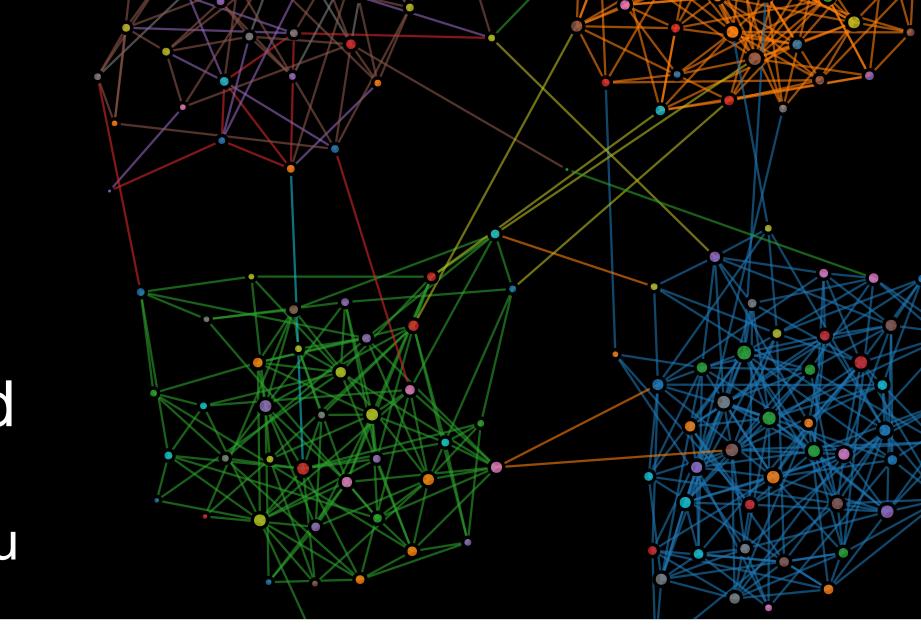


Network Data Repository with Interactive Graph Analytics and Visualization

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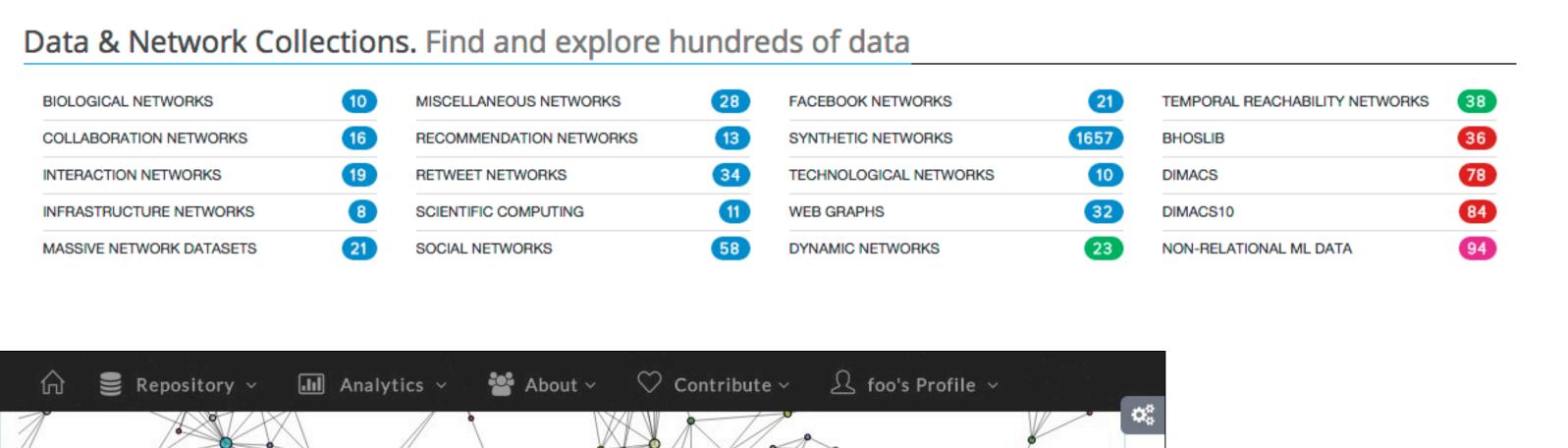
Nesreen K. Ahmed
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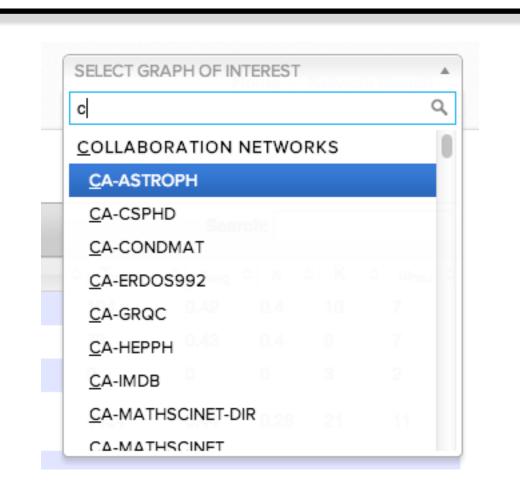


