

Kathleen Mary Carley

Institute for Software Research¹
Carnegie Mellon University
Pittsburgh, PA 15213
<http://www.casos.cs.cmu.edu/bios/carley/carley.html>

tel: (412) 268-6016
fax: (412) 268-1744
email:kathleen.carley@cs.cmu.edu

EDUCATION

9/1978-6/1984 Ph.D. Harvard University. Sociology Thesis: Consensus Construction
9/1974-6/1978 S.B. Massachusetts Institute of Technology. Political Science
9/1974-6/1978 S.B. Massachusetts Institute of Technology. Economics

PROFESSIONAL EXPERIENCE

REGULAR APPOINTMENTS

8/2002- Professor of Computation, Organization and Society; Appointment in Institute for Software Research International, SCS; Courtesy appointments in SDS, Heinz, GSIA and EPP; Carnegie Mellon University. Pittsburgh, PA 15213
9/1998- 7/2002 Professor of Sociology, Organizations and IT; Appointments in SDS, Heinz, GSIA and EPP; Carnegie Mellon University. Pittsburgh, PA 15213
9/1990-8/1998 Associate Professor of Sociology and Organizations; Carnegie Mellon University. Pittsburgh, PA 15213
9/1984-8/1990 Assistant Professor of Sociology and Information Systems; Carnegie Mellon University. Pittsburgh, PA 15213

OTHER APPOINTMENTS AND POSITIONS

9/1998- Center Director, Center for Computational Analysis of Social and Organizational Systems.
<http://www.casos.cs.cmu.edu/>
2010-2011 Scientific Advisory Board, Aptima
8/1999-8/2000 Institute for Complex Engineered Systems (ICES) – CASOS Lab Director
3/1999-8/1999 Institute for Complex Engineered Systems (ICES) – CASOS Thrust Leader
1/1997 Invited Professor, Universite' Leonardo DaVinci
6/1992-9/1992 Research Faculty, Learning Research and Development Center (LRDC), U. of Pittsburgh. Pittsburgh, PA.
6/1991-9/1991 Research Faculty, LRDC, U. of Pittsburgh. Pittsburgh, PA.
6/1990-9/1990 Research Faculty, LRDC, U. of Pittsburgh. Pittsburgh, PA.
6/1984-8/1984 RA for Prof. Bob Eccles, Harvard Business School. Cambridge, MA.
12/1982-8/1984 Computer and Statistical Consultant, Harvard University. Cambridge, MA.
1/1982-6/1982 Project Director Cambridge-Somerville Sociology Internship Program, Harvard University. Sociology. Cambridge, MA.
9/1979-1/1982 TA for Sociology 156: (Intro. Statistics), Harvard University. Cambridge, MA.
6/1980-10/1984 Software Development and System Management for Prof. James Davis, Harvard University. Sociology. Cambridge, MA.
2/1979-5/1981 Instructor in Applied Mathematics, Lowell Institute. Cambridge, MA.
6/1978-8/1978 Research Assistant Prof. Hayward Alker, MIT: Political Science. Cambridge, MA.
2/1977-5/1978 Research Assistant Bloomfield and Alker, MIT: Political Science. Cambridge, MA.
6/1975-10/1976 Research Assistant Prof. Bloomfield, MIT: Political Science. Cambridge, MA.

CONSULTING

2016- Drexel University
2014 Blue Shield
2011 Centra

¹ Toward the end of 2007 the Institute for Software Research International, a department in the School of Computer Science at Carnegie Mellon University changed its name to Institute for Software Research.

K.M. Carley December 12, 2017

2009-2017	Columbia University
2005-2006	Global Info Tek, Inc.
2005-2006	New York School of Medicine
2005	DyNaTech
2004-2007	HumRo
2003-2004	ALPHATECH (now BAE)
2003	Sandia
2002-2003	Booze Allen Hamilton
2002-2004	Nursing School, ASU
1998-2005,2009-10	Aptima
3/2000	Merrill Lynch
10/1998-12/1998	Kaufmann Foundation
3-7/1997,2003-06	Charles River Analytics
6/1995,5/1998	Mellon Bank
5-7/1994,10-12/1994	American Red Cross — Initial Response Crisis Management Training Seminar
5/1989-2/1990	Center for Strategic Decision Research — Org. Structure for R&D Funding
4/1987-10/1987	Thomson, Rhodes and Cowie, Pittsburgh, PA. — IS
6/1982-8/1984	School for English as a Foreign Language, Harvard University — IS
6/1983	Metametrics Corporation, Carlisle, MA. — Statistical Consultant
12/1981-8/1984	Harvard University — Programmer/Consultant

INTERESTS

Kathleen M. Carley's research combines cognitive science, social networks and computer science to address complex social and organizational problems. Her specific research areas are social network analysis, dynamic network analysis, agent-based modeling, computational social and organization theory, adaptation and evolution, social network text mining, cyber security and the impact of telecommunication technologies and policy on communication, information diffusion, disease contagion and response within and among groups particularly in disaster or crisis situations. She and members of her center have developed novel tools and technologies for analyzing large-scale geo-centric dynamic-networks and various multi-agent simulation systems. These tools include: ORA, a statistical and graphical toolkit for analyzing and visualizing multi-dimensional networks and time-varying networks; AutoMap, a text-mining system for extracting semantic networks from texts and then cross-classifying them using an organizational ontology into the underlying social, knowledge, resource and task networks; CEMAP, a system for extracting networks from email and blogs; and SORASCS, a service oriented plus architecture for designing and sharing workflows in the human socio-cultural space. Her simulation models meld multi-agent technology with network dynamics and empirical data. Three of the large-scale multi-agent network models she and the CASOS group have developed are: BioWar, a city-scale dynamic-network agent-based model for understanding the spread of disease and illness due to natural epidemics, chemical spills and weaponized biological attacks; Construct, an agent-based dynamic-network based model for assessing network evolution and the diffusion of information and beliefs under diverse socio-demographic and media environments; and RTE, a model for examining state failure and the escalation of conflict at the city, state, nation and international as changes occur within and among red, blue and green forces. Dr. Carley is the director of the center for Computational Analysis of Social and Organizational Systems (CASOS) which has over 25 members, both students and research staff. She is the founding co-editor of the journal Computational Organization Theory and has co-edited several books in the computational organizations and dynamic network area.

HONORS AND PROFESSIONAL RECOGNITION

10/27/2017	NSC working group
10/25/2017	Briefing to the NSC - Present and Future Influences of Artificial Intelligence and Cyber Warfare
2017-2018	Conference Chair, SBP-BRiMS 2018
2017-2018	Member of the NAS/NRC Committee on Decadel Survey
2016-2017	Conference Chair, SBP-BRiMS 2017
2015-2016	Conference Chair, SBP-BRiMS 2016
2015-2016	Member of the NAS/NRC Committee on Models of the World for the National Geospatial-Intelligence Agency
2014	Allen Newell Award for Research Excellence - "For the creation of empirical methods to

- rigorously establish the impact of human communication on software quality.”
- 2014-2017 Member of the NAS ARL Review Panel
- 2013 IEEE Fellow
- 2012-2013 Member of the NAS/NRC Committee on Digital Math Library
- 2012-2014 DHS Homeland Security Science and Technology Advisory Committee, HSSTAC, SGE
- 2012 Kenneth Joseph, Chun How Tan and Kathleen M. Carley, 2012, “Beyond 'Local', 'Categories' and 'Friends': Clustering foursquare Users Using Latent "Topics"” 4th International Workshop on Location-Based Social Networks (LBSN 2012) at UBICOM Sept 8, 2012 - Pittsburgh, PA. Best Paper Award
- 2011 Senior Member IEEE
- 2011 Kathleen M. Carley, Simmel Award, International Network for Social Network Analysis, February 2011, St. Petersburg, FL.
- 2011 Geoffrey P. Morgan and Kathleen M. Carley, "Exploring the impact of a stochastic hiring function in dynamic organizations," In proceedings of the Behavioral Representation in Modeling and Simulation (BRIMS) Conference, Sundance, UT, March 23, 2011, Pp. 106-113. Best Student Paper award.
- 2010-2013 Member of the NAS/NRC Committee on NGA Workforce Assessment
- 2010 Patrick Wagstrom, James D. Herbsleb and Kathleen M. Carley, “Communication, Team Performance and the Individual: Bridging Technical Dependencies,” Academy of Management Conference, Montreal, Canada, August 2010. Best Paper Award.
- 2009-2013 Member of the NAS/NRC Committee on Large Scale Data Analysis
- 2009 Terrill L. Frantz and Kathleen M. Carley, “Toward A Confidence Estimate for The Most-Central-Actor Finding,” In proceedings of the Academy of Management Annual Conference, Chicago, IL, August 7-11, 2011. Sage Publications/RM division Best Student Paper.
- 2008 Marcelo Cataldo, Jim D. Herbsleb and Kathleen M. Carley, “Socio-Technical Congruence: A Framework for Assessing the Impact of Technical and Work Dependencies on Software Development Productivity,” In Proceedings of the Second ACM-IEEE International Symposium on Empirical Software Engineering and Measurement, New York, NY: ACM, Pp. 2-11. ACM Distinguished Paper Award.
- 2008 George B. Davis, Jamie Olson and Kathleen M. Carley, “Unsupervised Plan Detection with Factor Graphs,” In proceedings of Sensor-KDD, Las Vegas, NV, August 24-27, 2008. Best Paper Award.
- 2007-2008 Task Force Member for Defense Science Board: Human Behavioral Modeling
- 2007-2008 Member of the GIST Panel on Adversary Modeling
- 2006-2008 Member of the NAS/NRC Committee on Behavioral Modeling and Simulation: From Individuals to Societies
- 2007 Jana Diesner and Kathleen M. Carley, “Conditional Random Fields for Entity Extraction and Ontological Text Coding,” In proceedings of the North American Association for Computational Social and Organizational Science (NAACSOS) Conference, Atlanta, GA, July 2007. Best student paper award.
- 2006 Member of the NAS/NRC Committee on Modeling Community Containment for Pandemic Influenza: A Letter Report
- 2006 Marcelo Cataldo, Patrick Wagstrom, James Herbsleb and Kathleen M. Carley, "Identification of Coordination Requirements: Implications for the design of collaboration and awareness tools," Computer Supported Cooperative Work, Banff, Alberta, Canada, Pp. 353- 362. Best Paper CSCW 2006, Awarded by ACM SIGCHI.
- 2005-2006 Member of the NAS/NRC Committee on Modeling and Simulation for Defense Transformation
- 2005-2006 Member of the NAS/NRC Committee on Defense Modeling and Simulation
- 2002-2004 President of the North American Association of Computational Social and Organizational Systems
- 2001 Lifetime Achievement Award from the Sociology and Computers Section of the ASA
- 1999-2000 President for ASA Mathematical Sociology Section
- 1998-1999 President Elect for ASA Mathematical Sociology Section
- 1996-1998 Member NSF Advisory Panel for Sociology
- 1996-1998 Member of the NAS/NRC Committee on Human Behavior and Military Simulation
- 1996-1997 Member NSF ITO Steering Committee
- 1994-1995 President for ASA Micro-computing Section (renamed Computers and Sociology)
- 1993-1994 President Elect for ASA Micro-computing Section (renamed Computers and Sociology)

K.M. Carley December 12, 2017

- 1993-1994 Elected as Newsletter Editor for TIMS College on Organizations.
1993-1994 Elected to the Council of the SSCA.
1992-1993 Elected to the Council of the ASA Micro-computing Section
1990 Invited by the American Sociological Association to present a didactic seminar at the annual meetings. "Computer Analysis of Qualitative Data". ASA meetings: Washington DC.
1989 Invited by the American Sociological Association to present a didactic seminar at the annual meetings. "Computer Analysis of Qualitative Data". ASA meetings: San Francisco, CA.
1989 Certificate from the Social Sciences Applications Special Interest Group of the Operations Research Society of America for "Innovative Management Theory and Its Applications".
1982-1983 Alternate for Graduate School of Arts and Sciences merit fellowship - Harvard University.
1982 CUE Guide Citation for teaching Sociology 156.
1981-1982 Nominated by Harvard University Sociology Department for Graduate School Arts and Sciences merit fellowship. Class Rank 1.
1980 CUE Guide Citation for teaching Sociology 156.
1978 American Assoc. of University Women National Fellowship graduate study at MIT, Polit. Science

BOOKS

- Il-Chul Moon, Kathleen M. Carley, T.G. Kim. 2013, *Modeling and Simulating Command and Control for Organizations Under Extreme Situations*. Springer.
- Ronald Breiger, Kathleen M. Carley and Philippa Pattison (Eds.), 2003, *Dynamic Social Network Modeling and Analysis: Workshop Summary and Papers*. Committee on Human Factors, Board on Behavioral, Cognitive and Sensory Sciences. Washington, DC: National Academy Press.
- Zhiang Lin and Kathleen M. Carley, 2003, *Designing Stress Resistant Organizations: Computational Theorizing and Crisis Applications*, Boston, MA: Kluwer.
- Michael J. Prietula, Kathleen M. Carley and Les Gasser (Eds.), 1998, *Simulating Organizations: Computational Models of Institutions and Groups*, Menlo Park, CA: AAAI Press / The MIT Press.
- Robert W. Lawler and Kathleen M. Carley, 1996, *Advanced Qualitative Methods in the Study of Human Behavior: Case Study and Computing*, Norwood, NJ: Ablex.
- Kathleen M. Carley and Michael J. Prietula (Eds.), 1994, *Computational Organization Theory*, Hillsdale, NJ: Lawrence Erlbaum Associates.
- David S. Kaufer and Kathleen M. Carley, 1993, *Communication at a Distance: The Effect of Print on Socio-Cultural Organization and Change*, Hillsdale, NJ: Lawrence Erlbaum Associates.

MONOGRAPHS

- Kathleen M. Carley (panel member), 2016, *From Maps to Models: Augmenting the Nation's Geospatial Intelligence Capabilities*, National Research Council. The National Academies Press. Washington D.C.
- Kathleen M. Carley (panel member), 2014, *Developing a 21st Century Global Library for Mathematics Research*, National Research Council. The National Academies Press. Washington D.C.
- Kathleen M. Carley (panel member), 2013, *Frontiers in Massive Data Analysis*, National Research Council. The National Academies Press. Washington D.C.
- Kathleen M. Carley (panel member), 2013, *Future U.S. Workforce for Geospatial Intelligence*, National Research Council. The National Academies Press. Washington D.C.
- Kathleen M. Carley (panel member), 2008, *Behavioral Modeling and Simulation, From Individuals to Societies*, National Research Council. The National Academies Press, Washington, DC.
- Kathleen M. Carley (panel member), 2006, *Modeling Community Containment for Pandemic Influenza: A Letter Report*, National Research Council. The National Academy Press. Washington, D.C.
- Kathleen M. Carley (panel member), 2006, *Defense Modeling, Simulation and Analysis: Meeting the Challenge*, National Research Council. The National Academy Press. Washington, D.C.
- Kathleen M. Carley (panel member), 1998, *Modeling Human and Organizational Behavior: Application to Military Simulations*, Final Report, Richard W. Pew and Anne S. Mavor, editors. National Research Council, National Academy Press. Washington D.C., Available from:
<http://www.nap.edu/readingroom/enter2.cgi?0309060966.html>

K.M. Carley December 12, 2017

Kathleen M. Carley (panel member), 1997, *Representing Human Behavior in Military Simulations*, Interim Report, Richard W. Pew and Anne S. Mavavor, editors. National Research Council, National Academy Press. Washington D.C.

ARTICLES: ORGANIZATIONAL THEORY

REFEREED PUBLICATIONS

- Geoffrey B. Dobson, Timothy J. Shimeall and Kathleen M. Carley, 2017, Towards Network Science Enhanced Cyber Situational Awareness. *International Journal on Cyber Situational Awareness*, Vol. 1, No. 1, pp11-30. DOI 10.22619/IJCSA.2017.100112
- Elizabeth McGhee Hassrick, Paul Shattuck and Kathleen M. Carley, 2017-forthcoming, Collaborative Support for Young Adults with ASD: Network Measures to Inform School to Work Transitions, *Pediatrics*
- Jacqueline A. Merrill, Barbara Sheehan, Kathleen M. Carley, P.D. Stetson, 2015, "Transition Networks in a Cohort of Patients with Congestive Heart Failure. A novel application of informatics methods to inform care coordination." *Applied Clinical Informatics*, 6(3): 548-64. DOI: [10.4338/ACI-2015-02-RA-0021](https://doi.org/10.4338/ACI-2015-02-RA-0021)
- Kathleen M. Carley, 2015-forthcoming, "Crisis Mapping: Big Data from a Dynamic Network Analytic Perspective," *Journal of Organization Design*.
- Geoffrey M. Morgan, Kenneth Joseph, and Kathleen M. Carley, 2015, Group-Based Transactive Memory to implement Computationally-Plausible Social Cognition in Agents. BRiMS'15, Washington D.C.
- Judith Gelernter and Kathleen M. Carley, 2015, Spatiotemporal Network Analysis and Visualization, *International Journal of Applied Geospatial Research (IJAGR)*, 6(2):77-97. DOI: [10.4018/ijagr.2015040105](https://doi.org/10.4018/ijagr.2015040105).
- Bizhan Jamshidnezhad and Kathleen M. Carley, 2014, Agent-based modeling of quality management effects on organizational productivity, *Journal of Simulation*, 9(1), 73-82. DOI: [10.1057/jos.2014.26](https://doi.org/10.1057/jos.2014.26)
- Gregory L. Alexander, Kaylan S. Pasupathy, Linsey M Steege, E. Bradley Strecker, and Kathleen M. Carley, 2014, Multi-disciplinary communication networks for skin risk assessment in nursing homes with high IT sophistication, *International Journal of Medical Informatics*, 8:7 pp. 507-517. Available from DOI: [10.1016/j.ijmedinf.2014.05.001](https://doi.org/10.1016/j.ijmedinf.2014.05.001)
- Michael J. Lanham, Geoffrey P. Morgan, and Kathleen M. Carley. 2014, "Social Network Modeling and Agent-Based Simulation in Support of Crisis De-escalation." *IEEE Transactions on Systems, Man, and Cybernetics: Systems*. 44(1): 103-110. DOI: [10.1109/TSMCC.2012.2230255](https://doi.org/10.1109/TSMCC.2012.2230255)
- Geoffrey Morgan and Kathleen M. Carley, 2014, "Comparing hiring strategies in a committee with similarity biases." *Computational & Mathematical Organization Theory*, 20(1), 1-19. DOI: [10.1007/s10588-012-9130-1](https://doi.org/10.1007/s10588-012-9130-1).
- XC Wei, Bin Hu, and Kathleen M. Carley. 2013, "Combination of Empirical Study and Qualitative Simulation for Optimizing Customer's Mobile Banking Adoption Behavior." *JASSS*, 16(3). DOI: [10.18564/jasss.2222](https://doi.org/10.18564/jasss.2222).
- Jun Ai, Hai Zhao, Zhan Su, and Kathleen M. Carley. 2013, "Evolution of IPv6 Internet Topology with Unusual Sudden Changes," *Chinese Physics B*, 22(7). Chinese Physical Society. DOI: [10.1109/WiCOM.2012.6478734](https://doi.org/10.1109/WiCOM.2012.6478734).
- Jacqueline Merrill, Mark G. Orr, Christie Y. Jeon, Rosalind V. Wilson, Jonathan Storricks and Kathleen M. Carley, 2012, "Topology of Local Health Officials' Advice Networks: Mind the Gaps," *Journal of Public Health Management Practice*, 18(6): 602-608. DOI: [10.1097/PHH.0b013e31825d20ac](https://doi.org/10.1097/PHH.0b013e31825d20ac).
- Judith A. Effken, Sheila Gephart and Kathleen M. Carley, 2013, "Using ORA to Assess the Relationship of Handoffs to Quality and Safety Outcomes," *CIN: Computers, Informatics, Nursing*. 31(1): 36-44. DOI: [10.1097/NXN.0b013e3182701082](https://doi.org/10.1097/NXN.0b013e3182701082)
- Craig Schreiber and Kathleen M. Carley, 2013, "Validating Agent Interactions in Construct Against Empirical Communication Networks Using the Calibrated Grounding Technique," *IEEE Transactions on Systems, Man and Cybernetics-Part A*, 43(1): 208-214. DOI: [10.1109/TSMCA.2012.2192104](https://doi.org/10.1109/TSMCA.2012.2192104)
- Judith A. Effken, Kathleen M. Carley, Ju-Sung Lee, Barbara B. Brewer and Joyce A. Verran, 2012, "Simulating Nursing Unit Performance with OrgAhead: Strengths and Challenges," *CIN: Computers, Informatics, Nursing*, 30(11): 620-6. DOI: [10.1097/NXN.0b013e318261f1bb](https://doi.org/10.1097/NXN.0b013e318261f1bb)
- Jacqueline A. Merrill, Kathleen M. Carley, Mark G. Orr, Christie Y. Jeon and Jonathan Storricks, 2012, "Patterns of Interaction Among Local Public Health Officials and the Adoption of Recommended Practices," *Frontiers in Public Health Services and Systems Research*, 1:1, Article 6. Available from: <http://uknowledge.uky.edu/frontiersinphssr/vol1/iss1/6>

