

Abrahamson, E., & Rosenkopf, L. (1997) 'Social Network Effects on the Extent of Innovation Diffusion: A Computer Simulation', *Organization Science*, 8: 289-309.

Ahuja, M. (1995) 'A Longitudinal Study of Network and Individual Performance in Distributed Design Groups', CASOS Working Paper.

Airoldi, E., Carley, K. (2005) 'Sampling Algorithms for Pure Network Topologies: Stability and Separability of Metric Embeddings', *SIGKDD Explorations*, 7: 13-22.

Anderson, B., Butts, C., Carley, K. (1999) 'The Interaction of Size and Density with Graph-Level Measures to Social Networks', *Social Networks*, 21: 239-267.

Banks, D., Carley, K. (1994) 'Metric Inference for Social Networks', *Journal of Classification*, 11: 121-149.

Banks, D., Carley, K. (1996) 'Models for Network Evolution', *Journal of Mathematical Sociology*, 21 (1-2): 173-196.

Barabási, A. (2009) 'Scale-Free Networks: A Decade and Beyond', *Science*, 325: 412-413.

Barnes, J. & Harary, F. (1983) 'Graph Theory in Network Analysis', *Social Networks*, 5: 235-244.

Bavelas, A. (1948) 'A Mathematical Model for Group Structure', *Applied Anthropology*, 7: 16-30.

Behrens, D. (1997) 'Self-Isolation and the Structuring of Support: The Relationship Between Stress and Network Evolution', CASOS Working Paper.

Behrman, R. (2003) 'Structure and Effectiveness of Intelligence Organizations', CASOS Working Paper.

Bernard, H., Killworth, P., & Sailer, L. (1980) 'Informant Accuracy in Social Network Data' IV(2): 191-218, and 1982, V(11): 30-66.

Bernard, H.R., Killworth, P., & Cronenfeld, D. (1984) 'The Problem of Informant Accuracy: The Validity of Retrospective Data', *Annual Review of Anthropology*, 13: 495-517.

Bohannon, J. (2009) 'Investigating Networks: The Dark Side', *Science*, 325: 410-411.

Bonacich, Philip (1987) 'Power and Centrality: A Family of Measures', *American Journal of Sociology*, 92: 1170-1182.

Borgatti, S. (2004) 'On the Robustness of Centrality Measures under Conditions of

'Imperfect Data', CASOS Working Paper.

Borgatti, S., Everett, M. (1992) 'Regular Blockmodels of Multiway, Multimode Matrices', Social Networks, 14: 91.

Borgatti, S., Everett, M. (1997) 'Network Analysis of 2-Mode Data', Social Networks, 19: 243.

Breiger, R., Carley, K., Pattison, P. (2003) 'Dynamic Social Network Modeling and Analysis: Workshop Summary and Papers', National Academy Press, Washington, DC.

Burt, Ronald S.; Minor, Michael J. (1983) Applied Network Analysis. Beverly Hills, CA: Sage.

Butts, C. (1999) 'An Axiomatic Approach to Network Complexity ', CASOS Working Paper.

Butts, C. (2000) 'Network Inference, Error, and Informant (In)Accuracy: A Bayesian Approach', CASOS Working Paper.

Butts, C. (2000) 'The Complexity of Social Networks: Theoretical and Empirical Findings', CASOS Working Paper.

Butts, C. (2002) 'Spatial Models of Large-Scale Interpersonal Networks', CASOS Working Paper.

Butts, C., Carley, K. (1997) 'An Algorithmic Approach to the Comparison of Partially Labeled Graphs', CASOS Working Paper.

Butts, C., Carley, K. (2000) 'Canonical Labeling to Facilitate Graph Comparison', CASOS Working Paper.

Butts, C., Carley, K. (2001) 'Multivariate Methods for Inter-Structural Analysis', CASOS Working Paper.

Butts, C., Pixley, J. (2002) 'A Structural Approach to the Representation of Life History Data', CASOS Working Paper.

Carley, K. (1986) 'An Approach for Relating Social Structure to Cognitive Structure', Journal of Mathematical Sociology, 12 (2): 137-189.

Carley, K. (1995) 'Automatic Restructuring of the C2 Structure and Performance', The 1995 International Symposium: Command & Control Research and Technology, Washington, DC.

Carley, K. (2001) 'Summary of Key Measures for Characterizing Organizational Architectures', CASOS Working Paper.

Carley, K. (2003) 'Dynamic Network Analysis', Committee on Human Factors, National

Research Council, : 133-145.