Network Repository

(NR) [http://NetworkRepository.com]

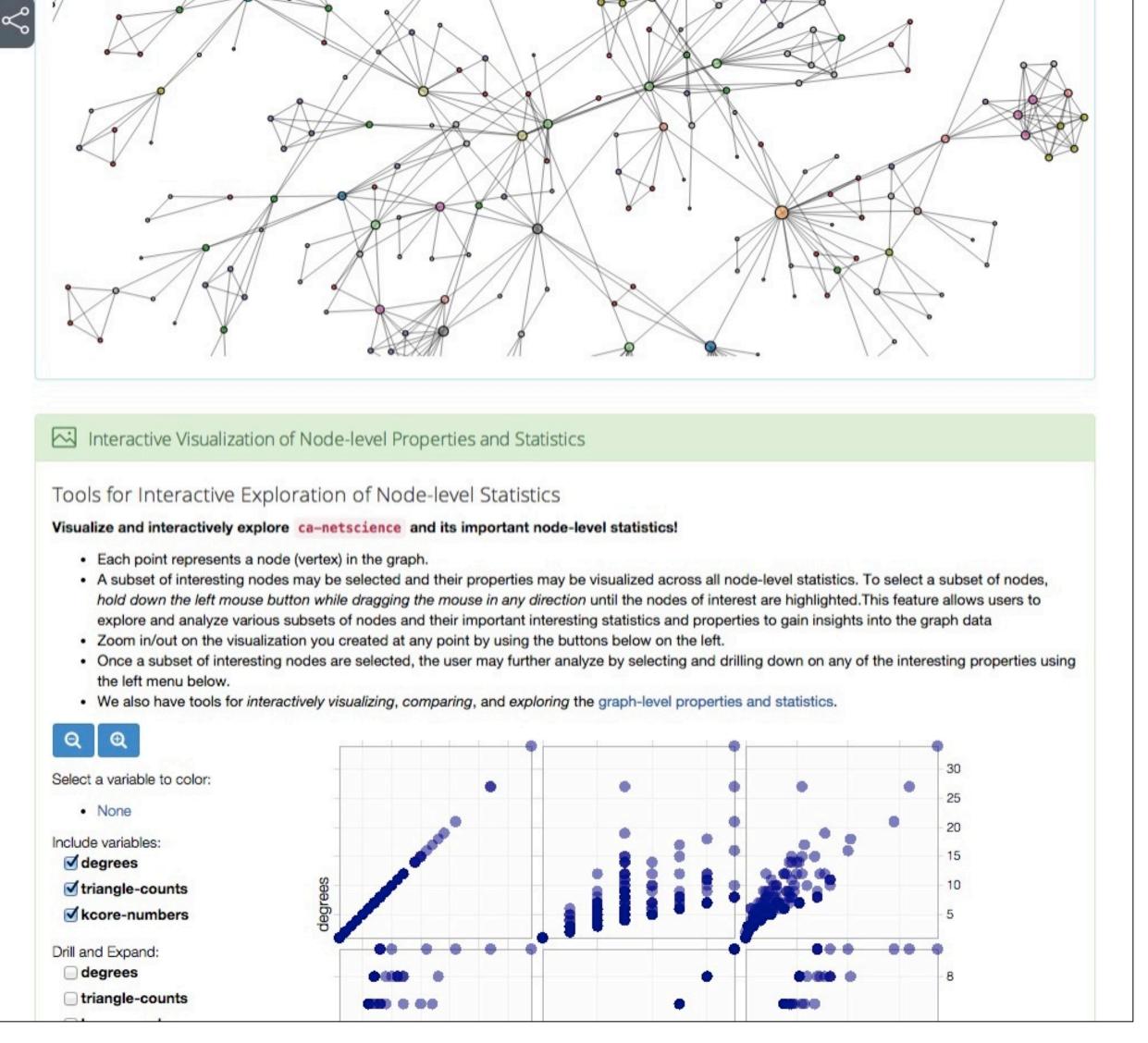
- Find, understand, and explore 500+ networks in over 20+ collections, from biological, technological, and social networks
- NR is the first interactive network data repository with a web-based platform for visual interactive analytics
- NR allows users to share, download and interactively analyze/visualize data using a web-based interactive graph analytics platform
- Users can in real-time analyze, visualize, compare, and explore data along many different dimensions
- NR is community-oriented and incorporates many social and collaborative aspects that facilitate scientific research
 - users can discuss each graph, post observations, and visualizations

