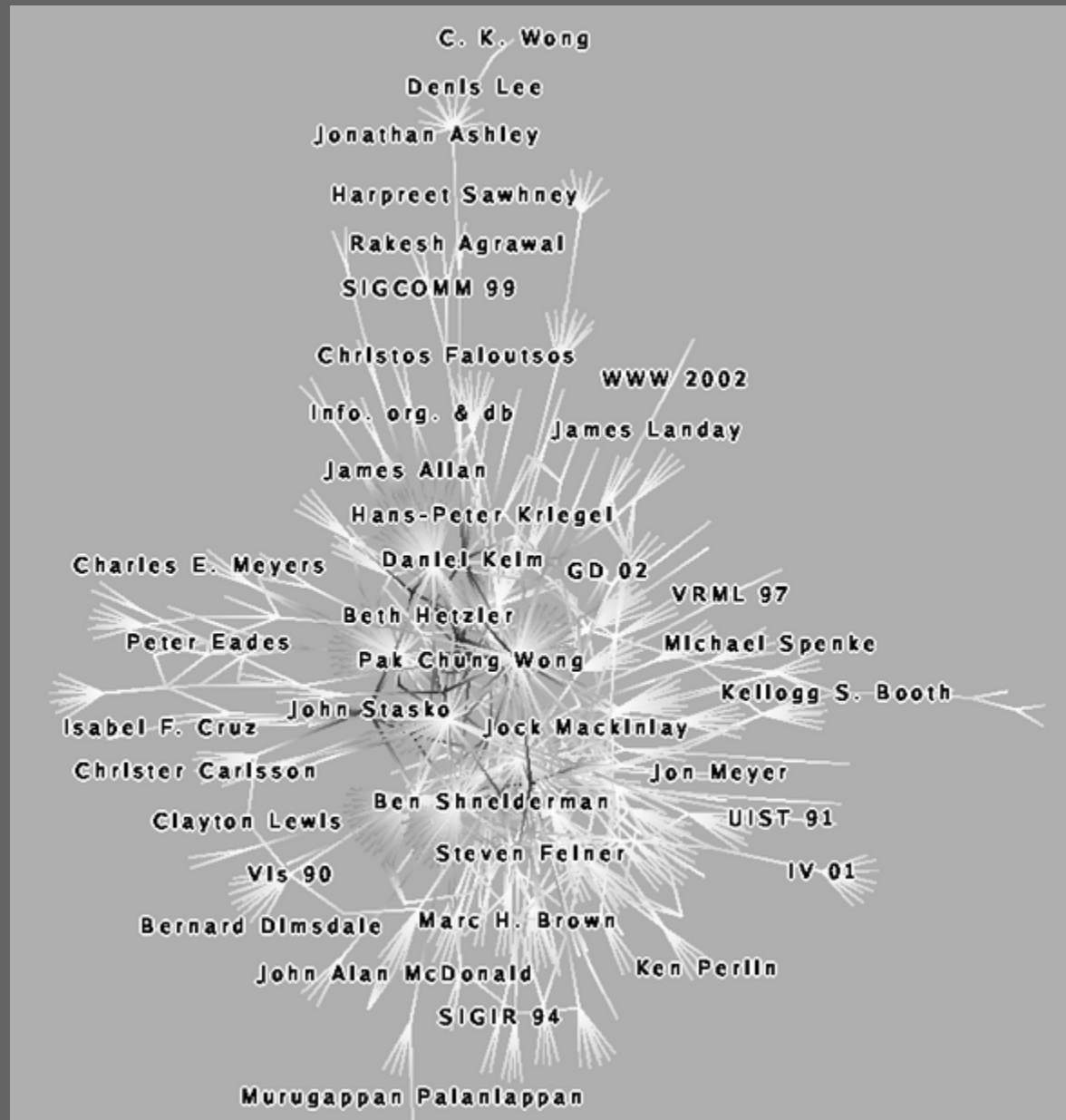
Cluster 3: Focus+Context

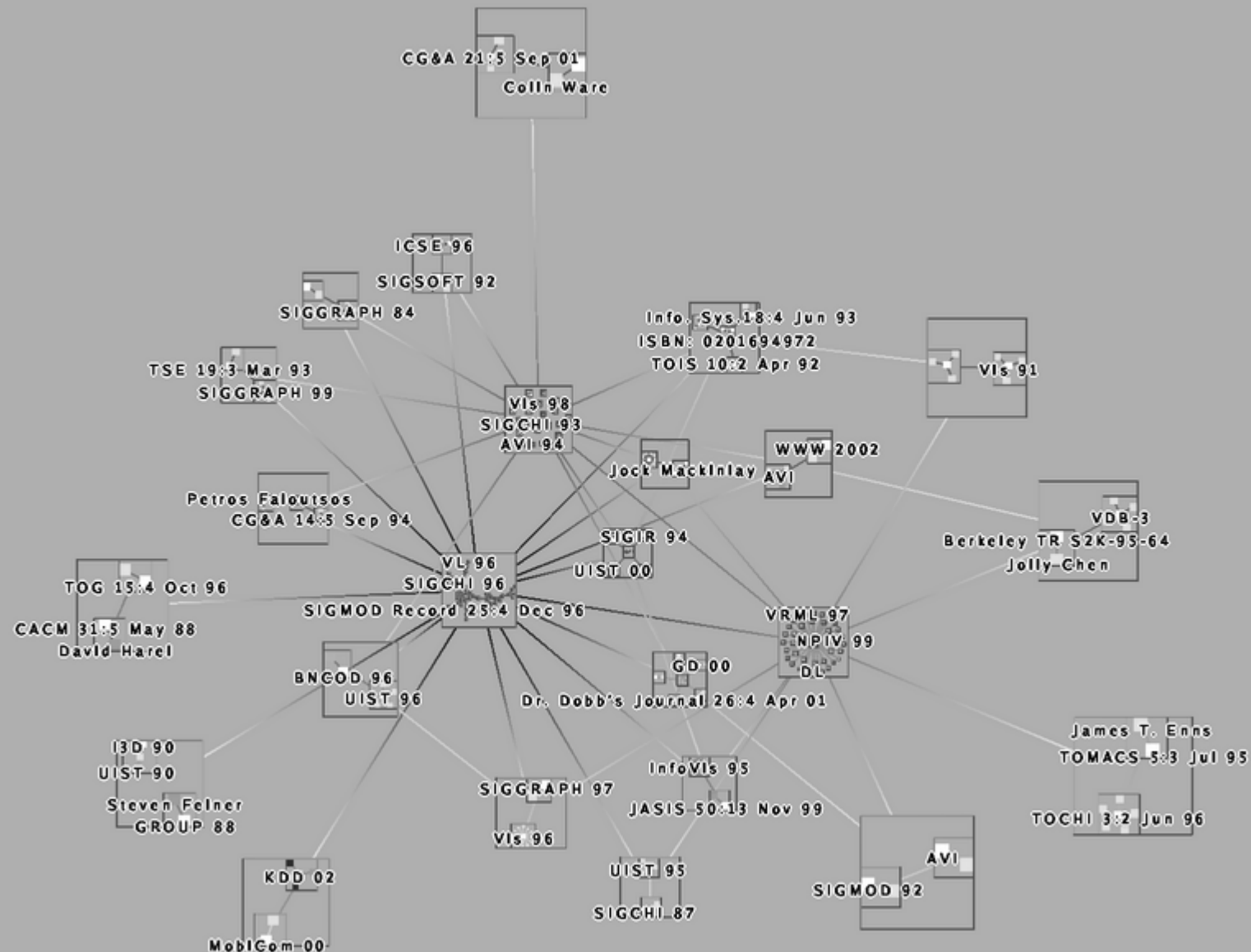# Cluster 4: ZUIs, high dim, brushing

Cluster 5: everything else

Core Clutter with Auth-Conf

Small-World Clustering

Recursively Cluster