- Judith A. Effken and Kathleen M. Carley, 2011, "Exploring Groups with ORA". In Proceedings Western Institute of Nursing Communicating Nursing Research Conference 44, 114.
- Michael E. Bales, Stephen B. Johnson, Jonathan W. Keeling, Kathleen M. Carley, Frank Kunkel and Jacqueline A. Merrill, 2011, "Evolution of Coauthorship in Public Health Systems and Services Research," *American Journal of Preventive Medicine*, 41(1): 112-117. DOI: [10.1016/j.amepre.2011.03.018](https://doi.org/10.1016/j.amepre.2011.03.018)
- Judith A. Effken, Barbara B. Brewer, Melanie D. Logue, Sheila M. Gephart and Joyce A. Verran, 2011, "Using Cognitive Work Analysis to Fit Decision Support Tools to Nurse Managers' Work Flow," *International Journal of Medical Informatics*, 80(10): 698-707. DOI: [10.1016/j.ijmedinf.2011.07.003](https://doi.org/10.1016/j.ijmedinf.2011.07.003)
- Judith A. Effken, Kathleen M. Carley, Sheila Gephart, Joyce A. Verran, Denise Bianchi, Jeff Reminga and Barbara B. Brewer, 2011, "Using ORA to Explore the Relationship of Nursing Unit Communication to Patient Safety and Quality Outcomes," *International Journal of Medical Informatics*, 80(7): 507-517. DOI: [10.1016/j.ijmedinf.2011.03.015](https://doi.org/10.1016/j.ijmedinf.2011.03.015)
- Matthias Meyer, Michael A. Zaggl and Kathleen M. Carley, 2011, "Measuring CMOT's Intellectual Structure and Its Development," *Computational & Mathematical Organization Theory*, 17(1): 1-34. DOI: [10.1007/s10588-010-9076-0](https://doi.org/10.1007/s10588-010-9076-0)
- Jacqueline Merrill, Jonathan W. Keeling, Kathleen M. Carley, 2010, "A Comparative Study of 11 Local Health Department Organizational Networks," *Journal of Public Health Management and Practice: JPHMP* 2010; 16.6:564-76. Available from: http://journals.lww.com/jphmp/Abstract/2010/11000/A_Comparative_Study_of_11_Local_Health_Department.12.aspx
- Patrick Wagstrom, James D. Herbsleb and Kathleen M. Carley, 2010, "Communication, Team Performance and the Individual: Bridging Technical Dependencies," Academy of Management Conference, Montreal, Canada, August 2010. Best Paper Award.
- J. Wu, B. Hu, Y. Zhang, C. Spence, S.B. Hall and Kathleen M. Carley, 2009, An agent-based simulation study for exploring organizational adaptation, *Simulation*, 85(6): 397-413. DOI: 10.1177/0037549709105267
- Jacqueline Merrill, Michael Caldwell, Maxine L Rockoff, Kristine Gebbie, Kathleen M. Carley and Suzanne Bakken, 2008, "Findings from an Organizational Network Analysis to Support Local Public Health Management," *Journal of Public Urban Health*, 85(4): 572-584. Available from: <http://www.springerlink.com/content/613k7446u8886452/>.
- Carter T. Butts and Kathleen M. Carley, 2007, "Structural Change and Homeostasis in Organizations: A Decision-Theoretic Approach", *Journal of Mathematical Sociology*, 31(4): 295 - 321. DOI: [10.1080/00222500701542517](https://doi.org/10.1080/00222500701542517)
- Kathleen M. Carley, 2006, Destabilization of Covert Networks, *Computational & Mathematical Organization Theory*, 12(1): 51-65. To be reprinted in "Applications of Social Network Analysis" edited by Peter J. Carrington.
- Yuqing Ren, Kathleen M. Carley and Linda Argote, 2006, "The Contingent Effects of Transactive Memory: When Is It More Beneficial to Know What Others Know?," *Management Science*, 52(5): 671-682. DOI: [10.1287/mnsc.1050.0496](https://doi.org/10.1287/mnsc.1050.0496)
- Michael Ashworth and Kathleen M. Carley, 2006, "Who You Know vs. What You Know: The Impact of Social Position and Knowledge on Team Performance," *Journal of Mathematical Sociology*, 30(1): 43-75. DOI: [10.1080/00222500500323101](https://doi.org/10.1080/00222500500323101)
- Marcelo Cataldo, Patrick Wagstrom, James Herbsleb and Kathleen M. Carley, 2006, "Identification of Coordination Requirements: Implications for the Design of Collaboration and Awareness Tools," Computer Supported Cooperative Work, Banff, Alberta, Canada, 2006: 353 - 362. Available from: <http://delivery.acm.org/10.1145/1190000/1180929/p353-cataldo.pdf?key1=1180929&key2=6491909811&coll=GUIDE&dl=GUIDE&CFID=34171964&CFTOKEN=77758590>. Best Paper CSCW 2006, Awarded by ACM SIGCHI.
- Zhiang Lin, Xia Zhao, Kiran Ismail and Kathleen M. Carley, 2006, "Organizational Design and Restructuring in Response to Crises: Lessons from Computational Modeling and Real World Cases," *Organizational Science*, 17(5): 598-618. DOI: [10.1287/orsc.1060.0210](https://doi.org/10.1287/orsc.1060.0210)
- Jacqueline Merrill, Suzanne Bakken, Maxine Rockoff, Kristine Gebbie, Kathleen M. Carley, 2006, "Description of a Method to Support Public Health Information Management: Organizational Network Analysis," *Journal of Biomedical Informatics*, 40(4): 422 - 428. DOI: [10.1016/j.jbi.2006.09.004](https://doi.org/10.1016/j.jbi.2006.09.004)

- Il-Chul Moon and Kathleen M. Carley, 2006, "Estimating the Near-term Changes of an Organization with Simulations," In proceedings of AAAI Fall Symposium, pp 111-118, Arlington, VA, Oct 12-15, 2006.
- Yuqing Ren and Kathleen M. Carley, 2006, "The Contingent Effects of Transactive Memory: When Is It More Beneficial to Know What Others Know?," *Management Science*, 52(5): 671-682. DOI: [10.1287/mnsc.1050.0496](https://doi.org/10.1287/mnsc.1050.0496)
- Craig Schreiber and Kathleen M. Carley, 2006, "Leadership Style as an Enabler of Organizational Complex Functioning," *E:CO* 8(4): 45-60. Available from: http://emergentpublications.com/ECO/issue_contents.aspx?Volume=8&Issue=4 & Reprinted in *Complex Systems Leadership Theory*, Hazy, J. K., Goldstein, J. A. & Lichtenstein, B. B. (Eds.) Mansfield, MA: ISCE Publishers, Ch. 6: 227 – 246.
- Kathleen M. Carley, 2005, "Organizational Design and Assessment in Cyberspace," in *Organizational Simulation* William B. Rouse, Kenneth R. Boff (Eds.), John Wiley Sons Inc., Hoboken, New Jersey.
- Jana Diesner, Terrill Frantz and Kathleen M. Carley, 2005, "Communication Networks from the Enron Email Corpus: It's Always About the People. Enron is no Different," *Computational and Mathematical Organization Theory*, 11.3: 201 – 228. DOI: [10.1007/s10588-005-5377-0](https://doi.org/10.1007/s10588-005-5377-0)
- Judith A. Effken, Barbara B. Brewer, Anita Patil, Gerri S. Lamb, Joyce A. Verran and Kathleen M. Carley, 2005, "Using OrgAhead, a Computational Modeling Program, to Improve Patient Care Unit Safety and Quality outcomes," *International Journal of Medical Informatics*, 74(7-8): 605-613. DOI: [10.1016/j.ijmedinf.2005.02.003](https://doi.org/10.1016/j.ijmedinf.2005.02.003)
- Manju K. Ahuja, Dennis F. Galletta and Kathleen M. Carley, 2003, "Individual Centrality and Performance in Virtual R&D Groups: An Empirical Study," *Management Science*, 49(1): 21-38, DOI: [10.1287/mnsc.49.1.21.12756](https://doi.org/10.1287/mnsc.49.1.21.12756)
- Kathleen M. Carley, 2003, "Computational Organizational Science and Organizational Engineering," *Simulation Modeling Practice and Theory*, 10(5-7): 253-269. DOI: [10.1016/S1569-190X\(02\)00119-3](https://doi.org/10.1016/S1569-190X(02)00119-3)
- Judith A. Effken, Barbara B. Brewer, Anita Patil, Gerri S. Lamb, Joyce A. Verran and Kathleen M. Carley, 2003, "Using computational modeling to transform nursing data into actionable information," *Journal of Biomedical Informatics*, 36(4-5): 351-361. DOI: [10.1016/j.jbi.2003.09.018](https://doi.org/10.1016/j.jbi.2003.09.018)
- Maksim Tsvetovat and Kathleen M. Carley, 2002, "Emergent Specializations in a Commodity Market: A Multi-Agent Model" *Journal of Computational and Mathematical Organization Theory*, 8(3): 221-234. - Graduate Student Best Paper Award, CASOS 2001 Conference. DOI: [10.1023/A:1020719614091](https://doi.org/10.1023/A:1020719614091)
- Kathleen M. Carley, 2000, "Computational Analysis of Social and Organizational Systems," *Organizational Science*, 34(2): 4-10. Hakuto-Shobo Pub. Co., Tokyo Japan. ISSN 0286-9713, Printed in Japanese.
- Ruth Cohen, Kathleen M. Carley, John R. Harrald and William A. Wallace, 2000, "Emotions in Crisis Management: An Analysis of Organizational Response to Two Natural Disasters." *International Journal of Technology Management*, Special Issue on Public Policy Engineering Management; Guest Editor G. Beroggi. 19(3-5): 313-335. DOI: [10.1504/IJTM.2000.002817](https://doi.org/10.1504/IJTM.2000.002817)
- Pamela Hinds, Kathleen M. Carley, David Krackhardt and Doug Wholey, 2000. "Choosing Workgroup Members: The Balance of Similarity, Competence and Familiarity," *Organizational Behavior and Human Decision Making Processes*, 81(2): 226-251. DOI: [10.1006/obhd.1999.2875](https://doi.org/10.1006/obhd.1999.2875)
- Manju Ahuja and Kathleen M. Carley, 1999, "Network Structure in Virtual Organizations," joint issue of *Organization Science* Nov/Dec 1999 and *Journal of Computer-Mediated Communication* 3/4 1998, Available from: <http://jcmc.indiana.edu/vol3/issue4/ahuja.html>, published electronically.
- Michael Prietula and Kathleen M. Carley, 1999, "Exploring the Effects of Agent Trust and Benevolence in a Simulated Organizational Task," *Applied Artificial Intelligence*, 13(3): 321-338. DOI: [10.1080/088395199117441](https://doi.org/10.1080/088395199117441)
- Curtis M. Topper and Kathleen M. Carley, 1999, "A Structural Perspective on the Emergence of Network Organizations." *Journal of Mathematical Sociology*, 24(1): 67-96. DOI: [10.1080/0022250X.1999.9990229](https://doi.org/10.1080/0022250X.1999.9990229)
- Kathleen M. Carley, Michael J. Prietula and Zhiang Lin, 1998, "Design versus Cognition: The Interaction of Agent Cognition and Organizational Design on Organizational Performance," *Journal of Artificial Societies and Social Simulation*, 1(3): 1-19. 30 June 1998. Available from: <http://jasss.soc.surrey.ac.uk/1/3/4.html>
- Kathleen M. Carley, 1998, "Organizational Adaptation," *Annals of Operations Research*, 75: 25-47. DOI: [10.1023/A:1018963630536](https://doi.org/10.1023/A:1018963630536)

- Ruth Cohen, Laurie Waisel, Kathleen M. Carley and William A. Wallace, 1998, "The Pothole Lake Fire: An Analysis of Emotion in a Successful Emergency Response," *Safety Science*, 30(1-2): 183-207. Special Issue on The International Emergency Management Society Conference, Guest Editor G. Beroggi. DOI: [10.1016/S0925-7535\(98\)00047-2](https://doi.org/10.1016/S0925-7535(98)00047-2)
- Kathleen M. Carley and John Harrald, 1997, "Organizational Learning Under Fire: Theory and Practice," *American Behavioral Scientist*, 40(3): 310-332. DOI: [10.1177/0002764297040003007](https://doi.org/10.1177/0002764297040003007)
- Kathleen M. Carley and Zhiang Lin, 1997, "A Theoretical Study of Organizational Performance under Information Distortion," *Management Science*, 43(7): 976-997. DOI: [10.1287/mnsc.43.7.976](https://doi.org/10.1287/mnsc.43.7.976)
- Zhiang Lin and Kathleen M. Carley, 1997, "Organizational Decision Making and Error in a Dynamic Task Environment," *Journal of Mathematical Sociology*, 22.2:125-150. DOI: [10.1080/0022250X.1997.9990198](https://doi.org/10.1080/0022250X.1997.9990198)
- Zhiang Lin and Kathleen M. Carley, 1997, "Organizational Response: The Cost Performance Tradeoff," *Management Science*, 43.2: 217-234. DOI: [10.1287/mnsc.43.2.217](https://doi.org/10.1287/mnsc.43.2.217)
- Kathleen M. Carley, 1996, "A Comparison of Artificial and Human Organizations," *Journal of Economic Behavior and Organization*, 31.2:175-191. DOI: [10.1016/S0167-2681\(96\)00896-7](https://doi.org/10.1016/S0167-2681(96)00896-7)
- Kathleen M. Carley and David M. Svoboda, 1996, "Modeling Organizational Adaptation as a Simulated Annealing Process," *Sociological Methods and Research*, 25(1): 138-168. DOI: [10.1177/0049124196025001005](https://doi.org/10.1177/0049124196025001005)
- Kathleen M. Carley, 1995, "Computational and Mathematical Organization Theory: Perspective and Directions," *Computational and Mathematical Organization Theory*, 1(1): 39-56. DOI: [10.1007/BF01307827](https://doi.org/10.1007/BF01307827)
- Kathleen M. Carley and Zhiang Lin, 1995, "Organizational Designs Suited to High Performance Under Stress," *IEEE - Transactions on Systems Man and Cybernetics*, 25(1): 221-230. Available from: <http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=00364841>
- Zhiang Lin and Kathleen M. Carley, 1995, "DYCORP: A Computational Framework for Examining Organizational Performance Under Dynamic Conditions," *Journal of Mathematical Sociology*, 20(2-3): 193-218. DOI: [10.1080/0022250X.1995.9990162](https://doi.org/10.1080/0022250X.1995.9990162)
- Mei Ye and Kathleen M. Carley, 1995, "Radar-Soar: Towards An Artificial Organization Composed of Intelligent Agents," *Journal of Mathematical Sociology*, 20(2-3): 219-246. DOI: [10.1080/0022250X.1995.9990163](https://doi.org/10.1080/0022250X.1995.9990163)
- Kathleen M. Carley, 1994, "Sociology: Computational Organization Theory," *Social Science Computer Review*, 12(4): 611-624. DOI: [10.1177/089443939401200410](https://doi.org/10.1177/089443939401200410)
- Michael J. Prietula and Kathleen M. Carley, 1994, "Computational Organization Theory: Autonomous Agents and Emergent Behavior," *Journal of Organizational Computing*, 41(1): 41-83. DOI: [10.1080/10919399409540216](https://doi.org/10.1080/10919399409540216)
- Zhiang Lin and Kathleen M. Carley, 1993, "Proactive or Reactive: An Analysis of the Effect of Agent Style on Organizational Decision Making Performance," *International Journal of Intelligent Systems in Accounting, Finance and Management*, 2(4): 271-288.
- Kathleen M. Carley, 1992, "Organizational Learning and Personnel Turnover," *Organization Science*, 3(1): 20-46. Reprinted in *Organizational Learning*, edited by Michael D. Cohen and Lee S. Sproull (Eds.), 1996, Thousand Oaks, CA: Sage. DOI: [10.1287/orsc.3.1.20](https://doi.org/10.1287/orsc.3.1.20)
- Kathleen M. Carley, 1991, "Designing Organizational Structures to Cope with Communication Breakdowns: A Simulation Model," *Industrial Crisis Quarterly*, 5: 19-57.

CHAPTERS IN EDITED VOLUMES AND PROCEEDINGS

- Geoffrey Dobson and Kathleen M. Carley, 2017, "Cyber-FIT: An Agent-Based Modelling Approach to Simulating Cyber Warfare." In *Proceedings of the International Conference SBP-BRiMS 2017*, Dongwon Lee, YuRu Lin, Robert Thompson and Nathaniel Osgood (Eds.) July 5-8, 2017 Washington DC, Springer.
- Geoffrey P. Morgan and Kathleen M. Carley, 2016, "An Agent-Based Framework for Active Multi-Level Modeling of Organizations," In *Proceedings of the International Conference SBP-BRiMS 2016*, Kevin S. Xu, David Reitter, Dongwon Lee and Nathaniel Osgood (Eds.) June 28-July 1, 2016 Washington DC, Springer, DOI: [10.1007/978-3-319-39931-7](https://doi.org/10.1007/978-3-319-39931-7).
- Kenneth Joseph, Wei Wei and Kathleen M. Carley, 2013, "An agent-based model for simultaneous phone and SMS traffic over time." In *proceedings of 6th International Conference on Social Computing, Behavioral-Cultural Modeling and Prediction*, SBP 2013; Washington, DC; United States; 2 April 2013 through 5 April 2013, Lecture Notes in Computer Science, 7812: 65-74, DOI: [10.1007/978-3-642-37210-0_8](https://doi.org/10.1007/978-3-642-37210-0_8).

- Terrill L. Frantz and Kathleen M. Carley, 2013, "The Effects of Legacy Organization Culture on Post-merger Integration," *Nonlinear dynamics, psychology, and life sciences Symposium Proceedings*, January 2013, 17(1): 107-132.
- Li Jiang, Kathleen M. Carley and Armin Eberlein, 2012, "Assessing Team Performance from a Socio-technical Congruence Perspective," In proceedings of the International Conference on Software and System Process (ICSSP) 2012, Zurich, Switzerland, June 2-3, 2012, pp. 160-169. DOI: [10.1109/ICSSP.2012.6225961](https://doi.org/10.1109/ICSSP.2012.6225961).
- Geoffrey Morgan and Kathleen M. Carley, 2012, "Modeling Formal and Informal Ties within an Organization: A Multiple Model Integration," *The Garbage Can Model of Organizational Choice: Looking Forward at Forty*. Edited by Alessandro Lomi and Richard Harrison (Ed.). 36: Emerald Group Publishing Ltd. DOI [10.1108/S0733-558X\(2012\)0000036013](https://doi.org/10.1108/S0733-558X(2012)0000036013).
- Geoffrey Morgan and Kathleen M. Carley, 2012, "Network-Centric Simulation and Virtual Experimentation," Published in the Proceedings of the 21st Behavioral Representation in Modeling and Simulation (BRiMS) Conference. Amelia Island, FL.
- Philip V. Fellman, Gregory S. Parnell and Kathleen M. Carley, 2011, *Biowar and Bioterrorism Risk Assessment*, In Proceedings of the Eighth International Conference on Complex Systems, Boston.
- Kathleen M. Stuetzer, Kathleen M. Carley, Thomas Koehler and Gerhard Thiem, 2011, "The Communication Infrastructure During the Learning Process in Web Based Collaborative Learning Systems," In proceedings of the ACM WebSci'11, Koblenz, Germany, June 14-17, 2011, pp. 1-8. DOI: [10.1145/2527031.2527045](https://doi.org/10.1145/2527031.2527045).
- Geoffrey P. Morgan and Kathleen M. Carley, 2011, "Exploring the Impact of a Stochastic Hiring Function in Dynamic Organizations," In proceedings of the Behavioral Representation in Modeling and Simulation (BRiMS) Conference, Sundance, UT, March 23, 2011, pp. 106-113. Best Student Paper Award.
- Terrill L. Frantz and Kathleen M. Carley, 2010, "Post-Merger Knowledge Transfer: Examining Antecedent Structural Complexity," In proceedings of ICICKM 2010 The 7th International Conference on Intellectual Capital, Knowledge Management & Organizational Learning, The Hong Kong Polytechnic University, Hong Kong, China, November 11-12, 2010, pp. 190-199.
- Terrill L. Frantz and Kathleen M. Carley, 2009, "Information assurances and threat identification in networked organizations," In Proceedings of IEEE Symposium on Computational Intelligence for Security and Defense Applications, CISDA 2009; Ottawa, ON; Canada.
- Kathleen M. Carley and Terrill L. Frantz, 2009, "Modeling Organizational and Individual Decision Making." *Handbook of Systems Engineering and Management*, Edited by Andrew P. Sage & William B. Rouse (Eds.), New York: Wiley, Ch. 18: 723-762.
- Kathleen M. Carley and Michael Prietula, 2009, "Gossip Matters: Destabilization of an Organization by Injecting Suspicion." *Information Warfare and Organizational Decision Making*, Edited by Alex Kott (Ed.), Artech, Boston, Ch. 7: 159-190.
- M. Meyer, M.A. Zaggl, and Kathleen M. Carley, 2009, "The development of computational modeling on the other side of the Atlantic: A citation and co-citation analysis of CMOT," In Proceedings of 6th Conference of the European Social Simulation Association, ESSA 2009; University of Surrey Guildford; United Kingdom.
- Terrill L. Frantz and Kathleen M. Carley, 2009, "Computationally Modeling the Effect of Organizational Complexity on Post-merger Integration," Edited by Cary L. Cooper and Sydney Finkelstein (Eds.), *Advances in Mergers and Acquisitions*, Oxford, UK: JAI Press, Ch. 8: 79-102.
- Marcelo Cataldo, Jim D. Herbsleb and Kathleen M. Carley, 2008, "Socio-Technical Congruence: A Framework for Assessing the Impact of Technical and Work Dependencies on Software Development Productivity," In Proceedings of the Second ACM-IEEE International Symposium on Empirical Software Engineering and Measurement, New York, NY: ACM, pp. 2-11. ACM Distinguished Paper Award.
- Craig Schreiber and Kathleen M. Carley, 2008, "Dynamic Network Leadership: Leading for Learning Adaptability," *Complexity Leadership Part I: Conceptual Foundations*, edited by Mary Uhl-Bien and Russ Marion (Eds.), Ch. 11: 291-332, Charlotte, NC: Information Age Publishing, Inc.
- Shawn A. Weil, Pacey Foster, Jared Freeman, Kathleen M. Carley, Jana Diesner, Terrill Frantz, Nancy J. Cooke, Steve Shope and James Gorman, 2008, "Converging Approaches to Automated Communications-based Assessment of Team Situation Awareness," *Macro-cognition in Teams*, edited by Letsky, M., Warner, N., Fiore, S., & Smith, C., (Eds.), Ashgate: United Kingdom, Ch. 16: 277-304.