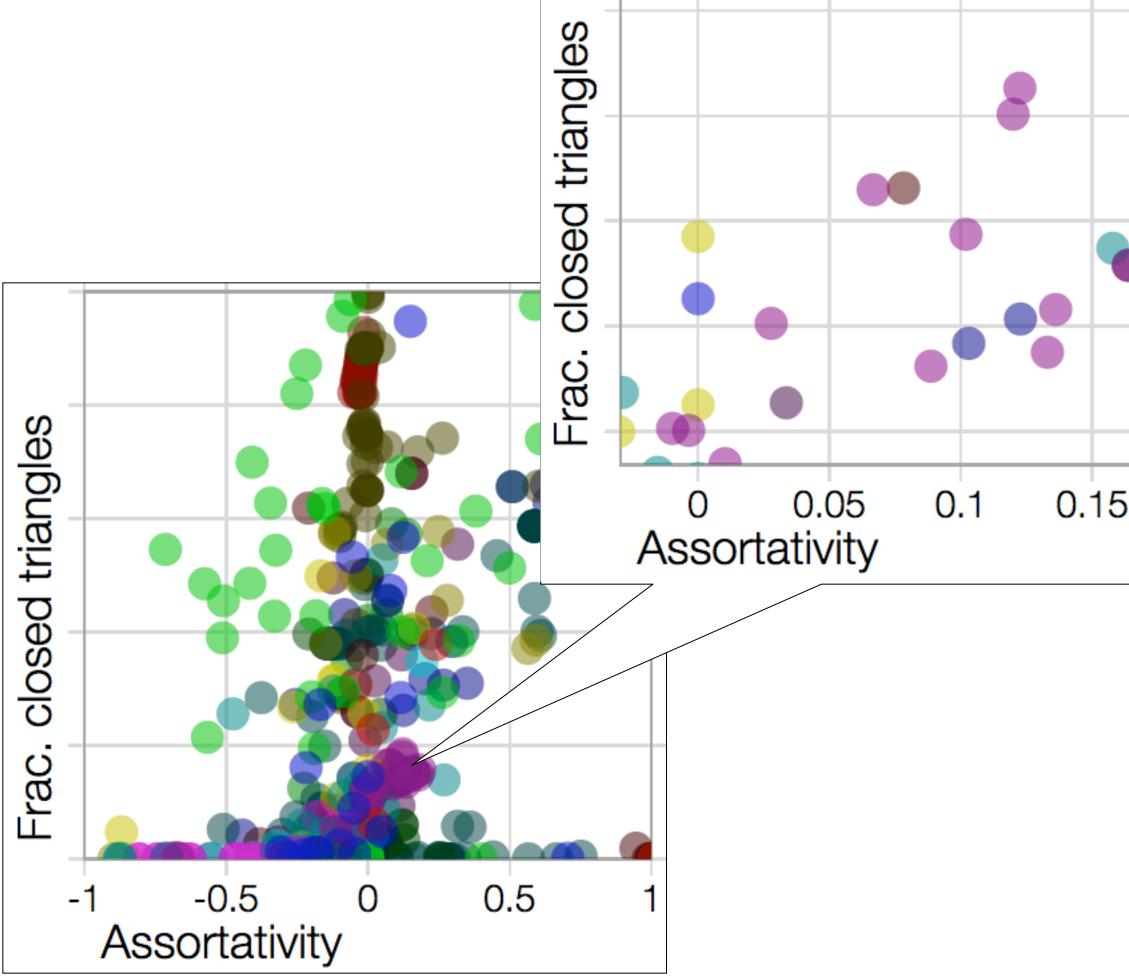


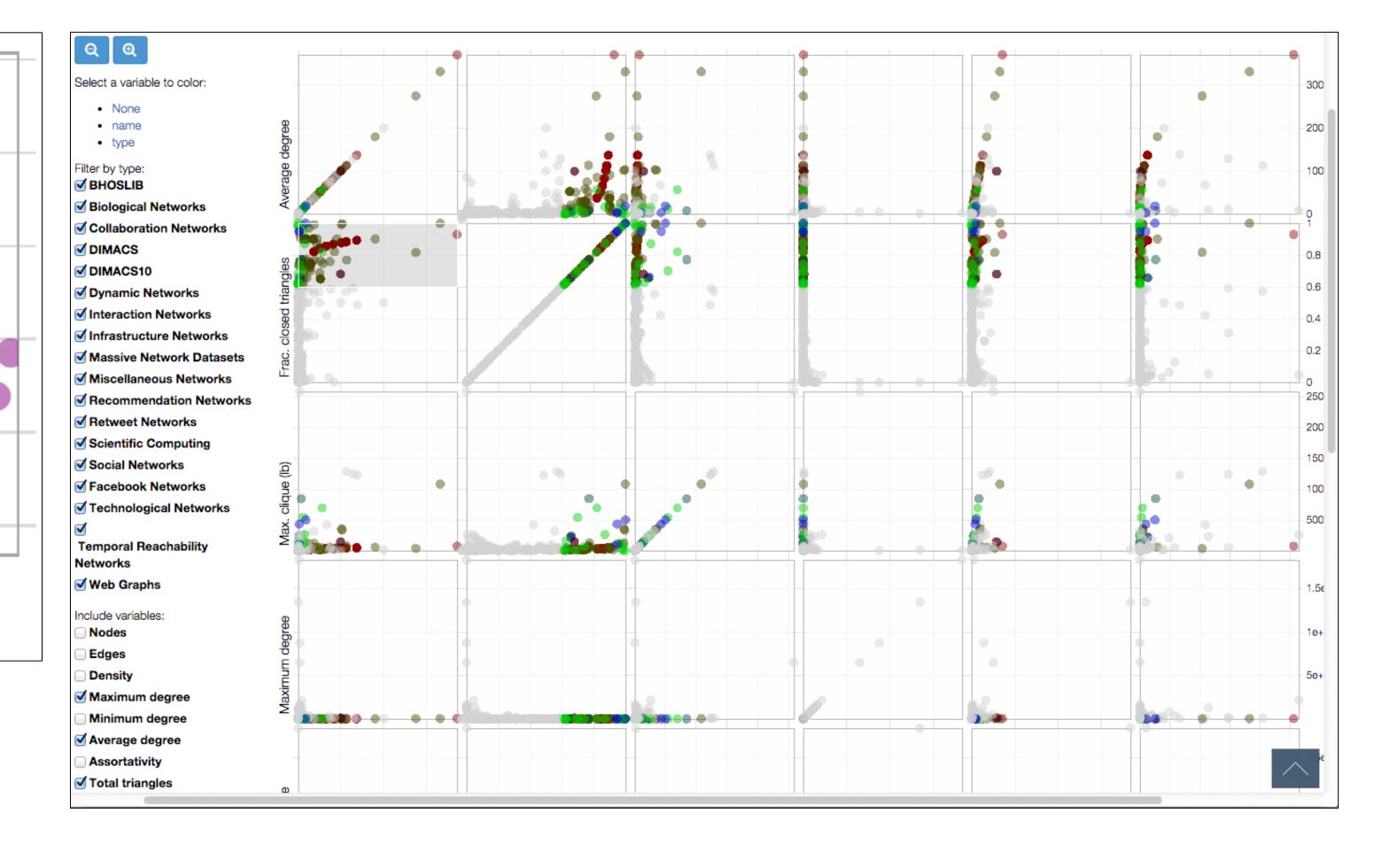




Compare Networks Interactively

