genSpace: Exploring Social Networking Metaphors for Scientific Collaborative Work
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• Prior work on collaboratories for computational scientists
  – Tool sharing (e.g. BioCoRE from Univ. of Illinois at U-C)
  – Data sharing (e.g. BSC from Pacific Northwest National Lab)

We seek to introduce knowledge sharing
– What tools / dataset should I use?
– Who also uses this tool / dataset?
– Which tools and datasets work together?
– Where does this tool / dataset fit in the workflow?
– When did I previously use this tool / dataset?
– How can I get help?

• Social Networking facilitates Collaborative Filtering
  – What movies would I like?
  – Who also likes this book?
  – Which food and wine go together?
  – Where does this song fit in the playlist?
  – When was this restaurant last reviewed?
  – How can I get help?

• Investigate Social Networking Models as an approach to Scientific Knowledge Sharing
• Implement prototype for geWorkbench

genSpace: Technical Approach
• genSpace is a geWorkbench plugin
• Instrument geWorkbench to record analysis events
• Aggregate event logs for communities of users
• Automatically construct networks of “similar” users
• Data mine usage patterns
• Query via Instant Messaging (IM) “bots”
• Visualize networks and workflows

genSpace Plugin
IM based query interface
Single Workflow Visualization
Workflow Relationship Visualization