- Craig Schreiber and Kathleen M. Carley, 2007, "Agent Interactions in Construct: An Empirical Validation using Calibrated Grounding," In proceedings of 2007 BRIMS, Norfolk, VA, March 26-29, pp. 1 – 6, Available from: <http://brimsconference.org/archives/2007/abstract/07-BRIMS-054.htm>
- Kathleen M. Carley, 2006, "A Dynamic Network Approach to the Assessment of Terrorist Groups and The Impact of Alternative Courses of Action," In *Visualising Network Information*. Meeting Proceedings RTO-MP-IST-063. Neuilly-sur-Seine, France: RTO, 12 - 14. Available from: http://www.vistg.net/documents/IST063_PreProceedings.pdf
- Kathleen M. Carley, 2006, "Adattamento Organizzativo e Tecnologia: un Modello Computazionale," Organizzazioni e Complessita. by V. Albino, N. Carbonara, I. Giannoccaro (Eds.) Muoversi tra ordine e caos per affrontare il cambiamento," Franco Angeli, Milano, pp. 139-160.
- John M. Graham and Kathleen M. Carley, 2006, "Dynamic Network Analysis in Information Operations: A Process for Near Real-time Assessment of Atmospheric, Socio-Political Landscape and Leverage Points," In proceedings of National Security Methods Conference, RAND, California.
- Jana Diesner and Kathleen M. Carley, 2005, "Exploration of Communication Networks from the Enron Email Corpus," In proceedings of the Workshop on Link Analysis, Counterterrorism and Security, SIAM International Conference on Data Mining 2005, Newport Beach, CA, April 23, pp. 3-14.
- Michael Ashworth and Kathleen M. Carley, 2004, "Toward Unified Organization Theory: Perspectives on the State of Computational Modeling," In Proceedings of the NAACSOS 2004 Conference, Pittsburgh, PA, June 27-29, Electronic Publication: http://www.casos.cs.cmu.edu/events/conferences/2004/2004_proceedings/Ashworth_NAACSOS_2004Paper.pdf
- Robert Behrman and Kathleen M. Carley, 2004, "Social Network Influences on Strategic Choices," In Proceedings of the NAACSOS 2004 Conference, Pittsburgh, PA, June 27-29, Electronic Publication: http://www.casos.cs.cmu.edu/events/conferences/2004/2004_proceedings/Behrman.Robert.pdf
- Judith A. Effken, Barbara B. Brewer, Anite Patil, Gerri S. Lamb, Joyce A. Verran and Kathleen M. Carley, 2004, "Using Computational Modeling to Improve Patient Care Unit Safety and Quality Outcomes," In Proceedings of MedInfo 2004, Amsterdam, Edited by M. Fieschi et al., (Eds.): IOS Press, Part 1, pp. 726 - 730. Received the AMIA Harriet Werley Award.
- Craig Schreiber and Kathleen M. Carley, 2004, "Key Personnel: Identification and Assessment of Turnover Risk", In Proceedings of the NAACSOS 2004 Conference, Pittsburgh, PA, June 27-29, Electronic Publication: http://www.casos.cs.cmu.edu/events/conferences/2004/2004_proceedings/Schreiber,Craig.pdf
- Robert Behrman and Kathleen M. Carley, 2003, "Modeling the Structure and Effectiveness of Intelligence Organizations: Dynamic Information Flow Simulation," In Proceedings of the 8th International Command and Control Research and Technology Symposium. National Defense War College, Washington DC, June 17-19 Evidence Based Research, Track 7, Electronic Publication, http://www.dodccrp.org/events/8th_ICCRTS/Pres/track_7/2_1630behrman.pdf, Vienna, VA.
- Kathleen M. Carley, Matthew Dombroski, Max Tsvetovat, Jeffrey Reminga and Natasha Kamneva, 2003, "Destabilizing Dynamic Covert Networks," In Proceedings of the 8th International Command and Control Research and Technology Symposium. National Defense War College, Washington DC, June 17-19. Evidence Based Research, Track 3, Electronic Publication, http://www.dodccrp.org/events/8th_ICCRTS/Pres/track_3/1_1330Carley.pdf, Vienna, VA.
- Matthew Dombroski, Paul Fischbeck and Kathleen M. Carley, 2003, "Estimating the Shape of Covert Networks" In Proceedings of the 8th International Command and Control Research and Technology Symposium. National Defense War College, Washington DC, June 17-19. Evidence Based Research, Track 3, Electronic Publication, http://www.dodccrp.org/events/8th_ICCRTS/Pres/track_3/1_1400Dombroski.pdf, Vienna, VA.
- Judith A. Effken, Barbara B. Brewer, Anita Patil, Gerri S. Lamb, Joyce A. Verran and Kathleen M. Carley, 2003, "Using Computational Modeling to Study the Impact of Workplace Characteristics on Patient Safety Outcomes," In Proceedings of the AMIA2003 Symposium: Biomedical and Health Informatics: From Foundations to Applications, Electronic Publication: http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1480268/pdf/amia2003_0837.pdf
- Kathleen M. Carley, 2002, "Inhibiting Adaptation" In Proceedings of the 2002 Command and Control Research and Technology Symposium," Naval Postgraduate School, Monterey, CA. Evidence Based Research, Track 3, Electronic Publication, http://www.dodccrp.org/events/2002_CCRTS/Tracks/pdf/023.PDF , Vienna, VA.

- Kathleen M. Carley and Craig Schreiber, 2002, "Information Technology and Knowledge Distribution in C³I teams," In Proceedings of the 2002 Command and Control Research and Technology Symposium. Conference held in Naval Postgraduate School, Monterey, CA. Evidence Based Research, Track 1, Electronic Publication, http://www.dodccrp.org/events/2002_CCRTS/Tracks/pdf/032.PDF, Vienna, VA.
- Kathleen M. Carley, 2002, "Computational Organization Science: A New Frontier," In Arthur M. Sackler Colloquium Series on Adaptive Agents, Intelligence and Emergent Human Organization: Capturing Complexity through Agent-Based Modeling, Irvine, CA, October 4-6, 2001, National Academy of Sciences Press 99.3: 7257-7262.
- Kathleen M. Carley, 2002, "Intra-Organizational Computation and Complexity," In Companion to Organizations. Edited by Joel A.C. Baum (Ed.), Blackwell Publishers, Ch. 9: 208-232.
- Kathleen M. Carley, 2002, "Smart Agents and Organizations of the Future," The Handbook of New Media. Edited by Leah Lievrouw and Sonia Livingstone (Eds.), Thousand Oaks, CA, Sage, Ch. 12: 206-220.
- Kathleen M. Carley, 2001, "Organizational Performance, Coordination and Cognition," In Coordination Theory and Collaboration Technology. Edited by Olson, G.M., Malone, T.W. and Smith, J.B. (Eds), Mahwah, NJ: Lawrence Erlbaum Associates, Ch. 20: 595-622.
- Kathleen M. Carley and Vanessa Hill, 2001, "Structural Change and Learning within Organizations," In Dynamics of Organizations: Computational Modeling and Organizational Theories. Edited by Alessandro Lomi and Erik R. Larsen (Eds.), MIT Press/AAAI Press/Live Oak, Ch. 2: 63-92.
- Kathleen M. Carley and William A. Wallace, 2001, "Computational Organization Theory," Encyclopedia of Operations Research and Management Science, Edited by Saul I. Gass and Carl M. Harris (Eds.). Kluwer Academic Publishers, Norwell, MA, pp. 126-132.
- Kathleen M. Carley and Yuqing Ren, 2001, "Tradeoffs Between Performance and Adaptability for C³I Architectures," Proceedings of the 2001 Command and Control Research and Technology Symposium. Conference, Annapolis, Maryland, June 2001. Evidence Based Research, Track 2, Electronic Publication, http://www.dodccrp.org/events/2001/6th_ICCRTS/Cd/Tracks/Papers/Track2/082_tr2.pdf, Vienna, VA.
- Zhiang Lin and Kathleen M. Carley, 2001, "Organizational Design and Adaptation in Response to Crises: Theory and Practice," AoM Best Papers Proceedings. Edited by In Dennis H. Nagao (Ed.), Sixty-First Annual Meeting of the Academy of Management, Washington, D.C., August 3-8, "How Governments Matter," Academy of Management Proceedings 2001, Academy of Management, Washington D.C. OMT: B1-B6.
- Pietro Panzarasa, Kathleen M. Carley and David Krackhardt, 2001, "Modeling Structure and Cognition in Organizations: A Meta-Network Computational Approach," CASOS Conference 2001, Day 3, Electronic Publication, <http://www.casos.cs.cmu.edu/events/conferences/2001/booklette.pdf>, Pittsburgh, PA, July 5-8.
- Michael J. Prietula and Kathleen M. Carley, 2001, "Boundedly Rational and Emotional Agents: Cooperation, Trust and Rumor," In Trust and Deception in Virtual Societies. Edited by Cristiano Castelfranchi and Yao-Hua Tan. (Eds.) Kluwer Academic Publishers, Ch. 9: 169-194.
- Kathleen M. Carley, 2000. "Organizational Change and the Digital Economy: A Computational Organization Science Perspective," Understanding the Digital Economy: Data, Tools, Research. Edited by Brynjolfsson, Erik and Brian Kahin (Eds.), MIT Press, Cambridge, MA, Ch. 18: 325-351.
- Kathleen M. Carley, 2000, "Organizational Adaptation in Volatile Environments," Computational Modeling in Organizational Behavior: The Third Scientific Discipline. Edited by C. L. Hulin and D. R. Ilgen (Eds.), Washington, DC: American Psychological Association, Ch. 11: 241-268.
- Kathleen M. Carley, Yuqing Ren and David Krackhardt, 2000, "Measuring and Modeling Change in C³I Architecture," In Proceedings of the 2000 Command and Control Research and Technology Symposium. Naval Postgraduate School, Monterey, CA, June 26-29. Evidence Based Research, Track 3, Electronic Publication, http://www.dodccrp.org/events/2000_CCRTS/html/pdf_papers/Track_3/041.pdf, Vienna, VA.
- Kathleen M. Carley, 1999, "Learning Within and Among Organizations," Advances in Strategic Management: Population-Level Learning and Industry Change. Edited by Philip Anderson, Joel Baum and Anne Miner (Eds.), Elsevier Science Ltd., Ch. 16: 33-56.
- Kathleen M. Carley and Dean Behrens, 1999, "Organizational and Individual Decision Making," In Handbook of Systems Engineering and Management. Edited by A.P. Sage and W. B. Rouse (Eds.), John Wiley and Sons, Inc., Ch. 18: 659-686.

- Kathleen M. Carley and Les Gasser, 1999, "Computational Organization Theory," In *Multiagent Systems: A Modern Approach to Distributed Artificial Intelligence*. Edited by Gerhard Weiss (Ed.), Cambridge, MA: MIT Press, Ch. 7: 299-330.
- Kathleen M. Carley and David Krackhardt, 1999, "A Typology for C² Measures." In *Proceedings of the 1999 International Symposium on Command and Control Research and Technology*. Newport, RI., June 29-July 1, 1999, Evidence Based Research, Track 1 Day 2, Electronic Publication, Vienna, VA.
- Kathleen M. Carley and Ju-Sung Lee, 1998, "Dynamic Organizations: Organizational Adaptation in a Changing Environment," in *Advances in Strategic Management*, Edited by Joel Baum (Ed.), *Disciplinary Roots of Strategic Management Research*, Greenwich, CN: JAI Press, Ch. 15: 269-297.
- Kathleen M. Carley and Michael J. Prietula, 1998, "Webbots, Trust and Organizational Science," *Simulating Organizations: Computational Models of Institutions and Groups*. Edited by Michael J. Prietula, Kathleen M. Carley and Les Gasser (Eds.), Menlo Park, CA: AAAI Press / The MIT Press, Ch. 1: 3-22.
- David J. Kaplan and Kathleen M. Carley, 1998, "An Approach to Modeling Communication and Information Technology in Organizations," *Simulating Organizations: Computational Models of Institutions and Groups*. Edited by Michael J. Prietula, Kathleen M. Carley and Les Gasser (Eds.), Menlo Park, CA: AAAI Press / The MIT Press, Ch. 9: 169-190.
- David Krackhardt and Kathleen M. Carley, 1998, "A PCANS Model of Structure in Organization," In *proceedings of the 1998 International Symposium on Command and Control Research and Technology*, Monterey, CA, June 1998, Evidence Based Research, Vienna, VA, pp. 113-119.
- Ju-Sung Lee and Kathleen M. Carley, 1998, "Adaptive Strategies for Improving C2 Performance," In *proceedings of the 1998 International Symposium on Command and Control Research and Technology*. Monterey, CA, June, 1998. Evidence Based Research, Vienna, VA, pp. 66-77.
- Michael J. Prietula and Kathleen M. Carley, 1998, "A Computational Model of Trust and Rumor," In *Proceedings of the 1998 AAAI Fall Symposium Series - Emotional and Intelligent: The Tangled Knot of Cognition*, Orlando, FL., October 23-25, 1998, pp. 146-147.
- Kathleen M. Carley, 1997, "Organizations and Constraint Based Adaptation," *Chaos, Complexity and Sociology: Myths, Models and Theories*, Edited by Raymond A. Eve, Sara Horsfall and Mary E. Lee (Eds.), Sage, Thousand Oaks, CA, Ch. 17: 229-242.
- Kathleen M. Carley, 1997, "Organizational Adaptation and Cognition," In *Proceedings of Cognitive Science Proceedings*. Stanford, CA, August 7-10, 1997.
- Kathleen M. Carley and Ju-Sung Lee, 1997, "C2 Adaptation in a Changing Environment," In *Proceedings of the 1997 International Symposium on Command and Control Research and Technology*, Washington, DC., June 17-20, 1997, Evidence Based Research, Vienna, VA, pp. 287-297.
- Michael J. Prietula and Kathleen M. Carley, 1997. "Agents, Trust and Organizational Behavior," *Socially Intelligent Agents: Papers from the 1997 AAAI Fall Symposium*. Edited by in K. Dautenhahn (Ed.), AAAI Press Technical Report FS 97-02, Menlo Park, CA: AAAI Press, pp. 146-149.
- Kathleen M. Carley, 1996, "Adaptive Organizations: A Comparison of Strategies for Achieving Optimal Performance," In *Proceedings of the 1996 International Symposium on Command and Control Research and Technology*, Monterey, CA, June 25-28, 1996, Evidence Based Research, Vienna, VA. pp. 322-330.
- Kathleen M. Carley, 1995, "Automatic Restructuring of the C2 Structure and Performance," In *Proceedings of the 1995 International Symposium on Command and Control Research and Technology*, Washington D.C., June 1995, Evidence Based Research, Vienna, VA.
- Kathleen M. Carley and Michael J. Prietula, 1994, "ACTS Theory: Extending the Model of Bounded Rationality," *Computational Organization Theory*. Edited by Kathleen M. Carley and Michael Prietula (Eds.), Hillsdale, NJ: Lawrence Earlbaum Associates, pp. 55-87.
- Zhiang Lin and Kathleen M. Carley, 1994, "Organizational Response: Trade-offs among Opportunities for Review, Cost and Performance," In *Proceedings of the 1994 Spring Symposium on Computational Organization Design*, Edited by Raymond Levitt, Ingemar Hulthage, Duvvuru Sriram and Sarosh Talukdar (Eds.), American Association for Artificial Intelligence, Stanford, CA, pp.139-145.
- Kathleen M. Carley and Zhiang Lin, 1993, "Organizational Designs Suited to High Performance Under Stress," Short version, In *Proceedings of the 1993 Symposium on Command and Control Research*, Evidence Based Research, Vienna, VA.

- Kathleen M. Carley, David Park and Michael J. Prietula, 1993, "Agent Honesty, Cooperation and Benevolence in an Artificial Organization," Workshop Notes for the AI and Theories of Groups and Organizations: Conceptual and Empirical Research Eleventh National Conference on Artificial Intelligence, Edited by Prietula M., K. Carley, L. Gasser and D. King (Eds.), Washington D.C., pp. 1-7.
- Kathleen M. Carley and Michael J. Prietula, 1993, "Plural-Soar: Towards the Development of a Cognitively Motivated Theory of Organizations," In Proceedings of the 1993 Coordination Theory and Collaboration Technology Workshop. Symposium conducted for the National Science Foundation, Washington, D.C.
- Zhiang Lin and Kathleen M. Carley, 1993, "Does Agent Style Matter in Organizational Decision Making Performance?" Workshop Notes for the AI and Theories of Groups and Organizations: Conceptual and Empirical Research Eleventh National Conference on Artificial Intelligence, Edited by Prietula M., K. Carley, L. Gasser and D. King (Eds.), Washington D.C., pp. 53-60.
- Kathleen M. Carley, Johan Kjaer-Hansen, Michael J. Prietula and Allen Newell, 1992, "Plural-Soar: A Prolegomenon to Artificial Agents and Organizational Behavior," Artificial Intelligence in Organization and Management Theory, Edited by Masuch M. and M. Warglien (Eds.), Amsterdam, The Netherlands: Elsevier Science Publishers, pp. 87-118.
- Kathleen M. Carley and Michael J. Prietula, 1992, "Toward a Cognitively Motivated Theory of Organizations," In Proceedings of the 1992 Coordination Theory and Collaboration Technology Workshop. Symposium conducted for the National Science Foundation, Washington, D.C.
- Kathleen M. Carley, 1990, "Coordinating for Success: Trading Information Redundancy for Task Simplicity," In Proceedings of the 23rd Annual Hawaii International Conference on System Sciences, Kailua-Kona, Hawaii, Jan 2-5, 1990, Los Alamitos, C: IEEE Computer Society Press, 4: 261-270.
- Kathleen M. Carley, 1990, "Distributed Information and Organizational Decision-Making Models," Concise Encyclopedia of Information Processing in Systems and Organizations, Edited by Andrew Sage (Ed.), London, England: Pergamon Press, pp. 137-144.
- Kathleen M. Carley, 1986, "Measuring Efficiency in a Garbage Can Hierarchy," Ambiguity and Command: Organizational Perspectives on Military Decision Making, Edited by James March and Roger Weissinger-Baylon (Eds.), Boston, MA: Pitman, pp. 165-194.
- Kathleen M. Carley, 1986, "Efficiency in a Garbage Can: Implications for Crisis Management," Ambiguity and Command: Organizational Perspectives on Military Decision Making, Edited by James March and Roger Weissinger-Baylon (Eds.), Boston, MA: Pitman, pp. 195-231.