Carley, K. (2004) 'Vulnerabilities in Large Covert Networks Using Multi-Level Data', The NAACSOS 2004 Conference: Pittsburgh, PA.

Carley, K. (2006) 'A Dynamic Network Approach to the Assessment of Terrorist Groups and the Impact of Alternative Courses of Action', Visualising Network Information, Meeting Proceedings RTO-MP-IST-063: NEuillysur-Seine, France.

Carley, K., Altman, N., Kaminsky, B., Nave, D., Yahja, A. (2004) 'Biowar: A City-Scale Multi-Agent Network Model of Weaponized Biological Attacks', CASOS Working Paper.

Carley, K., Banks, D. (1993) 'Nonparametric Inference for Network Data', Journal of Mathematical Sociology, 18 (1): 1-26.

Carley, K., Diesner, J., Reminga, J., Tsvetovat, M. (2004) 'An Integrated Approach to the Collection and Analysis of Network Data', The NAACSOS 2004 Conference: Pittsburgh, PA.

Carley, K., Diesner, J., Reminga, J., Tsvetovat, M. (2004) 'Interoperability of Dynamic Network Analysis Software', CASOS Working Paper.

Carley, K., Diesner, J., Reminga, J., Tsvetovat, M. (2007) 'Toward an Interoperable Dynamic Network Analysis Toolkit', Decision Support Systems, 43: 1324 - 1347.

Carley, K., Eunice, K. (2008) 'Random Graph Standard Network Metrics Distributions in Ora', CASOS Working Paper.

Carley, K., Kamneva, N. (2004) 'A Network Optimization Approach for Improving Organizational Design', CASOS Working Paper.

Carley, K., Krackhardt, D. (1999) 'A Typology for C2 Measures', The 1999 International Symposium: Command and Control Research and Technology, Newport, RI.

Carley, K., Krackhardt, D. (2001) 'A Typology for Network Measures for Organizations', CASOS Working Paper.

Carley, K., Ren, Y. (2000) 'Team Level Measurements', CASOS Working Paper.

Cassi, L., Zirulia, L. (2004) 'Friend and Rivals: Modelling the Social Relations of Inventors', 4th Proximity Congress: Proximity, Networks and Coordination, June, 17-18, 2004, Marseille, France.

Chajed, D. & P. Udatta (1997) 'Dominant Graphs for Rectilinear Network Design with Barriers', IIE Transactions, April 1997, 29(4): 255-264.

Chen, L., Carley, K. (2003) 'The Impact of Network Topology on the Spread of Anti-Virus

Countermeasures', CASOS Working Paper.

Coleman, J. S. (1973) The Mathematics of Collective Action, Chicago, IL: Aldine.

Davis, D., Carley, K. (2008) 'Clearing the FOG: Fuzzy, Overlapping Groups for Social Networks', *Social Networks*, 30 (3): 201-212.

Diesner, J., Reminga, J., Carley, K., Tsvetovat, M. (2004) 'An Integrated Approach to the Collection and Analysis of Network Data', CASOS Working Paper.

Dombroski, M., Fischbeck, P., Carley, K. (2003) 'Estimating the Shape of Covert Networks', The 8th International Command and Control Research and Technology Symposium: National Defense War College, Washington DC.

Doreian, P., Batagelj, V., Ferligoj, A. (2000) 'Symmetric-Acyclic Decompositions Of Networks', *Journal of Classification*, 17: 3-28.

Emirbayer, Mustafa, Goodwin, Jeff (1994) 'Network Analysis, Culture, the Problem of Agency', *American Journal of Sociology*, 99: 1441-1454.

Everett, M., Borgatti, S. (1998) 'Analyzing Clique Overlap', *Connections*, 21 (1): 49-61.

Everett, M., Borgatti, S. (1999) 'Peripheries of Cohesive Subsets', *Social Networks*, 21: 397.

Fararo, T. J. (1973) Mathematical Sociology: An Introduction to Fundamentals, New York: Wiley.

Frank, Ove (1991) 'Statistical Analysis of Change in Networks', *Statistica Neerlandica*, 3: 283-293.

Frantz, T., Cataldo, M., Carley, K. (2006) 'Given Error: Evidence for the Construction of Confidence Intervals Around Network Measures', International Sunbelt Social Network Conference: April, 24-30, 2006, Vancouver, BC.

Freeman, L. (1977) 'A Set of Measures of Centrality Based on Betweenness', *Sociometry*, 40: 35-40.

Freeman, L. (1979) 'Centrality in Communication Networks: Conceptual Clarification', *Social Networks*, 2: 119-141.

Freeman, L. (1979) 'Centrality in Social Networks: Conceptual Clarification', *Social Networks*, 1: 215-239.

Freeman, L. (1996) 'Some Antecedents of Social Network Analysis', *Connections*, 19: 39-42.

Friedkin, N. E. (1984) 'Structural Cohesion and Equivalence Explanations of Social Homogeneity', *Sociological Methods and Research*, 12: 235-261.

- Galaskiewicz, Joseph (1995) 'The 'New Network Analysis and Its Application to Organizational Theory and Behavior', 19-31, in: Networks in Marketing, Dawn Iacobucci. Thousand Oaks, CA: Sage.
- Gower, J., Rooij, M. (2003) 'A Comparison of the Multidimensional Scaling of Triadic and Dyadic Distances', Journal of Classification, 20: 115-136.
- Graham, J. (2005) 'Dynamic Network Analysis of the Network-Centric Organization: Towards an Understanding of Cognition & Performance', CASOS Working Paper.
- Guimera, R., Sales-Pardo, M., Amaral, L. (2007) 'A Network-Based Method for Target Selection in Metabolic Networks', Bioinformatics, 23 (13): 1616–1622.
- Guimera, R., Sales-Pardo, M., Amaral, L. (2007) 'Module Identification in Bipartite and Directed Networks', Physical Review E, 76 (3): 1-8.
- Harary, F. & Norman, R. (1953) Graph Theory as a Mathematical Model in Social Science. Ann Arbor, MI: University of Michigan Institute of Social Research.
- Harary, F. (1959) 'On the Measurement of Structural Balance', Behavioral Sciences, Oct 1959, 4(4): 316-323.
- Haythornthwaite, C. (1996) 'Social Network Analysis: An Approach and Technique for the Study of Information Exchange', Library and Information Science Research, 18: 323-342.
- Hirshman, B., Carley, K., Kowalchuck, M. (2007) 'Loading Networks in Construct', Institute for Software Research, School of Computer Science, Carnegie Mellon University, CASOS Technical Report.
- Hoffman, A.N., Stearns, T. M., & Shrader, C. B. (1990) 'Structure, Context, and Centrality in Interorganizational Networks', Journal of Business Research, 20: 333-347.
- Hyatt, A., Contractor, N., & Jones, P. M. (1997) 'Computational Organizational Network Modeling: Strategies and an Example', Computational and Mathematical Organizational Theory, 4, 285-300.
- Ibarra, H. (1993) 'Network Centrality, Power, and Innovation Involvement: Determinants of Technical and Administrative Roles', Academy of Management Journal, 36(3): 471-501.
- Kameda, T.; Ohtsubo, Y. & Takezawa, M. (1997) 'Centrality in Socio-Cognitive Networks and Social Influence: An Illustration in a Group Decision-Making Context'. Journal of Personality and Social Psychology, 73: 296-309.
- Knoke, D. & Kuklinski, J. (1982) Network Analysis, Beverly Hills: Sage Publ.
- Krackhardt, David (1994) 'Graph Theoretical Dimensions of Informal Organizations', 89-111, in: Computational Organization Theory, Kathleen M. Carley, Michael J. Prietula.

Hillsdale, NJ: Lawrence Erlbaum.

Krackhardt, David. (1988) 'Predicting with Networks: Non-parametric Multiple Regression Analysis of Dyadic Data', *Social Networks*, 10: 359-369.

Lorrain, F., & White, H. (1971) 'Structural Equivalence of Individuals in Social Networks', *Journal of Mathematical Sociology*, 1: 49-80.

Malin, B., Airoldi, E., Carley, K. (2005) 'A Social Network Analysis Model for Name Disambiguation in Lists', *Journal of Computational and Mathematical Organization Theory*, 11: 119-139.

Malin, B., Carley, K. (2007) 'A Longitudinal Social Network Analysis of the Editorial Boards of Bioinformatics and Medical Informatics Journals', *Journal of the American Medical Informatics Association*, 14: 340-348.

Markovsky, B. (1997) 'Network Games', *Rationality and Society*, 9: 67-90.

Marsden, P. (1990) 'Network Data and Measurement', *Annual Review of Sociology*, 16: 435-463.

McCarty, C., Killworth, P., Bernard, H., Johnsen, E., Shelley, G. (2001) 'Comparing two Methods for Estimating Network Size', *Human Organization*, 60(1): 28-39.

McCulloh, I., Carley, K. (2008) 'Social Network Change Detection', Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report CMU-ISR-08-116.

McCulloh, I., Garcia, G., Tardieu, K., Macgibbon, J., Dye, H., Moores, K., Graham, J. (2007) 'Ikenet: Social Network Analysis of E-Mail Traffic in the Eisenhower Leadership Development Program', Technical Report, No. 1205, Arlington, VA: U.S. Army Research Institute for the Behavioral and Social Sciences.

McCulloh, I., Lospinoso, J., Carley, K. (2007) 'Social Network Probability Mechanics', The 12th International Conference on Applied Mathematics: Applied Mathematics of the World Science Engineering Academy and Society, December, 30-31, 2007, Cairo, Egypt.

McCulloh, I., Webb, M., Carley, K. (2007) 'Social Network Monitoring of Al-Qaeda', *Network Science*, 1: 25-30.

McPherson, J. Miller (1982) 'Hypernetwork Sampling: Duality, Differentiation Among Voluntary Organizations', *Social Networks*, 3: 225-249.

Michaelson, A., & Contractor, N. (1992) 'Comparison of Relational and Positional Predictors of Group Member's Perceptions', *Social Psychology Quarterly*, 55: 300-310.

Mizruchi, M. (1993) 'Cohesion, Equivalence, and Similarity of Behaviour: A Theoretical

- and Empirical Assessment', Social Networks, 15: 275-308.
- Moon, I., Carley, K. (2007) 'Modeling and Simulation of Terrorist Networks in Social and Geospatial Dimensions', IEEE Intelligent Systems, Special issue on Special issue on Social Computing, 22: 40 - 49.
- Moon, I., Carley, K. (2007) 'Self-Organizing Social and Spatial Networks under What-If Scenarios', AAMAS: Honolulu, Hawaii.
- Moon, I., Carley, K., Levis, A. (2008) 'Vulnerability Assessment on Adversarial Organization: Unifying Command and Control Structure Analysis and Social Network Analysis', SIAM International Conference: Data Mining, Workshop on Link Analysis, Counterterrorism and Security, April, 26, 2008, Atlanta, Georgia.
- Moon, I., Kim, E., Carley, K. (2008) 'Automated Influence Network Generation and the Node Parameter Sensitivity Analysis', International Command and Control Research Technology Symposium (ICCRTS'08, DOD CCRP conference): Jun 17-19, 2008, Bellevue, WA.
- Newman, M. (2004) 'Random Graphs as Models of Networks', Santa Fe Working Paper.
- Olson, J., Carley, K. (2008) 'Summarization and Information Loss in Network Analysis', SIAM International Conference: Data Mining, Workshop on Link Analysis, Counterterrorism and Security, April, 26, 2008, Atlanta, Georgia.
- Pattison, Phillipa (1993) Algebraic Models for Social Networks. New York: Cambridge University Press.
- Pixley, J., Butts, C. (2001) 'Analyzing Life Course Patterns with the Interval Graph Approach', CASOS Working Paper.
- Sabidussi, G. (1966) 'The Centrality Index of a Graph', Psychometrika, 31: 581-603.
- Salzano, G., Bourret, C. (2004) 'An Information System Perspective to Analyze the Proximity within Network Organizations. Illustration on the Health Care Domain', 4th Proximity Congress: Proximity, Networks and Coordination, June, 17-18, 2004, Marseille, France.
- Sanil, A., Banks, D., Carley, K. (1995) 'Models for Evolving Fixed Node Networks: Model Fitting and Model Testing', Social Networks, 17: 65-81.
- Sawardecker, E., Sales-Pardo, M., Amaral, L. (2009) 'Detection of Node Group Membership in Networks with Group Overlap', The European Physical Journal B, 67: 277–284.
- Scott, J. (1988) 'Trend Report: Social Network Analysis', Sociology, 22: 109-127.
- Scott, J. (1991) Social Network Analysis, London: Sage Publ.

Simon, P. (2002) ' Structural Network Analysis of Disaster Response', CASOS Working Paper.

Stephenson, Karen; Zelen, Marvin (1989) 'Rethinking Centrality: Methods, Examples', Social Networks, 11: 1-37

Tessone, C., König, M., Zenou, Y. (2009) 'Social Network Evolution Based on Agent Centrality', 6th ESSA (The European Social Simulation Association) Conference: September, 14-18, 2009, Guildford, United Kingdom.

Tichy, N. M., & C Fombrun. (1979) 'Network Analysis in Organizational Settings', Human Relations, 32: 923-965.

Topper, C., Carley, K. (1999) 'A Structural Perspective on the Emergence of Network Organizations', Journal of Mathematical Sociology, 24(1): 67-96.

Tsvetovat, M., Carley, K. (2006) 'Improving Effectiveness of Communications Sampling of Covert Networks', E-Social Science Conference: Manchester, UK.

Tsvetovat, M., Carley, K. (2006) 'On Effectiveness of Wiretap Programs in Mapping Social Networks', SIAM Conference.

Tsvetovat, M., Carley, K., Reminga, J. (2003) 'Dynetml: Interchange Format for Rich Social Network Data', NAACSOS Conference 2003.

Wasserman, S. & Pattison, P. (1996) 'Logit Models and Logistic Regressions for Social Networks: I. An Introduction to Markov Graphs and p\*', Psychometrika, 61: 401-425.

Wasserman, Stanley; Faust, Katherine (1994) Social Network Analysis: Methods, Applications. New York: Cambridge University Press.

White, D., Owen-Smith, J., Moody, J., Powell, W. (2004) 'Networks, Fields and Organizations: Micro-Dynamics, Scale and Cohesive Embeddings', Santa Fe Working Paper.

Yahja, A. (2002) 'Biowar: Simulating Disease Outbreaks Using Social Networks', CASOS Working Paper.

---

Borgatti, Stephen; Everett, Martin; Freeman, Linton (1992) 'UCINET IV Version, 1.0' 'Columbia, SC: Analytic Technologies.

Campos, P. (2008) 'Network Resilience in a Centralized Topology', Working Paper.

Faust, K., Skvoretz, J. (2002) 'Comparing Networks Across Space And Time, Size And Species', Working Paper.

Frantz, T., Carley, K. (2005) 'Relating Network Topology to the Robustness of Centrality Measures', Carnegie Mellon University, School of Computer Science, Institute for Software Research International, Technical Report CMU-ISRI-05-117.

Frantz, T., Carley, K. (2005) 'Treemaps as a Tool for Social Network Analysis', Carnegie Mellon University, School of Computer Science, Institute for Software Research International, Technical Report, CMU-ISRI-05-118.

Frantz, T., Carley, K., Diesner, J. (2005) 'An Automated Methodology for Conducting a Social Network Study of a University', Carnegie Mellon University, School of Computer Science, Institute for Software Research International, Technical Report CMU-ISRI-05-106.

Goodell, A., Brown, J., & Poole, M. S. (1989) Organizational Networks and Climate Perceptions: A Longitudinal Analysis, University of Minnesota.

Karlberg, M. (1999) 'Testing Transitivity In Digraphs ', Working Paper.

Leenders, Roger (1995) 'Structure, Influence: Statistical Models for the Dynamics of Actor Attributes, Network Structure, Their Interdependence. Amsterdam: Thesis Publishers.

Li, L., Alderson, D., Tanaka, R., Doyle, J., Willinger, W. (2005) 'Towards a Theory of Scale-Free Graphs: Definition, Properties, and Implications', Report.

Louie, M., Carley, K. (2007) 'The Role of Dynamic-Network Multi-Agent Models of Socio-Political Systems in Policy', Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISRI-07-102.

McCulloh, I., Webb, M., Carley, K., Horn, D. (2008) ' Change Detection In Social Networks', Technical Report, No. 1235, Arlington, VA: U.S. Army Research Institute for the Behavioral and Social Sciences.

Morais, A. (2008) 'Reflections on Studying Social Structures', Working Paper.

Pattison, P., Robins, G. (2002) 'Neighborhood-Based Models For Social Networks ', Working Paper.

Schreiber, C., Carley, K. (2004) 'Construct - A Multi-Agent Network Model for the Co-Evolution of Agents and Socio-Cultural Environments', Carnegie Mellon University, School of Computer Science, Institute for Software Research International, Technical Report CMU-ISRI-04-109.

Schreiber, C., Carley, K. (2005) 'Ineffective Organizational Practices at NASA: A Dynamic Network Analysis', Carnegie Mellon University, School of Computer Science, Institute for Software Research International, Technical Report, CMU-ISRI-05-135.

Schweinberger, M., Snijders, T. (2003) 'Settings in Social Networks: A Measurement Model', Working Paper.

Tsvetovat, M., Carley, K. (2005) 'Generation of Realistic Social Network Datasets for Testing of Analysis and Simulation Tools', Carnegie Mellon University, School of Computer Science, Institute for Software Research International, Technical Report CMU-ISRI-05-130.

Tsvetovat, M., Carley, K., Diesner, J. (2004) 'Netintel: A Database for Manipulation of Rich Social Network Data', Carnegie Mellon University, School of Computer Science, Institute for Software Research International, Technical Report CMU-ISRI-04-135.

White, D., Harary, F. (2001) 'The Cohesiveness Of Blocks In Social Networks: Node Connectivity And Conditional Density', Working Paper.