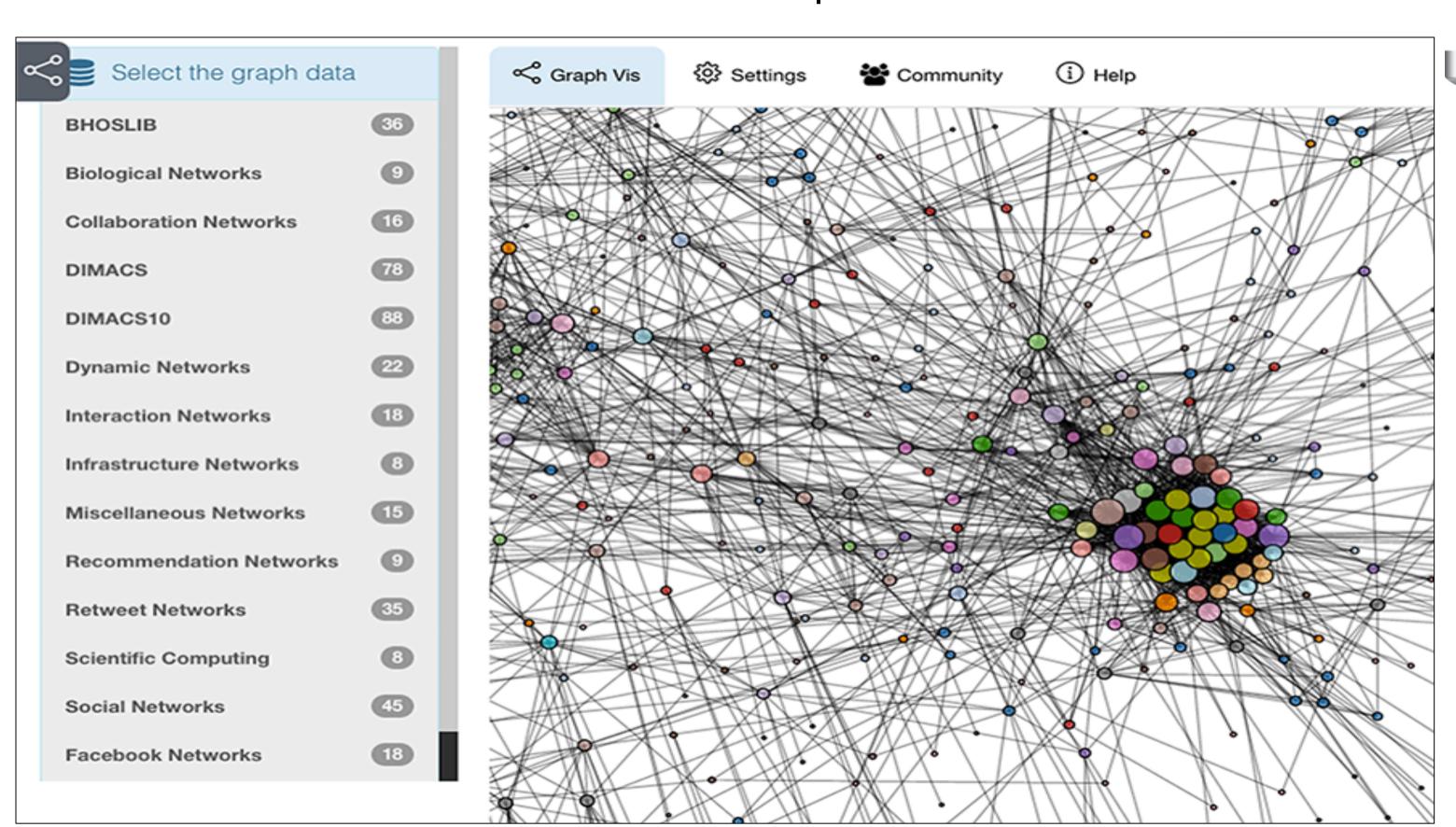


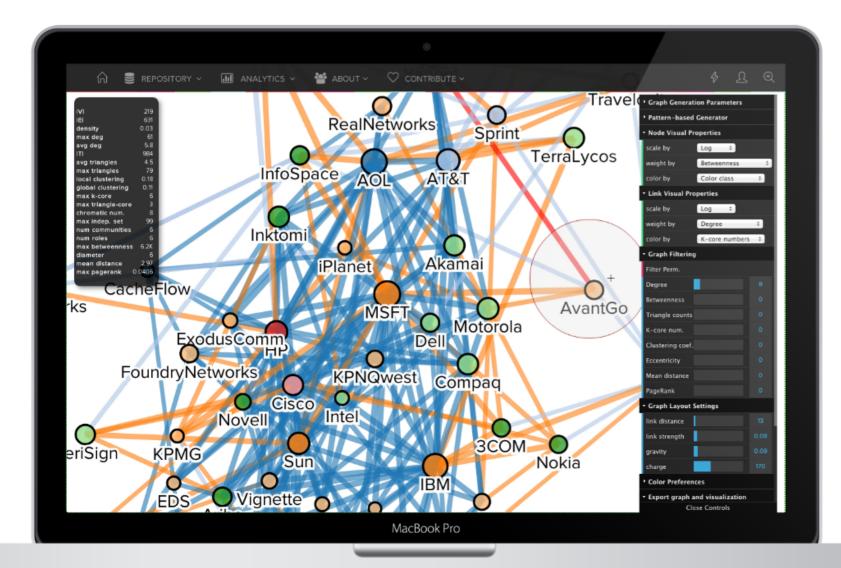


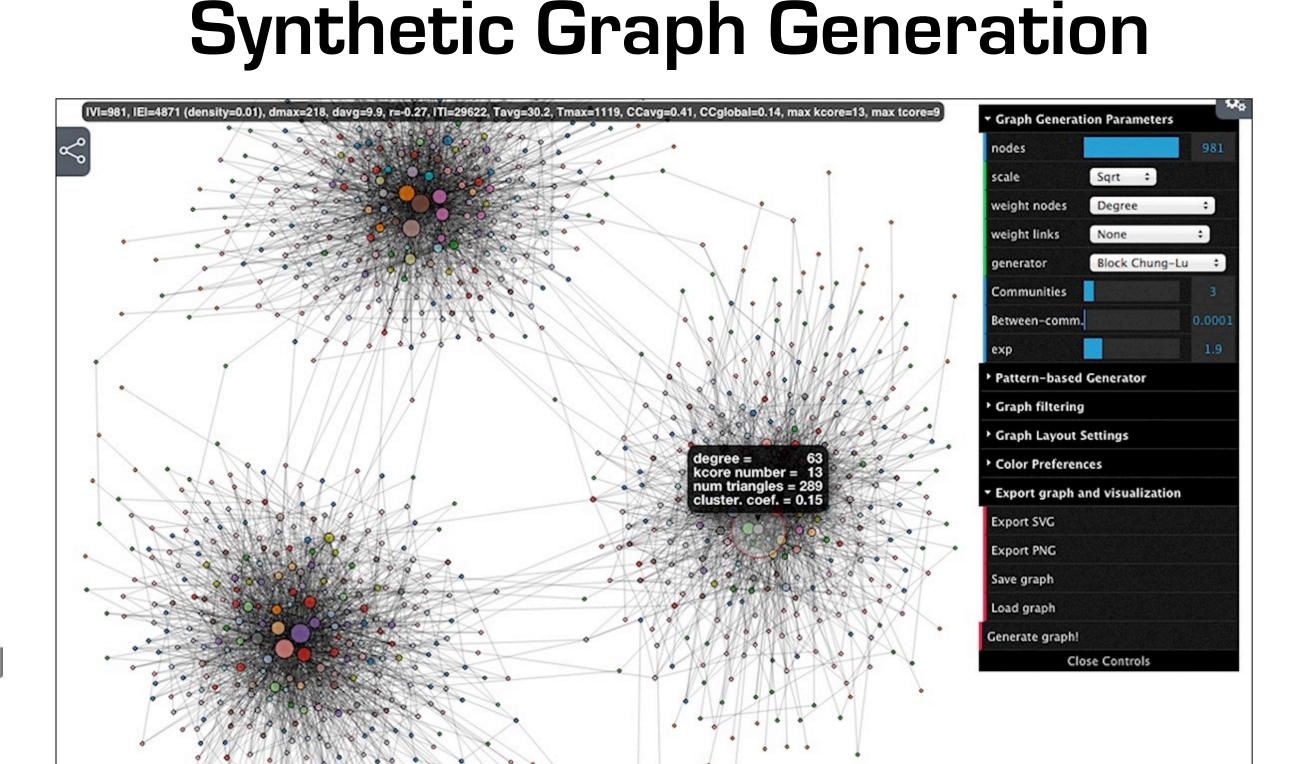