ARTICLES: SOCIAL CHANGE AND DIFFUSION

REFEREED PUBLICATIONS

- Matthew Benigni, Kenneth Joseph and Kathleen M. Carley, 2017-forthcoming, Mining Online Communities to Inform Strategic Messaging: practical methods to identify community-level insights. Computational and Mathematical Organization Theory DOI: [10.1007/s10588-017-9255-3](https://doi.org/10.1007/s10588-017-9255-3)
- Geoffrey P. Morgan, Kenneth Joseph and Kathleen M. Carley, 2017-forthcoming, The Power of Social Cognition, JOSS.
- Matthew Benigni, Kenneth Joseph and Kathleen M. Carley, 2017-forthcoming, "Online Extremism and the Communities that Sustain It: Detecting the ISIS Supporting Community on Twitter," PLOS ONE
- Kenneth Joseph and Kathleen M. Carley, 2016, "Relating semantic similarity and semantic association to how humans label other people." NLP+ CSS 2016 (2016): 1.
- Kathleen M. Carley, Geoffrey P. Morgan, and Michael J. Lanham, 2017-forthcoming, "Deterring the Development and Use of Nuclear Weapons: A Multi-Level Modeling Approach," Journal of Defense Modeling and Simulation: Applications, Methodology, Technology.
- Wei Wei, Kenneth Joseph, Huan Liu and Kathleen M. Carley, 2016, "Exploring Characteristics of Suspended Users and Network Stability on Twitter." *Social network analysis and mining*, 6:51. DOI: [10.1007/s13278-016-0358-5](https://doi.org/10.1007/s13278-016-0358-5).
- Kathleen M. Carley, Momin Malik, Pater M. Landwehr, Jürgen Pfeffer, and Michael Kowalchuck, 2016, "Crowd Sourcing Disaster Management: The Complex Nature of Twitter Usage in Padang Indonesia." *Safety Science*, 90: 48-61. DOI: [10.1016/j.ssci.2016.04.002](https://doi.org/10.1016/j.ssci.2016.04.002).

- Brian R. Hirshman, Laurie A. Jones, Jessica A. Tang, Ali Mir Amaan, James A. Proudfoot, Kathleen M. Carley, Bob S. Carter and Clark C. Chen, 2016, "SURG-41: "Journal Bias" in Neuro-Oncology: An Analysis of the Surgical High Grade Glioma Literature." *Neuro-Oncology* 18, no. suppl 6 (2016): vi199-vi199.
- Brian R. Hirshman, Jessica A. Tang, Laurie A. Jones, James A. Proudfoot, Kathleen M. Carley, Lawrence Marshall, Bob S. Carter and Clark C. Chen, 2016, "Impact of Medical Academic Genealogy on Publication Patterns: An Analysis of the Literature for Surgical Resection in Brain Tumor Patients." *American Neurological Association*. DOI: [10.1002/ana.24569](https://doi.org/10.1002/ana.24569).
- Kenneth Joseph and Kathleen M. Carley, 2015, "Culture, Networks, Twitter and Foursquare: Testing a Model of Cultural Conversion with Social Media Data." In Proceedings of the 9th The International AAAI Conference on Web and Social Media (ICWSM'2015), 2015.
- Arun Kalyanasundaram, Wei Wei, Kathleen M. Carley and James D. Herbsleb, 2015, "An Agent-Based Model of Edit Wars in Wikipedia: How and When is Consensus Reached," Proceedings of the 2015 Winter Simulation Conference, eds. L. Yilmaz, W.K.V. Chan, T.M. K. Roeder, C. Macal, and M. D. Rossetti., Huntington Beach, CA.
- William Frankenstein, Ghita Mezzour, Kathleen M. Carley, L. Richard Carley, 2015. Remote assessment of countries' nuclear, biological, and cyber capabilities: joint motivation and latent capability approach. *Social Network Analysis and Mining*, 5(1):1-21. DOI: [10.1007/s13278-014-0243-z](https://doi.org/10.1007/s13278-014-0243-z)
- Ghita Mezzour, L. Richard Carley and Kathleen M. Carley, 2014. Longitudinal Analysis of a Large Corpus of Cyber Threat Descriptions. *Journal of Computer Virology and Hacking Techniques*. DOI: [10.1007/s11416-014-0217-8](https://doi.org/10.1007/s11416-014-0217-8)
- Kathleen M. Carley, Jürgen Pfeffer, Fred Morstatter, and Huan Liu. 2014. Embassies Burning: Toward a Near Real Time Assessment of Social Media Using Geo-Temporal Dynamic Network Analytics, *Social Network Analysis and Mining*, 4:195. DOI: [10.1007/s13278-014-0195-3](https://doi.org/10.1007/s13278-014-0195-3)
- Kenneth Joseph, Kathleen M. Carley, David Filonuk, Geoffrey P. Morgan, and Jürgen Pfeffer, 2014. "Arab Spring: From News Data to Forecasting." *Social Network Analysis and Mining*. Online publication, February 2014, 4(1), Springer Vienna. DOI: [10.1007/s13278-014-0177-5](https://doi.org/10.1007/s13278-014-0177-5).
- Ghita Mezzour and Kathleen M. Carley, 2014. "Spam Diffusion in a Social Network Initiated by Hacked E-mail Accounts," *International Journal of Security and Networks*. 9(3): 144-153. DOI: [10.1504/IJSN.2014.065709](https://doi.org/10.1504/IJSN.2014.065709).
- John Horgan, Michael Kenney, Cale Horne, Peter Vining, Kathleen M. Carley, Michael Bigrigg, Mia Bloom, and Kurt Braddock, 2014, "Competitive Adaptation in Terrorist Networks: Preliminary Findings From an Islamist Case Study," in Counter-terrorism & Hostile Intent: Human Factors Theory and Application, edited by Alex Stedmon, Glyn Lawson & Rose Saikayasit (London: Ashgate, 2014).
- Peter Landwehr and Kathleen M. Carley, 2014. "Social Media in Disaster Relief: Usage Patterns, Data Mining Tools, and Current Research Directions," in Data Mining and Knowledge Discovery for Big Data, W. W. Chu, (Ed) Springer Berlin Heidelberg, 1: 225–257.
- Jürgen Pfeffer, Thomas Zorbach and Kathleen M. Carley, 2014, Understanding online firestorms: Negative word of mouth dynamics in social media networks, *Journal of Marketing Communications, Special Issue: Word of Mouth and Social Media* 20(1-2): 117-128. DOI: [10.1080/13527266.2013.797778](https://doi.org/10.1080/13527266.2013.797778).
- Ai Jun, Zhao Hai, Kathleen M. Carley, Su Zhan, and Li Hui, 2013, "Evolution of IPv6 Internet topology with unusual sudden changes"" *Chinese Physics B* 22(7): 078902.
- Kenneth Joseph, Geoffrey P. Morgan, Michael K. Martin, and Kathleen M. Carley, 2013, Sociocultural models of nuclear deterrence.olution of Stereotype, Culture, and Social Relationships: An Agent-Based Model. *Social Science Computer Review*. 32(3), 295–311. DOI:10.1177/0894439313511388.
- Miray Kas, L. Richard Carley and Kathleen M. Carley, 2013, "Monitoring Social Centrality for Peer-To-Peer Network Protection." *Communications Magazine, IEEE*, 51(12): 155-161. DOI: [10.1109/MCOM.2013.6685771](https://doi.org/10.1109/MCOM.2013.6685771).
- Kathleen. M. Carley, Jürgen Pfeffer, Huan Liu, Fred Morstatter and Rebecca Goolsby, 2013, Near Real Time Assessment of Social Media Using Geo-Temporal Network Analytics, In Proceedings of 2013 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), August 25-28 2013, Niagra Falls, Canada. DOI: [10.1145/2492517.2492561](https://doi.org/10.1145/2492517.2492561).
- Fred Morstatter, Jürgen Pfeffer, Huan Liu and Kathleen M. Carley, 2013, "Is the Sample Good Enough? Comparing Data from Twitter's Streaming API with Twitter's Firehose," In proceedings of International AAAI Conference on Weblogs and Social Media (ICWSM), July 8-10, Boston, MA, pp. 400-408.

- Jamie Olson and Kathleen M. Carley, 2013, "Exact and Approximate EM Estimation of Mutually Exciting Hawkes Processes," *Statistical Inference for Stochastic Processes*, 16(1): 63-80.
- Marc Spraragen, Mike Zyda, Balakrishnan Ranganathan, Peter Landwehr, Kathleen Carley, Yu-Han Chang and Rajiv Maheswaran, 2013, *Cosmopolis: A Massively Multiplayer Online Game for Social and Behavioral Research Journal of Artificial Societies and Social Simulation*, January 25, 2013.
- Michael Kenney, John Horgan, Cale Horne, Peter Vining, Kathleen M. Carley, Michael W. Bigrigg, Mia Bloom, and Kurt Braddock, 2013, Organisational Adaptation in an Activist Network: Social Networks, Leadership, and Change in al-Muhajiroun, *Applied Ergonomics*, 44(5):739-747. DOI: [10.1016/j.apergo.2012.05.005](https://doi.org/10.1016/j.apergo.2012.05.005).
- Laurent Tambayong and Kathleen M. Carley, 2012, "Network text analysis in computer-intensive rapid ethnography retrieval: An example from political networks of Sudan," *Journal of Social Structure*, 13(2).
- L. Richard Carley and Kathleen M. Carley, 2012, "Use of Social Network Analysis to Improve Wireless Data Distribution," vol. 5, *Journal of Sociology and Social Anthropology*.
- Tracy Van Holt, Jeffrey C. Johnson, Jamie Brinkley, Kathleen M. Carley and Janna Caspersen, 2012, "Structure of ethnic violence in Sudan: an automated content, meta-network and geospatial analytical approach," *Computational and Mathematical Organization Theory*, 18:340-355. DOI: [10.1007/s10588-012-9124-z](https://doi.org/10.1007/s10588-012-9124-z).
- Miray Kas, Kathleen M. Carley and L. Richard Carley, 2012, "Who was Where, When? Spatiotemporal Analysis of Researcher Mobility in Nuclear Science," In proceedings of the International Workshop on Spatio Temporal data Integration and Retrieval (STIR 2012), held in conjunction with ICDE 2012, April 1, 2012, Washington D.C. DOI: [10.1109/ICDEW.2012.75](https://doi.org/10.1109/ICDEW.2012.75).
- Jürgen Pfeffer and Kathleen M. Carley, 2012, "Social Networks, Social Media, Social Change." In: D. D. Schmorow, D.M. Nicholson (Eds), *Advances in Design for Cross-Cultural Activities Part II*, CRC Press, pp. 273-282. Reprinted from: Jürgen Pfeffer and Kathleen M. Carley, 2012, "Social Networks, Social Media, Social Change," In proceedings of the 2nd International Conference on Cross-Cultural Decision Making: Focus 2012, San Francisco, CA, July 21-25, 2012.
- Miray Kas, Alla Khadka, William Frankenstein, Ahmed Y. Abdulla, Frank Kunkel, L. Richard Carley and Kathleen M. Carley, 2012, "Analyzing scientific networks for nuclear capabilities assessment." *Journal of the American Society for Information Science and Technology*, 63.7: 1294–1312. DOI: [10.1002/asi.22678](https://doi.org/10.1002/asi.22678)
- Miray Kas, Kathleen M. Carley and L. Richard Carley, 2012, "Trends in Science Networks: Understanding Structures and Statistics of Scientific Networks," *Social Network Analysis and Mining (SNAM)*, Springer, 2:169-187. DOI: [10.1007/s13278-011-0044-6](https://doi.org/10.1007/s13278-011-0044-6)
- Il-Chul Moon, Alice H. Oh and Kathleen M. Carley, 2011, "Analyzing Social Media in Escalating Crisis Situations," *Proceedings of IEEE International Conference on Intelligence and Security Informatics*, pp. 71-76.
- Kathleen M. Carley, Dawn C. Robertson, Michael K. Martin, Ju-Sung Lee, Jesse L. St. Charles, Brian R. Hirshman, 2010, "Predicting Intentional and Inadvertent Non-compliance," In proceedings of the IRS Research Conference, Washington, D.C., June 29-30, 2010.
- Jamie F. Olson, James Howison, Kathleen M. Carley, 2010, Paying Attention to Each Other in Visible Work Communities: Modeling Bursty Systems of Multiple Activity Streams. In proceedings of the 2010 IEEE Second International Conference on Social Computing, SocialCom / IEEE International Conference on Privacy, Security, Risk and Trust, PASSAT 2010, Minneapolis, Minnesota, USA, August 20-22, 2010; 01/2010.
- Kathleen M. Carley, Michael K. Martin and Brian Hirshman, 2009, "The Etiology of Social Change," *Topics in Cognitive Science*, 1.4:621-650. DOI: [10.1111/j.1756-8765.2009.01037.x](https://doi.org/10.1111/j.1756-8765.2009.01037.x)
- Pietro Panzarasa, T. Opsahl and Kathleen M. Carley, 2009, "Patterns and dynamics of users' behavior and interaction: Network analysis of an online community," *Journal of the American Society for Information Science & Technology*, 60.5: 911-932. DOI: [10.1002/asi.v60:5](https://doi.org/10.1002/asi.v60:5)
- Vanessa Hill and Kathleen M. Carley, 2008, "Win Friends and Influence People: Relationships as Conduits of Organizational Culture in Temporary Placement Agencies," *Journal of Management Inquiry*, 17.4: 369-379. DOI: [10.1177/1056492606294527](https://doi.org/10.1177/1056492606294527)
- Bruce Y. Lee, Virginia L. Bedford, Mark S. Roberts and Kathleen M. Carley, 2008, "Virtual epidemic in a virtual city: simulating the spread of influenza in a US metropolitan area," *Translational Research*, 2008 Jun; 151.6:275-87. Epub 2008 Apr 3. DOI: [10.1016/j.trsl.2008.02.004](https://doi.org/10.1016/j.trsl.2008.02.004)

- Bradley Malin and Kathleen M. Carley, 2007, "A longitudinal social network analysis of the editorial boards of bioinformatics and medical informatics journals," *Journal of the American Medical Informatics Association*, May-Jun2007, 14(3): 340-348. DOI: [10.1197/jamia.M2228](https://doi.org/10.1197/jamia.M2228)
- Il-Chul Moon and Kathleen M. Carley, 2007, "Modeling and Simulation of Terrorist Networks in Social and Geospatial Dimensions," *IEEE Intelligent Systems: Special issue on Social Computing* - Sep/Oct '07, 22(5): 40-49. DOI: [10.1109/MIS.2007.91](https://doi.org/10.1109/MIS.2007.91)
- Kathleen M. Carley and Daniel T. Maxwell, 2006, "Understanding Taxpayer Behavior and Assessing Potential IRS interventions using Multiagent Dynamic-Network Simulations," In *Recent Research on Tax Administration and Compliance: In proceedings of the 2006 IRS Research Conference*. Edited by Dalton and Bliss (Eds.), Washington, D.C., pp. 96-103. Available from: <http://www.irs.gov/pub/irs-soi/06carley.pdf>
- Maksim Tsvetov and Kathleen M. Carley, April 2005 "Structural Knowledge and Success of Anti-Terrorist Activity: The Downside of Structural Equivalence," *Journal of Social Structure*, 6(2), Electronic Publication <http://www.cmu.edu/joss/content/articles/volume6/TsvetovCarley/index.html>
- Li-Chiou Chen and Kathleen M. Carley, 2004, "The Impact of Countermeasure Spreading on the Propagation of Computer Viruses," *IEEE Transactions on Systems, Man and Cybernetics-Part B: Cybernetics*, 34(2): 823-833. Available from: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=1275518&userType=&tag=1>
- Li-Chou Chen, Thomas A. Longstaff and Kathleen M. Carley, 2004, "The Economic Incentives of Providing Network Security Services on the Internet Infrastructure," *Journal of Information Technology Management JITM*, 15(3-4):1-13, Available from: <http://jitm.ubalt.edu/XV3-4/article1.pdf>
- Li-Chiou Chen, Thomas A. Longstaff and Kathleen M. Carley, 2004, "Characterization of DDOS Defense Mechanisms," *Computers & Security*, 23(8): 665-678. DOI: [10.1016/j.cose.2004.06.008](https://doi.org/10.1016/j.cose.2004.06.008)
- Maksim Tsvetov and Kathleen M. Carley, 2004, "Modeling complex socio-technical systems using Multi Agent simulation models" in special issue on Applications of Software Agents of the KI- Zeitschrift fuer Kuenstliche Intelligenz (AI - Journal of Artificial Intelligence), 2.04:23-28.
- Kathleen M. Carley, Ju-Sung Lee and David Krackhardt, 2001, "Destabilizing Networks," *Connections* 24(3):79-92. Available from: http://www.insna.org/PDF/Connections/v24/2001_I-3-10.pdf
- Kathleen M. Carley, 1999, "On the Evolution of Social and Organizational Networks," Special issue of *Research in the Sociology of Organizations* on "Networks In and Around Organizations." Edited by Steven B. Andrews and David Knoke (Eds.), Greenwich, CN: JAI Press, Inc. Stamford, CT, Ch. 16: 3-30.
- Tiziana Casciaro, Kathleen M. Carley and David Krackhardt, 1999, "Positive affectivity and accuracy in social network perception," *Motivation and Emotion*, 23(4): 285-306. DOI: [10.1023/A:1021390826308](https://doi.org/10.1023/A:1021390826308)
- Vanessa Hill and Kathleen M. Carley, 1999, "An Approach to Identifying Consensus in a Subfield: The Case of Organizational Culture." *Poetics*, 27(1):1-30. DOI: [10.1016/S0304-422X\(99\)00004-2](https://doi.org/10.1016/S0304-422X(99)00004-2)
- David Banks and Kathleen M. Carley, 1996, "Models of Social Network Evolution," *Journal of Mathematical Sociology*, 21(1-2):173-196.
- Kathleen M. Carley, 1996, "Communicating New Ideas: The Potential Impact of Information and Telecommunication Technology," *Technology in Society*, 18(2): 219-230. DOI: [10.1016/0160-791X\(96\)00009-7](https://doi.org/10.1016/0160-791X(96)00009-7)
- Kathleen M. Carley, 1996, "Artificial Intelligence within Sociology," *Sociological Methods and Research*, 25(1): 3-30. DOI: [10.1177/0049124196025001001](https://doi.org/10.1177/0049124196025001001)
- Kathleen M. Carley and David Krackhardt, 1996, "Cognitive inconsistencies and non-symmetric friendship," *Social Networks*, 18(1): 1-27. DOI: [10.1016/0378-8733\(95\)00252-9](https://doi.org/10.1016/0378-8733(95)00252-9)
- David S. Kaufer and Kathleen M. Carley, 1996, "The Influence of Print on Social and Cultural Change," *Annual Review of Applied Linguistics*, 16:14-25. DOI: [10.1017/S0267190500001410](https://doi.org/10.1017/S0267190500001410).
- Kathleen M. Carley, 1995, "Communication Technologies and Their Effect on Cultural Homogeneity, Consensus and the Diffusion of New Ideas," *Sociological Perspectives*, 38(4): 547-571. Available from: <http://www.jstor.org/stable/1389272>
- William Bainbridge, Edward Brent, Kathleen M. Carley, David Heise, Michael Macy, Barry Markovsky and John Skvoretz, 1994, "Artificial Social Intelligence," *Annual Review of Sociology*, 20: 407-436.
- Kathleen M. Carley, Norman Hummon and Martha Harty, 1993, "Scientific Influence: An Analysis of the Main Path Structure in the Journal of Conflict Resolution," *Knowledge: Creation, Diffusion, Utilization*, 14(4): 417-447.

- Kathleen M. Carley and Allen Newell, 1994, "The Nature of the Social Agent," *Journal of Mathematical Sociology*, 19(4): 221-262. DOI: [10.1080/0022250X.1994.9990145](https://doi.org/10.1080/0022250X.1994.9990145)
- David Kaufer and Kathleen M. Carley, 1994, "Some Concepts and Axioms about Communication: Proximate and a Distance," *Written Communication*, 11(1): 8-42. DOI: [10.1177/0741088394011001003](https://doi.org/10.1177/0741088394011001003)
- Norman Hummon and Kathleen M. Carley, 1993, "Social Networks: As Normal Science," *Social Networks*, 15(1): 71-106. DOI: [10.1016/0378-8733\(93\)90022-D](https://doi.org/10.1016/0378-8733(93)90022-D)
- Kathleen M. Carley, 1991, "A Theory of Group Stability," *American Sociological Review*, 56.3: 331-354. Available from: <http://www.jstor.org/stable/2096108>. Reprinted in *Organizational Networks Research*, 2011, Martin Kilduff Diageo & Andrew V. Shipilov (Eds), Sage.
- Kathleen M. Carley and Kira Wendt, 1991, "Electronic Mail and Scientific Communication: A Study of the Soar Extended Research Group," *Knowledge: Creation, Diffusion, Utilization*, 12(4): 406-440. DOI: [10.1177/107554709101200405](https://doi.org/10.1177/107554709101200405)
- Kathleen M. Carley, 1990, "Group Stability: A Socio-Cognitive Approach," *Advances in Group Processes: Theory and Research*. Edited by Lawler E., Markovsky B., Ridgeway C. and Walker H. (Eds.), Vol. VII. Greenwich, CN: JAI Press, 7: 1-44.
- Kathleen M. Carley, 1990, "Structural Constraints on Communication: The Diffusion of the Homomorphic Signal Analysis Technique through Scientific Fields," *Journal of Mathematical Sociology*, 15(3-4): 207-246. DOI: [10.1080/0022250X.1990.9990070](https://doi.org/10.1080/0022250X.1990.9990070)
- Leah A. Lievrouw and Kathleen M. Carley, 1990, "Changing Patterns of Communication Among Scientists In an Era of Telescience," *Technology in Society*, 12(4): 457-477.
- Kathleen M. Carley, 1989, "The Value of Cognitive Foundations for Dynamic Social Theory," *Journal of Mathematical Sociology*, 14(2-3): 171-208. DOI: [10.1080/0022250X.1989.9990049](https://doi.org/10.1080/0022250X.1989.9990049)
- Kathleen M. Carley, 1986, "Knowledge Acquisition as a Social Phenomenon," *Instructional Science*, 14(3-4): 381-438. DOI: [10.1007/BF00051829](https://doi.org/10.1007/BF00051829)
- Kathleen M. Carley, 1986, "An Approach for Relating Social Structure to Cognitive Structure," *Journal of Mathematical Sociology*, 12(2):137-189. DOI: [10.1080/0022250X.1986.9990010](https://doi.org/10.1080/0022250X.1986.9990010)

CHAPTERS IN EDITED VOLUMES AND PROCEEDINGS

- Imane Khaouja, Ibrahim Rahal, Mehdi El, Ghita Mezzour, Kathleen M. Carley, Kassau, 2018-forthcoming, *Analyzing the Needs of the Offshore Sector in Morocco*, EDUCON 2018
- Sumeet Khumar and Kathleen M. Carley, 2017, "Simulating Attacks on the US Fiber-Optics Internet Infrastructure," In *Proceedings of the Winter Simulation Conference 2017*, Las Vegas, NV
- Adam Tse and Kathleen M. Carley, 2017, "Socio-cultural Cognitive Mode Event-based Model Simulating the Change in DDoS Attack Trends after P/DIME Events." In *Proceedings of the International Conference SBP-BRiMS 2017*, Dongwon Lee, YuRu Lin, Robert Thompson and Nathaniel Osgood (Eds.) July 5-8, 2017 Washington DC, Springer.
- Aman Ahuja, Wei Wei, and Kathleen M. Carley, 2016, "Microblog Sentiment Topic Model," In *Data Mining Workshops (ICDMW)*, 2016 IEEE 16th International Conference on, Barcelona Spain, IEEE 2016, 1031-1038
- Larry Lin, Kathleen M. Carley, and Shih-Fen Cheng, 2016, "An Agent-Based Approach to Human Migration Movement," In *Proceedings of the 2016 Winter Simulation Conference* T. M. K. Roeder, P. I. Frazier, R. Szechtman, E. Zhou, T. Huschka, and S. E. Chick, eds.
- Sumeet Kumar, Matthew Benigni and Kathleen M. Carley, 2016, "The Impact of US Cyber Policies on Cyber-Attacks Trend," *Intelligence and Security Informatics (ISI)*, In *Proceedings of the 2016 IEEE International Conference*, Tuscan, AZ, September 28-30, 2016.
- Sumeet Kumar and Kathleen M. Carley, 2016, "Understanding DDoS Cyber-Attacks using Social Media Analytics," *Intelligence and Security Informatics (ISI)*, In *Proceedings of the 2016 IEEE International Conference*, Tuscan, AZ, September 28-30, 2016.
- Sumeet Kumar and Kathleen M. Carley, 2016, "Approaches to Understanding the Motivations Behind Cyber Attacks," *Intelligence and Security Informatics (ISI)*, In *Proceedings of the 2016 IEEE International Conference*, Tuscan, AZ, September 28-30, 2016.
- Matthew Benigni and Kathleen M. Carley, 2016, "From Tweets to Intelligence: Understanding the Islamic Jihad Supporting Communities in Twitter," In *Proceedings of the International Conference SBP-BRiMS 2016*, Kevin

- S. Xu, David Reitter, Dongwon Lee and Nathaniel Osgood (Eds.) June 28-July 1, 2016 Washington DC, Springer, DOI: [10.1007/978-3-319-39931-7](https://doi.org/10.1007/978-3-319-39931-7).
- Wei Wei, Kenneth Joseph, Huan Liu, and Kathleen M. Carley, 2015, "The Fragility of Twitter Social Networks Against Suspended Users." In Proceedings of 2015 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), August 25-28, 2015, Paris, FR. 9-16, DOI: [10.1145/2808797.2809316](https://doi.org/10.1145/2808797.2809316).
- Kathleen M. Carley, Wei Wei and Kenneth Joseph, Nov 2015, "High Dimensional Network Analytics: Mapping Topic Networks in Twitter Data During the Arab Spring" In Shuguan Cui, Alfred Hero, Zhi-Quan Luo and Jose Moura (eds) Big Data Over Networks, Cambridge University Press.
- Ghita Mezzour, Kathleen M. Carley and L. Richard Carley, 2015, "An Empirical Study of Global Malware Encounters," In Proceedings of the ACM Symposium and Bootcamp on the Science of Security (HotSos), Urbana IL, April 2015, DOI: [10.1145/2746194.2746202](https://doi.org/10.1145/2746194.2746202).
- Kenneth Joseph, R. Jose, and Kathleen M. Carley, 2012, "Leveraging media repertories to create new social ties," In Proceedings of 14th International Conference on Ubiquitous Computing, UbiComp 2012; Pittsburgh, PA; United States. 798-799, DOI: [10.1145/2370216.2370398](https://doi.org/10.1145/2370216.2370398).
- Kenneth Joseph, Chun How Tan and Kathleen M. Carley, 2012, "Beyond 'Local', 'Categories' and 'Friends': Clustering foursquare Users Using Latent 'Topics'" 4th International Workshop on Location-Based Social Networks (LBSN 2012) at UBICOM Sept 8, 2012 - Pittsburgh, PA. Best Paper Award.
- Jun Ai, H. Zhao, Kathleen M. Carley, Z. Su, and H. Li, 2012, "Unusual evolution of IPv6 internet topology," In Proceedings of 2012 8th International Conference on Wireless Communications, Networking and Mobile Computing, WiCOM 2012; Shanghai; China. DOI: [10.1109/WiCOM.2012.6478734](https://doi.org/10.1109/WiCOM.2012.6478734).
- Marc Spraragen, Peter Landwehr, Balakrishnan Ranganathan, Michael Zyda, Kathleen M. Carley, Yu-Han Chang, and Rajiv Maheswaran, 2012, "Social and Behavioral Modeling in an Online Multiplayer Game." In the proceedings of Applied Human Factors and Ergonomics (AHFE) 2012, July 23-25, 2012, San Francisco, California.
- Alla Khadka, Ahmed Abdulla, Miray Kas, William Frankenstein, Kathleen M. Carley and L. Richard Carley, 2012, "Nuclear Security and Iran: Developing a methodology to assess a country's nuclear capability," In proceedings of the 70th Annual Midwest Political Science Association (MPSA) Conference, Section: Convergence of Ideology and the Nuclear Ambitions of Iran, Chicago, Illinois, April 12-15, 2012.
- Peter M. Landwehr, Marc Spraragen, Balki Ranganathan, Kathleen M. Carley and Michael Zyda, 2012, "Games, Social Simulations, and Data—Integration for Policy Decisions: The SUDAN Game," Simulation & Gaming, Sep. 2012. DOI: 10.1177/1046878112456253, Also available on-line at Management INK - <http://managementink.wordpress.com>
- Cathleen M. Stuetzer, Kathleen M. Carley, T. Koehler, and G. Thiem, 2011, The communication infrastructure during the learning process in web based collaborative learning systems, In Proceedings of 3rd International Web Science Conference, WebSci 2011; Koblenz; Germany, 17. DOI: [10.1145/2527031.2527045](https://doi.org/10.1145/2527031.2527045).
- John Horgan, Michael J. Kenney, Mia Bloom, Cale Horne, Kurt Braddock, Peter Vining, Nicole Zinni, Kathleen M. Carley and Michael Bigrigg, 2011, "Adversarial Behavior in Complex Adaptive Systems: An Overview of ICST's Research on Competitive Adaptation in Militant Networks." In proceedings of HCII, Orlando, FL, July 9-14, 2011. Available at SSRN: <http://ssrn.com/abstract=1642196>.
- Michael J. Lanham, Geoffrey P. Morgan and Kathleen M. Carley, 2011, "Data-Driven Diffusion Modeling to Examine Deterrence," In proceedings of IEEE NSW 2011, 1st International Workshop on Network Science, West Point, New York, June 22-24, 2011, pp. 1-8. DOI: [10.1109/NSW.2011.6004651](https://doi.org/10.1109/NSW.2011.6004651).
- Cathleen M. Stuetzer, Thomas Koehler, Kathleen M. Carley and Gerhard Thiem, 2011, "The Impact of Brokers in Collaborative E-Learning Systems," In proceedings of the 8th Conference on Applications of Social Network Analysis (ASNA) 2011, September 13-16, 2011, Zurich, Switzerland: Elsevier.
- Kathleen M. Carley, Eric Malloy and Neal Altman, 2011, "Multi-Agent Modeling of Biological and Chemical Threats," Infectious Disease Informatics and Biosurveillance, Edited by Zeng, D.; Chen, H.; Castillo-Chavez, C.; Lober, W.B.; Thurmond, M. (Eds.), Springer, New York, Ch. 16: 361-380.
- Michael K. Martin, Kathleen M. Carley, P. Sauk, P. Perrin and A. Woolley, 2011, "Tracking Commander's Intent in Dynamic Networks." In proceedings of the 30th IEEE Military Communications Conference, Baltimore, MD, Nov 7-10, 2011, pp. 1517-1522. DOI: [10.1109/MILCOM.2011.6127522](https://doi.org/10.1109/MILCOM.2011.6127522).

- Jürgen Pfeffer and Kathleen M. Carley, 2011, "Modeling and Calibrating Real World Interpersonal Networks," In proceedings of 2011 IEEE 1st International Network Science Workshop (NSW 2011), West Point, New York, June 22-24, 2011, pp. 9-16. DOI: [10.1109/NSW.2011.6004652](https://doi.org/10.1109/NSW.2011.6004652).
- John Horgan, Michael J. Kenney, Kathleen Carley, Mia M. Bloom, Cale D. Horne, Kurt Braddock, Peter Vining and Nicole Zinni, 2010, "Adversarial Behavior in Complex Adaptive Systems: An Overview of ICST's Research on Competitive Adaptation in Militant Network," In proceedings of APSA 2010 Annual Meeting, Washington, D.C., Available at: <http://ssrn.com/abstract=1642196>.
- D. Sun, J. Wu, S. Zheng, B. Hu and Kathleen M. Carley, 2009, Topological analysis and measurements of an online Chinese student social network, In Proceedings of 1st International Conference on Complex Sciences: Theory and Applications, Complex 2009; Shanghai; China, Lecture Notes in Computer Sciences: Social-Informatives and telecommunications Engineering, 4(1): 737-748. DOI: [10.1007/978-3-642-02466-5_72](https://doi.org/10.1007/978-3-642-02466-5_72).
- Ian McCulloh, Eric Daimler, Kathleen M. Carley, 2008, "Using Term-Frequency-Inverse-Document Frequency of Email to Detect Change in Social Groups," In proceedings of the 2008 International Conference on Information & Knowledge Engineering (IKE 2008), Las Vegas, Nevada, July 14-17, 2008, CSREA Press, pp. 333-337.
- Ian McCulloh, Eric Daimler, Kathleen M. Carley, 2008, "Using Latent Semantic Analysis of Email to Detect Change in Social Groups," In proceedings of the 2008 International Conference on Data Mining (DMIN 2008), Las Vegas, July 14-17, 2008, CSREA Press, pp. 613-618.
- Jamie Olson and Kathleen M. Carley, 2008, Distributed coordination and network structure: Experimental results from simulation, In Proceedings of 2008 AAAI Workshop; Chicago, IL; United States, AAAI Workshop – Technical Reports WS-08-03: 56-60.
- George B. Davis, Michael Benisch, Kathleen M. Carley and Norman M. Sadeh, 2007, "Factoring Games to Isolate Strategic Interactions," In proceedings of the AAMAS '07 Conference, Honolulu, HI, May 14-18, 2007. DOI: [10.1145/1329125.1329207](https://doi.org/10.1145/1329125.1329207).
- Il-Chul Moon and Kathleen M. Carley, 2007, "Self-Organizing Social and Spatial Networks under What-if Scenarios," In proceedings of AAMAS, Honolulu, Hawaii, May 14-18, 2007, pp. 127-134. DOI: [10.1145/1329125.1329430](https://doi.org/10.1145/1329125.1329430).
- Robert Popp, Stephen H. Kaisler, David Allen, Claudio Cioffi-Revilla, Kathleen M. Carley, Mohammed Azam, Anne Russell, Nazli Choucri and Jacek Kugler, 2006, "Assessing Nation-State Instability and Failure," IEEE Aerospace Conference, Big Sky, MT, electronic publication, DOI: [10.1109/AERO.2006.1656054](https://doi.org/10.1109/AERO.2006.1656054)
- Maksim Tsvetovat and Kathleen M. Carley, 2006, "Improving Effectiveness of Communications Sampling of Covert Networks," E-Social Science Conference, Manchester, UK, electronic publication: <http://www.ncess.ac.uk/events/conference/2006/papers/papers/TsvetovatCommunicationsSampling.pdf>
- Shawn Weil, Kathleen M. Carley, Jana Diesner, Jared Freeman and Nancy Cooke, 2006, "Measuring Situational Awareness through Analysis of Communications: A Preliminary Exercise," In proceedings of the 8th International Command and Control Research and Technology Symposium. National Defense War College, Washington D.C.
- Li-Chiou Chen, Thomas A. Longstaff and Kathleen M. Carley, 2005 "The Provision of Defenses Against Internet-based Attacks," In Readings and Cases in the Management of Information Security, Edited by Mike Whitman and Herb Mattord, Course Technology/Thomson Learning, Reading 9.
- Kathleen M. Carley, 2004, "Estimating Vulnerabilities in Large Covert Networks Using Multi-Level Data," In proceedings of the NAACSOS 2004 Conference, Pittsburgh, PA, June 27-29, 2004, electronic publication: http://www.casos.cs.cmu.edu/events/conferences/2004/2004_proceedings/Carley.Kathleen.doc
- Li-Chiou Chen, Kathleen M. Carley, Boris Kaminsky, Tiffany Tummino, Elizabeth Casman, Douglas Fridsma and Alex Yahja, 2004, "Aligning Simulation Models of Biological Attacks," In proceedings of the NAACSOS 2004 Conference, Pittsburgh, PA, June 27-29, 2004, electronic publication: http://www.casos.cs.cmu.edu/publications/papers/chen_2004_aligningbiological.pdf
- Li-Chiou Chen, Thomas A. Longstaff and Kathleen M. Carley, 2004. "The economic incentives providing network security defenses on the Internet infrastructure," In proceedings of American Conference on Information Systems, August 2004.
- Kathleen M. Carley, 2003, "Dynamic Network Analysis," In Dynamic Social Network Modeling and Analysis: Workshop Summary and Papers, Edited by Ronald Breiger, Kathleen Carley and Philippa Pattison, (Eds.), Committee on Human Factors, National Research Council, National Research Council, Session 2: 133-145.

- Kathleen M. Carley, 2003, "Linking Capabilities to Needs," in Dynamic Social Network Modeling and Analysis: Workshop Summary and Papers, Edited by Ronald Breiger, Kathleen Carley and Philippa Pattison, (Eds.), Committee on Human Factors, National Research Council, National Research Council, pp. 361-370.
- Kathleen M. Carley, Douglas Fridsma, Elizabeth Casman, Neal Altman, J. Chang, Boris Kaminsky, Demian Nave and Alex Yahja. 2003. "BioWar: Scalable Multi-Agent Social and Epidemiological Simulation of Bioterrorism Events," NAACSOS Conference 2003, Pittsburgh, PA, June 22-25, 2003, Day 4, Electronic Publication, <http://www.casos.cs.cmu.edu/events/conferences/2003/proceedings.html>
- Kathleen M. Carley, Jeffrey Reminga and Steve Borgatti, 2003, "Destabilizing Dynamic Networks Under Conditions of Uncertainty," In proceedings of International Conference on Integration of Knowledge Intensive Multi-Agent Systems, IEEE KIMAS, Boston MA. DOI: [10.1109/KIMAS.2003.1245033](https://doi.org/10.1109/KIMAS.2003.1245033).
- Matthew Dombroski, Paul Fischbeck and Kathleen M. Carley. 2003, "An Empirically-Based Model for Network Estimation Under Uncertainty and Policy Analysis," NAACSOS Conference 2003, Pittsburgh, PA, June 22-25, 2003, Day 2, Electronic Publication, <http://www.casos.cs.cmu.edu/events/conferences/2003/proceedings.html>
- Max Tsvetovat and Kathleen M. Carley. 2003, "Bouncing Back: Recovery Mechanisms of Covert Networks," NAACSOS Conference 2003, Pittsburgh, PA, June 22-25, 2003, Day 3, Electronic Publication, <http://www.casos.cs.cmu.edu/events/conferences/2003/proceedings.html>
- Max Tsvetovat, Jeffrey Reminga and Kathleen M. Carley. 2003, "DyNetML: Interchange Format for Rich Social Network Data," NAACSOS Conference 2003, Pittsburgh, PA, June 22-25, 2003, Day 2, Electronic Publication, <http://www.casos.cs.cmu.edu/events/conferences/2003/proceedings.html>
- Michael J. Prietula and Kathleen M. Carley, 2002, "TAG Models with Emotion." In AAAI FLAIRS 2002 Conference, pp. 87-88.
- Kathleen M. Carley. 2002, "Stopping Adaptation," CASOS Conference 2002, Pittsburgh, PA, June 15-20, 2002, Day 1, Electronic Publication, <http://www.casos.cs.cmu.edu/events/conferences/2002/pdf/day1.pdf>
- Kathleen M. Carley, 2002, "Enhanced Knowledge-Based Human Organization and Social Change," In Converging Technologies for Improving Human Performance: Nanotechnology, Biotechnology, Information Technology and Cognitive Science, Edited by Mihail C. Roco and William Sims Bainbridge (Eds.), NSF/DOC-sponsored report, pp. 270-275, Prepublication version at <http://itri.loyola.edu/ConvergingTechnologies/Report>
- David Dekker, Kathleen M. Carley and David Krackhardt. 2002, "How Do Social Networks Affect Organizational Knowledge Utilization?" CASOS Conference 2002, Pittsburgh, PA, June 15-20, 2002, Day 3, Electronic Publication, <http://www.casos.cs.cmu.edu/events/conferences/2002/pdf/day2.pdf>
- Matthew J. Dombroski and Kathleen M. Carley, 2002, "NETEST: Estimating a Terrorist Network's Structure," Computational and Mathematical Organization Theory, Pittsburgh, PA, 8: 235-241. Graduate Student Best Paper Award, CASOS 2002 Conference, June 15-20, 2002.
- Max Tsvetovat and Kathleen M. Carley. 2002, "Knowing the Enemy: A Simulation of Terrorist Organizations and Counter-Terrorism Strategies," CASOS Conference 2002, Pittsburgh, PA, June 15-20, 2002, Day 3, Electronic Publication, <http://www.casos.cs.cmu.edu/events/conferences/2002/pdf/day2.pdf>
- Kathleen M. Carley, 2001, "Learning and Using New Ideas: A Sociocognitive Perspective," In Diffusion Processes and Fertility Transition: Selected Perspectives, National Research Council, Washington DC, National Academy Press, Ch. 6: 179-207.
- Yuqing Ren, Kathleen M. Carley and Linda Argote. 2001, "Simulating the Role of Transactive Memory in Group Training and Performance," CASOS Conference 2001, Pittsburgh, PA, July 9-15, 2001, Day 3, Electronic Publication, <http://www.casos.cs.cmu.edu/events/conferences/2001/booklette.pdf>
- Max Tsvetovat, Kathleen M. Carley and Katia Sycara. 2001, "Specialists, Generalists and Market Segmentation: A Multi-Agent Model," CASOS Conference 2001, Pittsburgh, PA, July 9-15, 2001, Day 1, Electronic Publication, <http://www.casos.cs.cmu.edu/events/conferences/2001/booklette.pdf>
- Manju Ahuja and Kathleen M. Carley, 1995, "Distributed Design Groups: A Case Study," Proceedings of the Inaugural Americas Conference on Information Systems, Pittsburgh, PA, p. 81.
- Jane Siegel, Robert E. Kraut, Bonnie E. John and Kathleen M. Carley, 1995, "An Empirical Study of Collaborative Wearable Computer Systems," Human Factors in Computing Systems: CHI Companion 95, Edited by In Katz, Irvin, Mack, Robert and Marks, Linn (Eds), Denver, CO., New York: The Association of Computing Machinery, pp. 312-313.

Sara Kiesler, Doug Wholey and Kathleen M. Carley, 1994, "Coordination as 'Linkage:' The Case of Software Development Teams," *Organizational Linkages: Understanding the Productivity Paradox*, Edited by D.H. Harris (Ed.), Washington D.C.: National Academy Press. Ch. 9: 214-239.

Kathleen M. Carley, Sara Kiesler and Doug Wholey, 1993, "Learning Teamwork: Studies of Training in Software Development," In proceedings of the 1993 Coordination Theory and Collaboration Technology Workshop. Symposium conducted for the National Science Foundation, Washington, D.C.

Kathleen M. Carley with Kira Wendt, 1992, "Electronic Mail and Scientific Communication: A Study of the Soar Extended Research Group," *The Soar Papers: Research on Integrated Intelligence*, Edited by Rosenbloom P.S., J.E. Laird and A. Newell (Eds.), Cambridge, MA: MIT Press. Reprinted from *Knowledge: Creation, Diffusion, Utilization*, 12.4: 406-440.

Kathleen M. Carley, 1991, "Growing Up: The Development and Acquisition of Social Knowledge," *The Self-Society Dynamic: Cognition, Emotion and Action*. Edited by Howard J. and Callero P. (Eds.), Cambridge, England: Cambridge University Press, Ch. 4: 72-105.

ARTICLES: METHODOLOGY

REFEREED PUBLICATIONS

Geoffrey Dobson, Tim Snehla, and Kathleen M. Carley, 2017 forthcoming, Towards a Network Science Enhanced Cyber Situational Awareness Dashboard, *International Journal on Cyber Situational Awareness (IJCSA)* London, UK, 2(1):

Geoffrey P. Morgan, Michael J. Lanham, William Frankenstein, and Kathleen M. Carley, 2017 forthcoming, Sociocultural Models of Nuclear Deterrence, *IEEE Transactions on Computational Social Systems*,

Marge M. Benham-Hutchins, Barbara B. Brewer, Kathleen M. Carley, Michael Kowalchuk, and Judith A. Effken, Summer 2017, Design and Implementation of a Data Collection System for Social Network Analysis, *Online Journal of Nursing Informatics. (OJNI)*, 21(2), Available at <http://www.himss.org/ojni>

Viswanath Gunturi, Shashi Shekhar, Kenneth Joseph and Kathleen M. Carley, 2016, Scalable Computational Techniques for Centrality Metrics on Temporally Detailed Social Network, *Machine Learning*, pp.1-37. DOI: [10.1007/s10994-016-5583-7](https://doi.org/10.1007/s10994-016-5583-7).

Tracy van Holt, Jeffrey C. Johnson, Shiloh Moates, and Kathleen M. Carley, 2016, The Role of Datasets on Scientific Influence within Conflict Research, *PLoS One* 11(4). DOI: [10.1371/journal.pone.0154148](https://doi.org/10.1371/journal.pone.0154148).

Peter M. Landwehr, Wei Wei, Michael Kowalchuk and Kathleen M. Carley, 2016, Using Tweets to Support Disaster Planning, Warning and Response, *Safety Science*, 90: 33-47. DOI: [10.1016/j.ssci.2016.04.012](https://doi.org/10.1016/j.ssci.2016.04.012).

Kenneth Joseph, Wei Wei, Matthew Benigni and Kathleen M. Carley, 2016, A Social-event Based Approach to Sentiment Analysis of Identities and Behaviors in Text. *Journal of Mathematical Sociology*. 40(3): 137-166.

Wei Wei and Kathleen M. Carley, 2015, Measuring temporal patterns in dynamic social networks. *ACM Transactions on Knowledge Discovery from Data (TKDD)*, 10(1): 9. DOI: [10.1145/2749465](https://doi.org/10.1145/2749465).

Miray Kas, Kathleen M. Carley, and L.Richard Carley, 2015, An Incremental Algorithm for Updating Betweenness Centrality and k-Betweenness Centrality and Its Performance on Realistic Dynamic Social Network Data. *Social network analysis and mining (SNAM)*. Springer Vienna. 4(1): 234-256, Jan 9, 2015. DOI: [10.1007/s13278-014-0235-z](https://doi.org/10.1007/s13278-014-0235-z).

Kenneth Joseph, Kathleen M. Carley, and Jason I. Hong, 2014, Check-ins in "Blau space": Applying Blau's macro-sociological theory to foursquare check-ins from New York City. *ACM Transactions on Intelligent Systems and Technology*. 5:3. DOI: [10.1145/2566617](https://doi.org/10.1145/2566617).

Miray Kas, Kathleen M. Carley, and L.Richard Carley, 2013, Incremental Closeness Centrality for Dynamically Changing Social Networks. Workshop on the Semantic and Dynamic Analysis of Information Networks (SDAIN'13). In Proceedings of the 2013 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), August 25-28, 2013, Niagara Falls, Canada. DOI: [10.1145/2492517.2500270](https://doi.org/10.1145/2492517.2500270).

Miray Kas, Matthew Wachs, Kathleen M. Carley, and L.Richard Carley, 2013, Incremental Computation of Betweenness Centrality for Dynamically Growing Networks. In Proceedings of the 2013 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM'13), August 25-28, 2013, Niagara Falls, Canada. DOI: [10.1145/2492517.2492533](https://doi.org/10.1145/2492517.2492533).

- Tracy Van Holt, Jeffrey C. Johnson, Kathleen M. Carley, James Brinkley, and Jana Diesner, 2013, "Rapid ethnographic assessment for cultural mapping." *Poetics*, 41:366-383. DOI: [10.1016/j.poetic.2013.05.004](https://doi.org/10.1016/j.poetic.2013.05.004).
- Michael K. Martin, Jürgen Pfeffer, and Kathleen M. Carley. 2013, "Network Text Analysis of Conceptual Overlap in Interviews, Newspaper Articles and Keywords." *Social Network Analysis and Mining*, 3(4): 1165-1177. DOI: [10.1007/s13278-013-0129-5](https://doi.org/10.1007/s13278-013-0129-5).
- Jun Ai, Hai Zhao, Kathleen M. Carley, Zhan Su and Hui Li. 2013, "Neighbor Vector Centrality of Complex Network based on Neighbors Degree Distribution." *European Physical Journal B (EPJB)*. SCI(Q2), IF 1.534.
- Jürgen Pfeffer and Kathleen M. Carley. 2013, "The Importance of Local Clusters for the Diffusion of Opinions and Beliefs in Interpersonal Communication Networks," *International Journal of Innovation and Technology Management*, 10(5): DOI: [10.1142/S0219877013400221](https://doi.org/10.1142/S0219877013400221).
- Aparna Gullapalli and Kathleen M. Carley, 2013, "Extracting Ordinal Temporal Trail Clusters in Networks using Symbolic Time Series Analysis" *Social Network Analysis and Mining*. Springer Vienna. January 2013: 1-16. DOI: [10.1007/s13278-012-0091-7](https://doi.org/10.1007/s13278-012-0091-7).
- Kathleen M. Carley, Geoffrey Morgan, Michael Lanham, Jürgen Pfeffer, 2012, "Multi-Modeling and Sociocultural Complexity." In: D.D. Schmorrow, D.M. Nicholson (Eds.), *Advances in Design for Cross-Cultural Activities Part II*, CRC Press, pp. 128-137. Reprinted from: Kathleen M. Carley, Geoffrey Morgan, Michael Lanham and Jürgen Pfeffer, 2012, "Multi-Modeling and Socio-cultural complexity: Reuse and Validation," In proceedings of the 2nd International Conference on Cross-Cultural Decision Making: Focus 2012, San Francisco, CA, July 21-25, 2012.
- Kathleen M. Carley, Michael W. Bigrigg, Boubacar Diallo, 2012, "Data-to-Model: A Mixed Initiative Approach for Rapid Ethnographic Assessment," *Computational and Mathematical Organization Theory*, 18(3): 300-27. DOI: [10.1007/s10588-012-9125-y](https://doi.org/10.1007/s10588-012-9125-y)
- Kathleen M. Carley and Jürgen Pfeffer, 2012, "Dynamic Network Analysis (DNA) and ORA." In: D. D. Schmorrow, D.M. Nicholson (Eds.), *Advances in Design for Cross-Cultural Activities Part I*, CRC Press, pp. 265-274. Reprinted from: Kathleen M. Carley and Jürgen Pfeffer, 2012, "Dynamic Network Analysis (DNA) and ORA," In proceedings of the 2nd International Conference on Cross-Cultural Decision Making: Focus 2012, San Francisco, CA, July 21-25, 2012.
- Ian A. McCulloh, Anthony Norvell Johnson, and Kathleen M. Carley, 2012, "Spectral Analysis of Social Networks to Identify Periodicity." *The Journal of Mathematical Sociology*, 36(2): 80-96. DOI: [10.1080/0022250X.2011.556767](https://doi.org/10.1080/0022250X.2011.556767)
- Jana Diesner and Kathleen M. Carley, 2012, "Impact of Relation Extraction Methods from Text Data on Network Data and Analysis Results," In Proceedings of the ACM Web Science Conference (WebSci 2012), Evanston, IL, June 22-24, 2012.
- Jana Diesner, Laurent Tambayong, Kathleen M. Carley, 2012, "Extracting socio-cultural networks of the Sudan from open-source, large-scale text data," *Computational and Mathematical Organization Theory*, 18(3): 328-339. DOI: [10.1007/s10588-012-9126-x](https://doi.org/10.1007/s10588-012-9126-x)
- Jürgen Pfeffer and Kathleen M. Carley, 2012, "Rapid Modeling and Analyzing Networks Extracted from Pre-Structured News Articles," *Computational and Mathematical Organization Theory*, 18(3): 280-299. DOI: [10.1007/s10588-012-9122-1](https://doi.org/10.1007/s10588-012-9122-1)
- Judith Gelernter, Dong Cao and Kathleen M. Carley, 2012, "Extraction of Spatio-Temporal Data for Social Networks," in T. Özyer et. al, *The Influence of Technology on Social Network Analysis and Mining*. Springer.
- Miray Kas, Sandeep Appala, Chao Wang, Kathleen M. Carley, L. Richard Carley and Ozan K. Tonguz, 2012, "What if Wireless Routers were Social? Analyzing Wireless Mesh Networks from a Social Networks Perspective," *IEEE Wireless Communications Magazine*. 1536-1284: 36-43. DOI: [10.1109/MWC.2012.6393516](https://doi.org/10.1109/MWC.2012.6393516).
- Jürgen Pfeffer and Kathleen M. Carley, 2012, "k-Centralities: Local Approximations of Global Measures Based on Shortest Paths," In proceedings of the WWW Conference 2012, 1st International Workshop on Large Scale Network Analysis (LSNA 2012), Lyon, France, 1043-1050.
- Eric A. Daimler, James H. Morris and Kathleen M. Carley, 2012, "Exploration in Automated Systems for Analyzing Public Policy Documents," In Zhihong Qian, Lei Cao, Weilian Su, Tingkai Wang & Huamin Yang (Eds.), *Recent Advances in Computer Science and Information Engineering*, 126: 741-747. Berlin, Germany: Springer Berlin Heidelberg. DOI: [10.1007/978-3-642-25766-7_98](https://doi.org/10.1007/978-3-642-25766-7_98).

- Ian A. McCulloh, Anthony Norvell Johnson and Kathleen M. Carley, 2012, "Spectral Analysis of Social Networks to Identify Periodicity," *Journal of Mathematical Sociology*, 36(2): 80-96. DOI: [10.1080/0022250X.2011.556767](https://doi.org/10.1080/0022250X.2011.556767).
- Geoffrey P. Morgan and Kathleen M. Carley, 2012, "Modeling Explicit and Implicit Ties within an Organization: A Multiple Model Integration," In proceedings of BRiMS 2012, Amelia Island, FL, March 12-15, 2012.
- Bradley Schmerl, David Garlan, Vishal Dwivedi, Michael Bigrigg and Kathleen Carley, 2011, "SORASCS: A Case Study in SOA-based Platform Design for Socio-Cultural Analysis," In proceedings of the 33rd International Conference on Software Engineering, Waikiki Honolulu, Hawaii, May 21-28, 2011. DOI: [10.1145/1985793.1985883](https://doi.org/10.1145/1985793.1985883).
- Edoardo M. Airoldi, Xue Bai and Kathleen M. Carley, 2011, "Network sampling and classification: An investigation of network model representations," *Decision Support Systems*, 51(3): 506-518. DOI: [10.1016/j.dss.2011.02.014](https://doi.org/10.1016/j.dss.2011.02.014).
- Brian Hirshman, Jesse St. Charles and Kathleen M. Carley, 2011, "Leaving us in tiers: can homophily be used to generate tiering effects?," *Computational and Mathematical Organization Theory*, 17(4): 318-343. DOI: [10.1007/s10588-011-9088-4](https://doi.org/10.1007/s10588-011-9088-4).
- Yi Chang, Jana Diesner and Kathleen M. Carley, 2011, "Towards Automated Definition Acquisition from Operations Law," *Transaction/Journal: IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews*, 42(2): 223-232. DOI: [10.1109/TSMCC.2011.2110643](https://doi.org/10.1109/TSMCC.2011.2110643).
- David Garlan, Bradley Schmerl, V. Dwivedi, Michael Bigrigg and Kathleen M. Carley, 2011, "Specifying Workflows in SORASCS to Automate and Share Common HSCB Processes," In proceedings of HSCB Focus 2011: Integrating Social Science Theory and Analytic Methods for Operational Use, Chantilly, VA, February 8-10, 2011.
- Ju-Sung Lee and Kathleen M. Carley, 2011, "Inferring Logit Models from Empirical Margins Using Proxy Data," *Sociological Methodology*, 41(1): 77-118. DOI: [10.1111/j.1467-9531.2011.01247.x](https://doi.org/10.1111/j.1467-9531.2011.01247.x)
- Ian McCulloh and Kathleen M. Carley, 2011, "Detecting Change in Longitudinal Social Networks," *Journal of Social Structure*, 12.3. Available: <http://www.cmu.edu/joss/content/articles/volindex.html>
- Bradley Schmerl, David Garlan, D. V. Dwivedi, Michael Bigrigg and Kathleen M. Carley, 2011, "SORASCS: A Case Study in SOA-based Platform Design for Socio-Cultural Analysis," In Proceedings of 33rd International Conference on Software Engineering, Waikiki Honolulu, Hawaii, May 21-28, 2011.
- L. Richard Carley and Kathleen M. Carley, 2010, "Social network aware routing and prefetching on dual-mode wireless networks." In GLOBECOM Workshops proceedings (GC Wkshps), 2010 IEEE, pp. 383-388. IEEE, 2010.
- Jana Diesner and Kathleen M. Carley, 2010, "A Methodology for Integrating Network Theory and Topic Modeling and its Application to Innovation Diffusion," In proceedings of Social Computing (SocialCom), 2010 IEEE Second International Conference on Social Computing, Minneapolis, Minnesota, August 20-22, 2010, Pp. 687-692. DOI: [10.1109/SocialCom.2010.106](https://doi.org/10.1109/SocialCom.2010.106)
- Terrill L. Frantz and Kathleen M. Carley, 2010, "Toward A Confidence Estimate For The Most-Central-Actor Finding," Sage Publications/RM division Best Student Paper Proceedings of the Academy of Management Annual Conference proceeding, Chicago, IL, USA.
- Kathleen M. Carley, 2009, "Computational Modeling for Reasoning About the Social Behavior of Humans," *Computational and Mathematical Organization Theory*, 15(1): 47-59. DOI: [10.1007/s10588-008-9048-9](https://doi.org/10.1007/s10588-008-9048-9)
- Terrill L. Frantz, Marcelo Cataldo and Kathleen M. Carley, 2009, "Robustness of centrality measures under uncertainty: Examining the role of network topology," *Computational and Mathematical Organization Theory*, 15(4):303-328. DOI: [10.1007/s10588-009-9063-5](https://doi.org/10.1007/s10588-009-9063-5)
- George B. Davis, Jamie F. Olson, Kathleen M. Carley. 2008. "Unsupervised Plan Detection with Factor Graphs." Proceedings of the Second international conference on Knowledge Discovery from Sensor Data, Las Vegas, NV, USA, August 24-27, 2008, Revised Selected Papers; 01/2008, pp. 59-75. DOI: [10.1007/978-3-642-12519-5_4](https://doi.org/10.1007/978-3-642-12519-5_4).
- George B. Davis and Kathleen M. Carley, 2008, "Clearing the FOG: Fuzzy, overlapping groups for social networks," *Social Networks*, 30(3): 201-212. DOI: [10.1016/j.socnet.2008.03.001](https://doi.org/10.1016/j.socnet.2008.03.001)

- Jana Diesner and Kathleen M. Carley, 2008, "Conditional Random Fields for Entity Extraction and Ontological Text Coding," *Computational and Mathematical Organization Theory*, 13(3): 248-262. Best Student Paper Award, NAACOS. DOI: [10.1007/s10588-008-9029-z](https://doi.org/10.1007/s10588-008-9029-z).
- Marcus A. Louie and Kathleen M. Carley, 2008, "Balancing the Criticisms: Validating Multi-Agent Models of Social Systems," in a special issue on "Simulating Organizational Processes" in *Simulation Modeling Practice and Theory*, 16.2: 242-256. DOI: [10.1016/j.simpat.2007.11.011](https://doi.org/10.1016/j.simpat.2007.11.011)
- George B. Davis, Michael Benisch, Kathleen M. Carley and Norman M. Sadeh, 2007, Factoring games to isolate strategic interactions. 6th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS 2007), Honolulu, Hawaii, USA, May 14-18, 2007; 01/2007.
- Kathleen M. Carley, Jana Diesner, Jeffrey Reminga and Maksim Tsvetovat, 2007, "Toward an Interoperable Dynamic Network Analysis Toolkit," DSS Special Issue on Cyberinfrastructure for Homeland Security: *Advances in Information Sharing, Data Mining and Collaboration Systems*, 43(4): 1324-1347. DOI: [10.1016/j.dss.2006.04.003](https://doi.org/10.1016/j.dss.2006.04.003)
- Richard Harrison, Zhang Lin, Glenn Carroll and Kathleen M. Carley, 2007, "Simulation Modeling in Organizational and Management Research," *Academy of Management Review*, 32(4):1229-1245.
- Fei-Yue Wang, Kathleen M. Carley, Daniel Zeng and Wenji Mao, 2007, "Social Computing: From Social Informatics to Social Intelligence," *IEEE Intelligent Systems*, 22(2):79-83. DOI: [10.1109/MIS.2007.41](https://doi.org/10.1109/MIS.2007.41)
- Stephen Borgatti, Kathleen M. Carley and David Krackhardt, 2006, "Robustness of Centrality Measures under Conditions of Imperfect Data," *Social Networks*, 28(2):124-136. DOI: [10.1016/j.socnet.2005.05.001](https://doi.org/10.1016/j.socnet.2005.05.001)
- Kathleen M. Carley, Douglas Fridsma, Elizabeth Casman, Neal Altman, Li-Chiou Chen, Boris Kaminsky, Demian Nave and Alex Yahja, 2006. "A Model of Biological Attacks on a Realistic Population," *Unifying Themes in Complex Systems*, 5, pp. 81-88. DOI: [10.1007/978-3-642-17635-7_10](https://doi.org/10.1007/978-3-642-17635-7_10).
- Kathleen M. Carley, Douglas Fridsma, Elizabeth Casman, Alex Yahja, Neal Altman, Li-Chiou Chen, Boris Kaminsky and Demian Nave, 2006. "BioWar: Scalable Agent-based Model of Bioattacks," *IEEE Transactions on Systems, Man and Cybernetics-Part A*, 36(2):252-265. DOI: [10.1109/TSMCA.2005.851291](https://doi.org/10.1109/TSMCA.2005.851291)
- Li-Chiou Chen, Kathleen M. Carley, Douglas Fridsma, Boris Kaminsky and Alex Yahja, 2006. "Model Alignment of Anthrax Attack Simulations," *Decision Support Systems*, special issue on Intelligence and Security Informatics, 41(3):654-668. DOI: [10.1016/j.dss.2004.06.012](https://doi.org/10.1016/j.dss.2004.06.012)
- Il-Chul Moon, Mike Schneider and Kathleen M. Carley, 2006, "Evolution of Player Skill in the America's Army Game," *Simulation*, 82(11):703-717. DOI: [10.1177/0037549706073689](https://doi.org/10.1177/0037549706073689)
- Edoardo M. Airoldi and Kathleen M. Carley, 2005, "Sampling Algorithms for Pure Network Topologies: A Study on the Stability and the Separability of Metric Embeddings," *SIGKDD Explorations: Special Issue on Link Mining*. 7(2):13-22, Available from: <http://www.acm.org/sigs/sigkdd/explorations/issues/7-2-2005-12/2-Airoldi.pdf>
- Bradley Malin, Edoardo M. Airoldi and Kathleen M. Carley. 2005, "A social network analysis model for name disambiguation in lists," *Computational and Mathematical Organization Theory*, 11(2):119-139. DOI: [10.1007/s10588-005-3940-3](https://doi.org/10.1007/s10588-005-3940-3)
- D. Michael Thomas, Scott L. Arough, Kathleen M. Carley, James B. Kraiman and Jonathan R. Davis, 2005, "Automated Anomaly Detection Processor for Bioterrorism Early Detection," In proceedings of National Syndromic Surveillance Conference 2004, In supplement of the Morbidity and Mortality Weekly Report (MMWR), 54:203. Available from: <http://www.cdc.gov/Mmwr/preview/mmwrhtml/su5401a49.html>
- Roger J. Chapman, John M. Graham, Kathleen M. Carley, Andrew Rosoff, and Ryan Paterson, 2005, "Providing insight into command post operations through sharable contextualized net-centric visualizations and analysis." In Proceedings of the 2005 Human Interaction with Complex Systems Symposium. Greenbelt, VA.
- Craig Schreiber and Kathleen M. Carley, 2004. "Going Beyond the Data: Empirical Validation Leading to Grounded Theory," *Computational and Mathematical Organization Theory*, 10(2):155-164. DOI: [10.1023/B:CMOT.0000039168.92625.9d](https://doi.org/10.1023/B:CMOT.0000039168.92625.9d)
- Brigham S. Anderson, Carter Butts and Kathleen M. Carley, 1999, "The Interaction of Size and Density with Graph-Level Measures," in *Social Networks*. 21:239-267. DOI: [10.1016/S0378-8733\(99\)00011-8](https://doi.org/10.1016/S0378-8733(99)00011-8)
- Kathleen M. Carley, 1999, "On Generating Hypotheses Using Computer Simulations," *Systems Engineering*, 2(2): 69-77. (short version in CCRTS Proceedings). DOI: [10.1002/\(SICI\)1520-6858\(1999\)2:2<69::AID-SYS3>3.0.CO;2-0](https://doi.org/10.1002/(SICI)1520-6858(1999)2:2<69::AID-SYS3>3.0.CO;2-0)

- Kathleen M. Carley, 1997, "Extracting Team Mental Models through Textual Analysis," *Journal of Organizational Behavior*, 18:533-538. DOI: [10.1002/\(SICI\)1099-1379\(199711\)18:1+<533::AID-JOB906>3.0.CO;2-3](https://doi.org/10.1002/(SICI)1099-1379(199711)18:1+<533::AID-JOB906>3.0.CO;2-3)
- Ashish Sanil, David Banks and Kathleen M. Carley, 1995, "Models for Evolving Fixed Node Networks: Model Fitting and Model Testing," *Social Networks*, 17(1):65-81. DOI: [10.1016/0378-8733\(94\)00249-A](https://doi.org/10.1016/0378-8733(94)00249-A)
- David Banks and Kathleen M. Carley, 1994, "Metric Inference for Social Networks," *Journal of Classification*, 11:121-149. DOI: [10.1007/BF01201026](https://doi.org/10.1007/BF01201026)
- Kathleen M. Carley, 1994, "Extracting Culture through Textual Analysis," *Poetics*, 22:291-312. DOI: [10.1016/0304-422X\(94\)90011-6](https://doi.org/10.1016/0304-422X(94)90011-6)
- Kathleen M. Carley, 1993, "Coding Choices for Textual Analysis: A Comparison of Content Analysis and Map Analysis," In Marsden P. (Ed.), *Sociological Methodology*, 23:75-126. Oxford: Blackwell. Reprinted in *Content Analysis*, edited by Roberto Franzosi (Ed.), December, 2007, SAGE Publications, London.
- Kathleen M. Carley and David Banks, 1993, "Nonparametric Inference for Network Data," *Journal of Mathematical Sociology*, 18(1):1-26. DOI: [10.1080/0022250X.1993.9990113](https://doi.org/10.1080/0022250X.1993.9990113)
- Kathleen M. Carley and David Kaufer, 1993, "Semantic Connectivity: An Approach for Analyzing Semantic Networks," *Communication Theory*, 3(3):183-213. DOI: [10.1111/j.1468-2885.1993.tb00070.x](https://doi.org/10.1111/j.1468-2885.1993.tb00070.x)
- David Kaufer and Kathleen M. Carley, 1993, "Condensation Symbols: Their Variety and Rhetorical Function in Political Discourse," *Philosophy and Rhetoric*, 26(3): 201-226.
- Kathleen M. Carley and Michael Palmquist, 1992, "Extracting, Representing and Analyzing Mental Models," *Social Forces*, 70(3):601-636.
- Kathleen M. Carley, 1988, "Formalizing the Social Expert's Knowledge," *Sociological Methods and Research*, 17(2): 165-232. DOI: [10.1177/0049124188017002003](https://doi.org/10.1177/0049124188017002003)

CHAPTERS IN EDITED VOLUMES AND PROCEEDINGS

- Aman Ahuja, Wei Wei, Wei Lu, Kathleen M. Carley and Chandan Reddy, 2017, "A Probabilistic Geographical Aspect-Opinion Model for Geo-tagged Microblogs," In Proc. of ICDM 2017, New Orleans, Nov. 2017.
- Yu Zhang, Wei Wei, Binxuan Huang, Kathleen M. Carley, and Yan Zhang, "RATE: Overcoming Noise and Sparsity of Textual Features in Real-Time Location Estimation." In Proc. of 2017 ACM Int. Conf. on Information and Knowledge Management (CIKM'17), Singapore, Nov. 2017
- Kathleen M. Carley, 2017, "ORA: A Toolkit for Dynamic Network Analysis and Visualization." In Reda Alhajj and Jon Rokne (Eds.) *Encyclopedia of Social Network Analysis and Mining*, Springer. DOI:10.1007/978-1-4614-7163-9_309-1
- Geoffrey P Morgan, Joel Levine and Kathleen M. Carley, 2017, "Socio-Cultural Cognitive Mapping." In Proceedings of the International Conference SBP-BRiMS 2017, Dongwon Lee, YuRu Lin, Robert Thompson and Nathaniel Osgood (Eds.) July 5-8, 2017 Washington DC, Springer.
- Binxuan Huang and Kathleen M. Carley, 2017, "On Predicting Geolocation of Tweets using Convolutional Neural Network." In Proceedings of the International Conference SBP-BRiMS 2017, Dongwon Lee, YuRu Lin, Robert Thompson and Nathaniel Osgood (Eds.) July 5-8, 2017 Washington DC, Springer.
- Fred Morstatter, Liang Wu, Taha H. Nazer, Kathleen M. Carley and Huan Liu, 2016, A New Approach to Bot Detection: The Importance of Recall, In the Proceedings of the 2016 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), California.
- Fred Morstatter, Kathleen M. Carley, Huan Liu, "Bot Detection in Social Media: Networks, Behavior, and Evaluation," (paper presented at the 2015 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2015). Paris, France, August 25-28, 2015).
- Will Frankenstein, Kenneth Joseph and Kathleen M. Carley, 2016, "Contextual Sentiment Analysis," In Proceedings of the International Conference SBP-BRiMS 2016, Kevin S. Xu, David Reitter, Dongwon Lee and Nathaniel Osgood (Eds.) June 28-July 1, 2016 Washington DC, Springer, DOI: [10.1007/978-3-319-39931-7](https://doi.org/10.1007/978-3-319-39931-7).
- Geoffrey P. Morgan and Kathleen M. Carley, 2015, *Computational Organization Theory*, In James D. Wright (editor-in-chief), *International Encyclopedia of the Social & Behavioral Sciences*, 2nd edition, Vol 4. Oxford: Elsevier. pp. 485-492. ISBN: 9780080970868
- Wei Wei, Kenneth Joseph, Lo Wei, and Kathleen M. Carley, 2015, A Bayesian Graphical Model to Discover Latent Events from Twitter. In Proceedings of the 9th The International AAAI Conference on Web and Social Media (ICWSM'2015), 2015.

- Kathleen M. Carley, 2015, Open Source Exploitation for Understanding Covert Networks, In *Illuminating Dark Networks: The Study of Clandestine Groups and Organizations*, Luke Gerdes (Ed), Cambridge University Press.
- Wei Wei and Kathleen M. Carley, 2014, "Real time closeness and betweenness centrality calculations on streaming network data," Proceedings of the Sixth ASE International Conference on Social Computing (SocialCom'2014). ASE, May 27-31, 2014.
- Kenneth Joseph, Peter M. Landwehr, Kathleen M. Carley, 2014, Two 1% Don't make a whole: Comparing simultaneous samples from Twitter's Streaming API, In Proceedings 7th International Conference on Social Computing, Behavioral-Cultural Modeling, and Prediction, SBP 2014; Washington, DC; United States; 1 April 2014 through 4 April 2014, Lecture notes in Computer Science, 8393: 75-83. DOI: [10.1007/978-3-319-05579-4_10](https://doi.org/10.1007/978-3-319-05579-4_10).
- Kathleen M. Carley, 2014, Dynamic Network Methods, In Egeth, J.E., Klein, G.L., and Schmorow, D. (Eds.). *Sociocultural behavior sensemaking: State of the art in understanding the operational environment*. McLean, VA: The MITRE Corporation.
- Kathleen M. Carley, 2014, ORA: A Toolkit for Dynamic Network Analysis and Visualization, In Reda Alhadj and Jon Rokne (Eds.) *Encyclopedia of Social Network Analysis and Mining*, Springer.
- L. Jiang, Kathleen M. Carley, Michael Bigrigg, A. Eberlein, and M. Galster, 2012, The Impact of Component Interconnections on Software Quality: A Network Analysis Approach. In Proceedings of 2012 IEEE International Conference on Systems, Man, and Cybernetics, SMC 2012; Seoul; South Korea, 1865-1872. DOI: [10.1109/ICSMC.2012.6378010](https://doi.org/10.1109/ICSMC.2012.6378010).
- Kenneth Joseph, C.H. Tan, and Kathleen M. Carley, 2012. Beyond "Local", "Social" and "Category": Clustering foursquare Users Using Latent "Topics". LBSN 2012 Proceedings, Pittsburgh, PA, Sept. 8th.
- Kathleen M. Carley, 2011, "Dynamic network analysis and modeling for CANS," In A Guide to Analytic Techniques for Nuclear Strategy Analysis, Edited by Belinda Bragg and George Popp (Eds.), NSI, inc., pp. 191-202.
- Kathleen M. Carley, Michael Bigrigg, David Garlan, Michael Lanham, Yue Lu, Geoffrey Morgan and Bradley Schmerl, 2011, "Experimentation Testbeds: Using SORASCS to Run and Process HSCB Virtual Experiments," In proceedings of HSCB Focus 2011: Integrating Social Science Theory and Analytic Methods for Operational Use, Chantilly, VA, February 8-10, 2011.
- Kathleen M. Carley, Michael Bigrigg, Constantine Papageorgiou, Jeff Johnson, Frank Kunkel, Michael Lanham, Michael Martin, Geoffrey Morgan, Bradley Schmerl and Tracy van Holt, 2011, "Rapid Ethnographic Assessment: Data-To-Model," In proceedings of HSCB Focus 2011: Integrating Social Science Theory and Analytic Methods for Operational Use, Chantilly, VA, February 8-10, 2011.
- Kathleen M. Carley and Brian Hirshman, 2011, "Agent-Based Models," In Encyclopedia of Social Networks. Edited by George A. Barnett (Ed.), Thousand Oaks, CA: SAGE, Pp. 12-17, SAGE Reference Online. Available from: <http://www.sage-ereference.com/view/socialnetworks/n6.xml>.
- Kathleen M. Carley and Jesse St. Charles, 2011, "Network Simulations," Encyclopedia of Social Networks. Edited by George A. Barnett (Ed.), Thousand Oaks, CA: SAGE, Pp. 612-16, SAGE Reference Online. Available from: <http://www.sage-ereference.com/view/socialnetworks/n247.xml>
- Jana Diesner and Kathleen M. Carley, 2011, "Semantic Networks," In Encyclopedia of Social Networking, Edited by G. Barnett & J.G. Golson (Eds.), Sage Publications, pp. 766-769.
- Jana Diesner and Kathleen M. Carley, 2011, "Words and Networks," In Encyclopedia of Social Networking, Edited by G. Barnett & J.G. Golson (Eds.), Sage Publications, pp. 958-961.
- Jana Diesner, I. Mergel and Kathleen M. Carley, 2011, "Network Analysis Software," In Encyclopedia of Social Networking, Edited by G. Barnett & J.G. Golson (Eds.), Sage Publications, pp. 595-598.
- David Garlan, Bradley Schmerl, Vishal Dwivedi, Michael Bigrigg and Kathleen M. Carley, 2011, "Specifying Workflows in SORASCS to Automate and Share Common HSCB Processes," In proceedings of HSCB Focus 2011: Integrating Social Science Theory and Analytic Methods for Operational Use, Chantilly, VA, February 8-10, 2011.
- Peter M. Landwehr, Marc Spraragen, Balakrishnan Ranganathan, M. Zyda and Kathleen M. Carley, 2010, "Planning a Cosmopolis: Key Features of an MMOG for Social Science Research," In proceedings of CHI 2010 Workshop: Video Games As Research Instruments, Atlanta, Georgia, April 10-15, 2010. Online.

- Jana Diesner and Kathleen M. Carley, 2010, "Relational Methods for Analyzing and Preventing Crime (in German). In Handbuch Netzwerkforschung: Vs Verlag," Edited by C. Stegbauer & R. Häußling (Eds.), pp. 725-738.
- Jana Diesner and Kathleen M. Carley, 2010, Relation Extraction from Texts (in German). In Handbuch Netzwerkforschung: Vs Verlag, Edited by C. Stegbauer & R. Häußling (Eds.), pp. 507-521.
- Jana Diesner and Kathleen M. Carley, 2010. "Mapping Socio-Cultural Networks of Sudan From Open-Source, Large-Scale Text Data," In proceedings of the 29th Annual Conference of the Sudan Studies Association, West Lafayette, IN, May 28-30, 2010.
- Kathleen M. Carley, Michael K. Martin and John P. Hancock, 2009, "Dynamic Network Analysis Applied to Experiments from the Decision Architectures Research Environment," In Patricia McDermott and Laurel Allender (Eds.) Advanced Decision Architectures for the Warfighter: Foundation and Technology, Partners of the Army Research Laboratory Advanced Decision Architectures Collaborative Technology Alliance, Final Report for DAAD19-01-2-0009, Ch. 1, pp. 15-34. <http://bldr-webtest.alionscience.com/AdaCta/Chapters/FM%20Files/01Carley.pdf>
- Nadya Belov, Michael K. Martin, Jeff Patti, Jeff Reminga, Angela Pawlowski and Kathleen M. Carley, 2009, "Dynamic Networks: Rapid Assessment of Changing Scenarios," In Proceedings of the 2nd International Workshop on Social Computing, Behavior Modeling and Prediction: Phoenix, AZ, March 31-April 1, 2009. Reprinted in Liu, H. (Ed) Social Computing and Behavioral Modeling, pp. 1-9, Springer. DOI: [10.1007/978-1-4419-0056-2_6](https://doi.org/10.1007/978-1-4419-0056-2_6).
- Michael W. Bigrigg, Carley, Kathleen M., Manousakis, Kyriakos and McAuley, Anthony, 2009, "Routing Through an Integrated Social and Communication Network," In proceedings of the 2009 Military Communications Conference (MILCOM'09), Boston MA, October 18-21 2009.
- Jana Diesner and Kathleen M. Carley, 2009, "He Says, She Says, Pat Says, Tricia Says. How Much Reference Resolution Matters for Entity Extraction, Relation, Extraction and Social Network Analysis," In proceedings of the Computational Intelligence for security and Defense Applications (CISDA), Ottawa, Canada, July 8-10, 2009. DOI: [10.1109/CISDA.2009.5356530](https://doi.org/10.1109/CISDA.2009.5356530).
- Peter W. Foltz, R. Sparks, M. Rosenstein, K. M. Carley, M. K. Martin, W. Warwick, M. Matessa, N. LaVoie and U. Lauper, 2009. "Developing an Integrated Toolset for the Tactical Human Integration of Network Knowledge ATO," In proceedings of the 4th Annual West Point Network Science Workshop, West Point, NY, October 28-30, 2009.
- Terrill Frantz and Kathleen M. Carley, 2009. "Toward a Confidence Estimate for the Most-Central-Actor Finding," In proceedings of the Academy of Management Annual Conference, Chicago, IL, August 7-11, 2009. Awarded the Sage Publications/RM Division Best Student Paper Award.
- David Garlan, Kathleen M. Carley, Bradley Schmerl, Michael Bigrigg and Orieta Celiku, 2009. "Using Service-Oriented Architectures for Socio-Cultural Analysis," In proceedings of the 21st International Conference on Software Engineering and Knowledge Engineering (SEKE2009)*, Boston, MA, July 1-3, 2009
- Peter Landwehr, Jana Diesner and Kathleen M. Carley, 2009. "The Words of Warcraft: Relational Text Analysis of Quests in an MMORPG," In proceedings of the 2009 DiGRA Conference, Brunel University, England, September 1-4, 2009.
- Dan Maxwell and Kathleen M. Carley, 2009, "Principles for Effectively Representing Heterogeneous Populations in Multi-Agent Simulations," In Complex Systems in Knowledge Based Environments, Edited by A. Tolk (Ed.), Springer-Verlag, Ch. 8: 199-228. DOI: [10.1007/978-3-540-88075-2_8](https://doi.org/10.1007/978-3-540-88075-2_8).
- Patrick Wagstrom, James Herbsleb and Kathleen Carley, 2009, "Decaying Socio-Technical Congruence as a Method to Account for Architectural Changes." In proceedings of the Workshop on Socio-Technical Congruence at ICSE 2009, ACM/IEEE, Vancouver, BC. May 19, 2009.
- Josh Lospinoso, Ian McCulloh and Kathleen M. Carley, 2009, "Utility Seeking in Complex Social Systems: An Applied Longitudinal Network Study on Command and Control." In Proceedings of Artificial Intelligence and Social Behavior Modeling, Edinburgh, Scotland.
- Terrill L. Frantz and Kathleen M. Carley 2008, "Transforming Raw-Email Data into Social- Network Information," In proceedings of the 2008 LNCS 5075 Workshop Proceedings, pp. 413-420. DOI: [10.1007/978-3-540-69304-8_42](https://doi.org/10.1007/978-3-540-69304-8_42).
- Terrill L. Frantz and Kathleen M. Carley, 2008, "Agent-based Modeling Within a Dynamic Network" in Chaos and Complexity in Psychology: The Theory of Nonlinear Dynamical Systems, Edited by Stephen J. Guastello, Matthijs Koopmans and David Pincus (Eds.), New York: Cambridge University Press, Ch. 16: 475-505.

- Ian A. McCulloh, B. Ring, Terrill Frantz and Kathleen M. Carley, 2008, "Unobtrusive Social Network Data from Email," In proceedings of 26th Army Science Conference, Orlando, FL, December 1-4, 2008.
- Christopher C. Yang, Hsinchun Chen, Michael Chau, Kuiyu Chang, Sheau-Dong Lang, Patrick S. Chen, Raymond Hsieh, Daniel Zeng, Fei-Yue Wang, Kathleen Carley, Wenji Mao and Justin Zhan (Eds.), 2008, "Intelligence and Security Informatics Workshops, PAISI, PACCF and SOCO 2008," Springer, Lecture Notes in Computer Science, No. 5075. Pacific Asia Workshop on Intelligence and Security Informatics (PAISI 2008). Workshop on Social Computing (SOCO 2008); pre-conference workshop for IEEE ISI-2008), Grand Formosa Regent Hotel , Taipei, Taiwan, June 17, 2008.
- Ian McCulloh, Josh Lospinoso and Kathleen M. Carley, 2007, "Social Network Probability Mechanics," In proceedings of the World Scientific Engineering Academy and Society 12th International Conference on Applied Mathematics, Cairo, Egypt, December, 2007, pp. 319-323.
- Jana Diesner and Kathleen M. Carley, 2007, "Conditional Random Fields for Entity Extraction and Ontological Text Coding," Proceedings of North American Association for Computational Social and Organizational Science (NAACSOS) 2007 Conference, Atlanta, GA. Best Student Paper Award. DOI: [10.1007/s10588-008-9029-z](https://doi.org/10.1007/s10588-008-9029-z).
- Il-Chul Moon and Kathleen M. Carley, 2007, "Locating Optimal Destabilization Strategies," In proceedings of ICCRTS, Electronic Version, Newport, RI, Jun 19-21, 2007.
- Il-Chul Moon and Kathleen M. Carley, 2007, "Evolving Multi-Agent Network Structure with Organizational Learning," In proceedings of SpringSim'07, Norfolk, VA, Mar 25-29, 2007, pp. 127-134.
- Marcelo Cataldo, Patrick Wagstrom, James Herbsleb and Kathleen Carley, 2006 "A Fine-Grain Measure of Coordination: Implications for the Design of Collaboration and Awareness Tools," In proceedings of Human Computer Interaction Consortium (HCIC) Winter Workshop 2006, Fraser, CO, February 1-5, 2006. pp. 1-16.
- Il-Chul Moon and Kathleen M. Carley, 2006, "Simulation Analysis of the Robustness and the Effectiveness of Command and Control Structures," In proceedings of KIMST'06, Inchon, Korea.
- Maksim Tsvetovat and Kathleen M. Carley, 2006, "On Effectiveness of Wiretap Programs in Mapping Social Networks," In proceedings of SIAM Conference on Data Mining, Bethesda, Maryland, April 20-22, 2006.
- Alex Yahja and Kathleen M. Carley, 2006, "WIZER: Automated Model Improvement in Multi-Agent Social-Network Systems," In Coordination of Large-Scale Multiagent Systems, Part III: New Approaches for Large Scale Coordination, Edited by Paul Scerri, Regis Vincent and Roger Mailler (Eds.), Springer US, pp. 255-270. DOI: [10.1007/0-387-27972-5_12](https://doi.org/10.1007/0-387-27972-5_12).
- Roger J. Chapman, John M. Graham, Kathleen M. Carley, Andrew Rosoff and Ryan Paterson, 2005, "Providing Insight into Command Post Operations Through Sharable Contextualized Net-Centric Visualizations and Analysis," In proceedings of the 2005 Human Interaction with Complex Systems Symposium, Greenbelt, VA, Nov 17-18, 2005. <http://www.cws-i.com/papers/chapman-graham-carley-rosoff-paterson-hicss2005.pdf>
- Jana Diesner and Kathleen M. Carley, 2005, "Revealing Social Structure from Texts: Meta-Matrix Text Analysis as a novel method for Network Text Analysis," Causal Mapping for Information Systems and Technology Research: Approaches, Advances and Illustrations, Edited by V.K. Narayanan & D.J. Armstrong (Eds.), Harrisburg, PA: Idea Group Publishing, Ch. 4: 81-108.
- Bradley Malin, Edoardo M. Airoldi and Kathleen M. Carley, 2005, "A Network Analysis Model for Disambiguation of Names in Lists," In proceedings of the Workshop on Link Analysis, Counterterrorism and Security, SIAM International Conference on Data Mining 2005, Newport Beach, CA, April 21-23, 2005. DOI: [10.1007/s10588-005-3940-3](https://doi.org/10.1007/s10588-005-3940-3).
- Patrick Wagstrom, James Herbsleb and Kathleen Carley, 2005, "A Social Network Approach to Free/Open Source Software Simulation," In proceedings of the First International Conference on Open Source Software, Genova, Italy, July 11-15, 2005, Edited by Marco Scotto and Giancarlo Succi (Eds.), pp. 16-23.
- Alex Yahja and Kathleen M. Carley, 2005, "WIZER: An Automated Intelligent Tool for Model Improvement of Multi-Agent Social-Network Systems," In proceedings of the Eighteenth International Florida Artificial Intelligence Research Society Conference (FLAIRS 2005), Clearwater Beach, Florida, May 15-17, 2005, AAAI Press, pp. 44-50.
- Alex Yahja and Kathleen M. Carley, 2005, "WIZER: A Tool for Automating Model Improvement in Multi-Agent Social-Network Systems," In proceedings of Agent-Directed Simulation 2005 (ADS'05), part of the 2005 Spring Simulation Multiconference (SpringSim'05), the Society for Modeling and Simulation (SCS), San Diego, CA.

- Kathleen M. Carley, Jana Diesner, Jeffrey Reminga and Maksim Tsvetovat, 2004, "An Integrated Approach to the Collection and Analysis of Network Data," In Proceedings of the NAACSOS 2004 Conference, Pittsburgh, PA, June 27-29, 2004, electronic publication:
http://www.casos.cs.cmu.edu/events/conferences/2004/2004_proceedings/Carley_Diesner_Reminga.pdf
- Kathleen M. Carley, 2004, "Estimating Vulnerabilities in Large Covert Networks Using Multi-Level Data," In proceedings of the 2004 International Symposium on Command and Control Research and Technology, San Diego, CA, June 2004, Evidence Based Research, Presented during Track 1, Electronic Publication, Vienna, VA.
- Li-Chiou Chen, Boris Kaminsky, Tiffany Tummino, Kathleen M. Carley, Elizabeth Casman, Douglas Fridsma and Alex Yahja, 2004, "Aligning Simulation Models of Smallpox Outbreaks," In proceedings of the Second Symposium on Intelligence and Security Informatics, Tucson, AZ, June 10-11, 2004. Also in Springer-Verlag Lecture Notes in Computer Science as volume 3073, Ch. 1: 1-16. DOI: [10.1007/978-3-540-25952-7_1](https://doi.org/10.1007/978-3-540-25952-7_1).
- Jana Diesner and Kathleen M. Carley, 2004, "Using Network Text Analysis to Detect the Organizational Structure of Covert Networks," In Proceedings of the NAACSOS 2004 Conference, Pittsburgh, PA, June 27-29, 2004, Electronic publication:
http://www.casos.cs.cmu.edu/events/conferences/2004/2004_proceedings/Diesner_Carley.pdf
- Marcus Louie and Kathleen M. Carley, 2004, "VISualization of Threats and Attacks (VISTA): A Decision Support Tool for Urban Threat Environments," In Proceedings of the NAACSOS 2004 Conference, Pittsburgh, PA, June 27-29, 2004, Electronic publication:
http://www.casos.cs.cmu.edu/events/conferences/2004/2004_proceedings/Louie,Marcus,%20revised2.doc
- Robert Popp, K. Pattipati, P. Willett, D. Serfaty, W. Stacy, Kathleen M. Carley, J. Allanach, Tu Haiying and S. Singh, 2004, "Collaboration and modeling tools for counter-terrorism analysis," Computational Intelligence for Homeland Security and Personal Safety 2004, In proceedings of the 2004 IEEE International Conference, San Diego, CA, July 6-9, 2004.
- Maksim Tsvetovat and Kathleen M. Carley, 2004, "Beyond Metamatrix: Towards a Robust Semantics for Reasoning About Networks," In Proceedings of the NAACSOS 2004 Conference, Pittsburgh, PA, June 27-29, 2004, Electronic publication:
http://www.casos.cs.cmu.edu/events/conferences/2004/2004_proceedings/Tsvetovat,Max.pdf
- Alex Yahja and Kathleen M. Carley, 2004, "The Design of Automated Validation and Explanation for Large-Scale Social Agent Systems," In Proceedings of the NAACSOS 2004 Conference, Pittsburgh, PA, June 27-29, 2004, Electronic publication:
http://www.casos.cs.cmu.edu/events/conferences/2004/2004_proceedings/yahja_alex.doc
- Li-Chou Chen and Kathleen M. Carley, 2003, "The Impact of Network Topology on the Spread of Anti-Virus Countermeasures," NAACSOS Conference 2003, Day 2, Pittsburgh, PA, June 22-25, 2003, Electronic Publication: http://www.casos.cs.cmu.edu/publications/papers/chen_2003_impactnetwork.pdf.
- Frederick J. Diedrich, Kathleen M. Carley, Jean MacMillan, Keith Baker, MAJ Jerry L. Schlabach, LTC J, Victor Fink, 2003, "Visualization of threats and attacks (VISTA) in urban environments," Military Intelligence Professional Bulletin, 29.1:42-45.
- Ju-Sung Lee, Kathleen M. Carley and Judith A. Effken. 2003, "Validating a Computational Model of Decision-Making using Empirical Data," NAACSOS Conference 2003, Day 1, Pittsburgh, PA, June 22-25, 2003, Electronic Publication: http://www.casos.cs.cmu.edu/publications/protected/2000-2004/2003-2004/lee_2003_validatingcomputational.pdf
- Marcus A. Louie, Kathleen M. Carley, Laleh Haghshenass, John C. Kunz and Raymond E. Levitt, 2003, "Model Comparisons: Docking ORGAHEAD and SimVision," 2003 NAACSOS conference proceedings, Day 3, Pittsburgh, PA, June 22-25, 2003, Electronic Publication:
http://www.casos.cs.cmu.edu/publications/working_papers/louie_2003_model.pdf
- Pietro Panzarasa and Kathleen M. Carley, 2003, "Multi-Agent Negotiation: Logical Foundations and Computational Complexity," NAACSOS Conference 2003, Day 3, Pittsburgh, PA, June 22-25, 2003, Electronic Publication:
http://www.casos.cs.cmu.edu/publications/protected/2000-2004/2003-2004/panzarasa_2003_multiagentnegotiation.pdf
- Craig Schreiber and Kathleen M. Carley, 2003, "The Impact of Databases on Knowledge Transfer: Simulation Providing Theory," NAACSOS Conference 2003, Day 2, Pittsburgh, PA, June 22-25, 2003, Electronic Publication: http://www.casos.cs.cmu.edu/publications/papers/schreiber_2003_impactdatabases.pdf

- Alex Yahja and Kathleen M. Carley, 2003, "WIZER: What-If Analyzer for Automated Social Model Space Exploration and Validation," CASOS Conference 2003, Pittsburgh, PA, June 22-25, 2003, Electronic Publication: http://www.casos.cs.cmu.edu/publications/papers/Yahja_2003_wizerwhatif.pdf
- Kathleen M. Carley, 2002, "Simulating Society: The Tension Between Transparency and Veridicality," In proceedings of Agents 2002, Chicago IL.
- Kathleen M. Carley, 2001, "Computational Approaches to Sociological Theorizing," In Handbook of Sociological Theory, Edited by J. Turner (Ed.), New York, NY: Kluwer Academic/Plenum Publishers, Ch. 4: 69-84.
- Li-Chou Chen and Kathleen M. Carley, 2001, "A Computational Model of Computer Virus Propagation," CASOS Conference 2001, Day 1, Pittsburgh, PA, July 5-8, 2001, Electronic Publication, <http://www.casos.cs.cmu.edu/events/conferences/2001/booklette.pdf>
- Kathleen M. Carley, 1999, "On Generating Hypotheses Using Computer Simulations," In proceedings of the 1999 International Symposium on Command and Control Research and Technology, Newport, RI., June 1999, Evidence Based Research, Presented during Day 1, Track 1, Electronic Publication, Vienna, VA. (short version). DOI: [10.1002/\(SICI\)1520-6858\(1999\)2:2](https://doi.org/10.1002/(SICI)1520-6858(1999)2:2).
- Kathleen M. Carley, 1997, "Network Text Analysis: The Network Position of Concepts," In Text Analysis for the Social Sciences: Methods for Drawing Statistical Inferences from Texts and Transcripts, Edited by in C. Roberts (Ed.), Hillsdale, NJ: Lawrence Erlbaum Associates, Ch. 4: 79-100.
- Kathleen M. Carley and Carter Butts, 1997, "An Algorithmic Approach to the Comparison of Partially Labeled Graphs," In proceedings of the 1997 International Symposium on Command and Control Research and Technology, Washington, DC, June 1997, pp. 276-286.
- Michael Palmquist, Kathleen M. Carley and Thomas Dale, 1997, "Two applications of automated text analysis: Analyzing literary and non-literary texts," In Text Analysis for the Social Sciences: Methods for Drawing Statistical Inferences from Texts and Transcripts, Edited by in C. Roberts (Ed.), Hillsdale, NJ: Lawrence Erlbaum Associates, Ch. 10: 171-189.
- Kathleen M. Carley, 1993, "Content Analysis," The Encyclopedia of Language and Linguistics, Edited by in Asher R.E. et al. (Eds.), Edinburgh, UK: Pergamon Press. 2: 725-730.
- David Banks and Kathleen M. Carley, 1993, "An Analogue of the Linear Model for Graph-Valued Random Variables," In proceedings of the Social Statistics Section of the American Statistical Association 1992, Boston, Massachusetts, American Statistical Association, Alexandria, VA, pp. 174-179.

TECHNICAL REPORTS

- Kathleen M. Carley, 2017, Validating Computational Models. Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report CMU-ISR-17-105
- Neal Altman, Kathleen M. Carley and Jeffrey Reminga, 2017, ORA User's Guide 2017, Carnegie Mellon University, School of Computer Science, Institute for Software Research, Pittsburgh, Pennsylvania, Technical Report CMU-ISR-17-100.
- Eleanor T. Lewis, Kathleen M. Carley and Jana Diesner, 2016, Displaying responsiveness or asserting identity in organizational language: how concept networks capture rhetorical strategies, Carnegie Mellon University, School of Computer Science, Institute for Software Research, Pittsburgh, Pennsylvania, Technical Report CMU-ISR-16-111.
- Joel H. Levine and Kathleen M. Carley, 2016, SCM System, Carnegie Mellon University, School for Computer Science, Institute for Software Research, Pittsburgh, Pennsylvania, Technical Report CMU-ISR-16-108.
- Will Frankenstein, Kenneth Joseph, Kathleen M. Carley, 2016, "Social Media ACTION: SOLO Data Description," Carnegie Mellon University, School for Computer Science, Institute for Software Research, Pittsburgh, Pennsylvania, Technical Report CMU-ISR-16-103.
- Will Frankenstein, Binxuan Huang, Kathleen M. Carley, 2016, "NATO Trident Juncture on Twitter: Public Discussion," Carnegie-Mellon University, School for Computer Science, Institute for Software Research, Pittsburgh, Pennsylvania, Technical Report CMU-ISR-16-100.
- Kathleen M. Carley, Momin Malik, Mike Kowalchuk, Jürgen Pfeffer and Peter Landwehr, 2015, "Twitter Usage in Indonesia," Carnegie-Mellon University, School for Computer Science, Institute for Software Research, Pittsburgh, Pennsylvania, Technical Report CMU-ISR-15-109.

- Aman Ahuja, Wei Wei, Kathleen M. Carley, 2015, Topic Modeling in Large Scale Social Network Data, School of Computer Science, Institute for Software Research, Technical Report CMU-ISR-15-108, 2015.
- Kathleen M. Carley, Michael J. Lanham, Kenneth Joseph, Michael Kowalchuck, and Geoffrey P. Morgan, 2014, "Construct User's Guide", School of Computer Science, Institute for Software Research, Technical Report CMU-ISR-14-105R .
- Michael J. Lanham, Kenneth Joseph, Geoffrey P. Morgan, and Kathleen M. Carley, 2014, "Construct — Developing and Building CASOS' Simulation Development Environments", School of Computer Science, Institute for Software Research, Technical Report CMU-ISR-14-115.
- Ghita Mezzour, L. Richard Carley, Kathleen M. Carley, 2014, Global Mapping of Cyber Attacks, School of Computer Science, Institute for Software Research, Technical Report CMU-ISR-14-111.
- Kathleen M. Carley, Ju-Sung Lee, Geoffrey P. Morgan, 2014, Dynamic Network Analysis of the NAS and the Impact of NextGen, School of Computer Science, Institute for Software Research, Technical Report CMU-ISR-14-110.
- Ghita Mezzour, William Frankenstein, Kathleen M. Carley and L. Richard Carley, 2014, Systematic Assessment of Nation-States' Motivations and Capabilities to Produce Biological Weapons. School of Computer Science, Institute for Software Research, Technical Report CMU-ISR-14-103.
- Kathleen M. Carley, Dave Columbus and Peter Landwehr, 2013, "AutoMap User's Guide 2013," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISR-13-105.
- Kathleen M. Carley, Jeff Reminga, Jon Storricks, Jürgen Pfeffer and Dave Columbus, 2013, "ORA User's Guide 2013," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISR-13-108.
- Kathleen M. Carley, David T. Filonuk, Kenneth Joseph, Michal Kowalchuck, Michael J. Lanham and Geoffrey P. Morgan, 2012, "Construct User Guide," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISR-12-112.
- Kathleen M. Carley and Kenneth Joseph, 2012, "Simulating Diffusion with Conflicting Knowledge." Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISR-12-111.
- Abhinav Sangal, Kathleen M. Carley, Neal Altman and Michael K. Martin, 2012, "Creating, Using and Updating Thesauri Files for Automap and ORA," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISR-12-108.b Also available as DTIC a570055.
- Kathleen M. Carley and Dave Columbus, 2012, "Basic Lessons in ORA and AutoMap 2012," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISR-12-107.
- Kathleen M. Carley, Dave Columbus and Ariel Azoulay, 2012, "AutoMap User's Guide 2012," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISR-12-106.
- Kathleen M. Carley, Jürgen Pfeffer, Jeff Reminga, Jon Storricks and Dave Columbus, 2012, "ORA User's Guide 2012," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISR-12-105.
- Abhinav Sangal, Michael K. Martin and Kathleen M. Carley, Competitive Adaptation in Terrorist Networks: Differences Between the Al-Muhajiroun and the Irish Republican Army, Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISR-12-110.
- Kathleen M. Carley and Dave Columbus, 2011, "Basic Lessons in ORA and AutoMap 2011," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISR-11-109.
- Kathleen M. Carley, Dave Columbus, Mike Bigrigg and Frank Kunkel, 2011, "AutoMap User's Guide 2011," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISR-11-108.
- Kathleen M. Carley, David Filonuk, Michael Martin, Neal Altman and Michael Kowalchuk, 2011, "The Effects of Healthcare Provisions on the 4X Poverty Population in the United States," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISR-11-122.
- Kathleen M. Carley, Jeff Reminga, Jon Storricks and Dave Columbus, 2011, "ORA User's Guide 2011," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISR-11-107.

- Michael J. Lanham, Geoffrey P. Morgan and Kathleen M. Carley, 2011, "Social Network Modeling and Simulation of Integrated Resilient Command and Control (C2) in Contested Cyber Environments," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISR-11-120.
- Alexander H. Levis, Kathleen M. Carley and Gabor Karsai, 2011, "Resilient Architectures for Integrated Command and Control in a Contested Cyber Environment," Technical Report SAL/FR-11-02.
- Wei Wei, Jürgen Pfeffer, Jeffrey Reminga and Kathleen M. Carley, 2011, "Handling Weighted, Asymmetric, Self-Looped and Disconnected Networks in ORA," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISR-11-113.
- Ian McCulloh and Kathleen M. Carley, 2011, Detecting Change in Longitudinal Social Networks, DTIC ASA50790, Jan 2011, <http://www.dtic.mil/cgi-bin/GetTRDoc?Location=U2&doc=GetTRDoc.pdf&AD=ADA550790>
- Michael Martin, Geoffrey Morgan, Kenneth Joseph and Kathleen M. Carley, 2010, "Impact of Information Loss and Information Error on Network-enabled Decision-making," Carnegie Mellon University, School of Computer Science, Institute for Software Research Technical Report, CMU-ISR-10-127.
- Michael W. Bigrigg, Daniel Chieffallo and Kathleen M. Carley, 2010, "PileSort Module Usage," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISR-10-119.
- Kathleen M. Carley, Dave Columbus, Michael Bigrigg and Frank Kunkel, 2010 "AutoMap User's Guide 2010," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISR-10-121.
- Kathleen M. Carley, Alexander H. Levis, Il-Chul Moon, Geoffrey Morgan, Jesse St. Charles, Brian Hirshman, Michael Lanham, P. Papantoni-Kazakos, Lee W. Wagenhals, Abbas K. Zaidi, Claudio Cioffi-Revila, Rovert J. Elder, