

Social Media Network Analytics Using ORA

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Keywords: Social Networks, Social Media, Dynamic Network Analysis, ORA, Network Visualization

Network analytics are widely used in many fields. Increasingly though, the networks of interest are high dimensional. For example, studies of organizations might look at the social network within the organization as well as the task assignment and knowledge network. Studies using Twitter frequently look at the mentions network at the same time as the hashtag network. ORA is a powerful network analysis and visualization tool. ORA supports the assessment of standard social network data, organizational network data, high-dimensional network data, meta-network data, geo-spatial network data, and dynamic network data. This tutorial will cover the basics of using ORA to support social media analytics using high dimensional network analytics and visualization.

Description: A lecture and hands-on workshop in which attendees learn about network science and the ORA toolkit. Using ORA the attendees will learn how to import, export, visualize, and assess data. Attention will be focused on processing Twitter, Blogs and YouTube data. Network analytics for content. Topic group detection. Participants will be presented with a thorough demonstration of software features used to create a sample network and analyze it. Sample data sets will be available.

This session begins with an overview of ORA, and techniques for entering, visualizing, and analyzing social and meta-network (high dimensional) data. Special features for handling node attributes are presented. Key node identification, clustering, spatio-temporal analytics and visualization, social media analytic, and semantic networks are then covered. Special unique features of ORA such as trail visualization, multi-mode network assessment, two mode metrics, JSON importers for Twitter, Blogtrackers and YouTube Tracker, and CSV importers will be addressed.

Who Should Attend? Those who are interested in assessing social media data, networks derived from texts, groups, organizations or community interaction using social media data, should attend this 3 hour workshop. The material and its delivery is suitable for researchers and practitioners, alike. This is designed to be a non-technical workshop, however, by its very nature, the material will involve some mathematics, although this will be minimized as the delivery is driven towards forming an understanding of the concepts, not mastery of the details.

Topics Include:

- Social Network Analysis
- Comparing and contrasting networks
- Weighted networks
- Analyzing Social Media data
- Communicative Reach
- Topic Groups
- ORA software
 - Data management, Visualization, General, , Grouping algorithms, Reporting