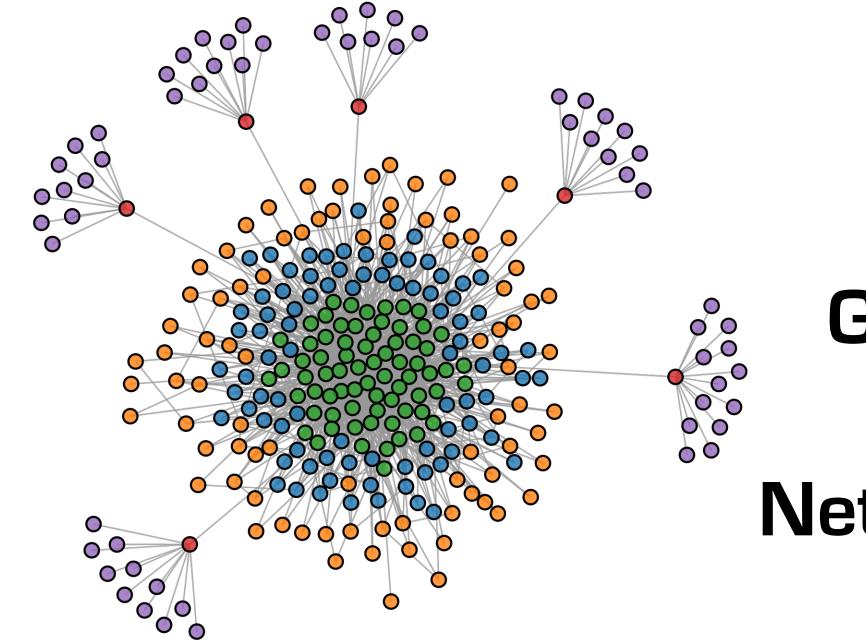
Multi-level Visual Interactive Graph Analytics: From Global to Local Properties

- interactive network visualizations,
- global network statistics,
- local node-level network stats & features, and
- interactive visualizations of the important network distributions.

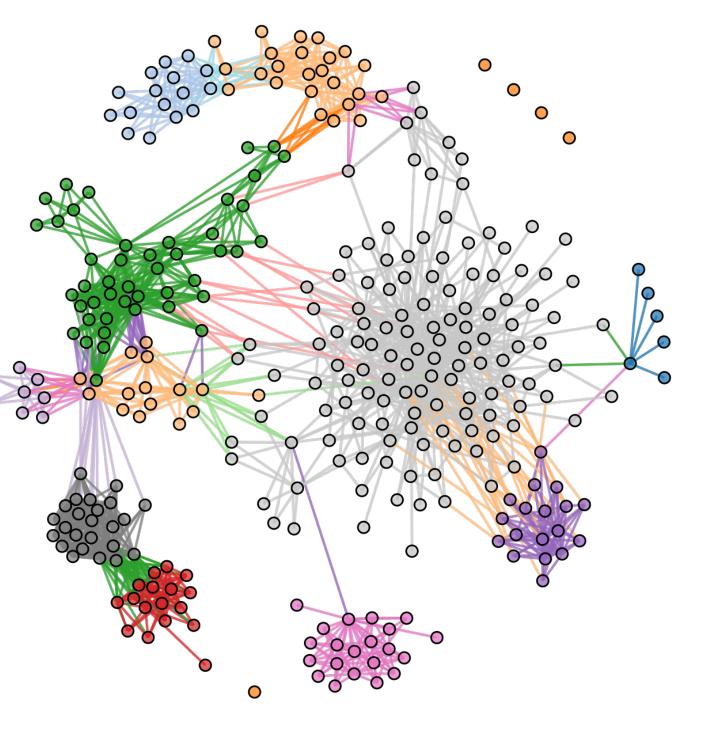








Graph Mining and Analysis



Role Discovery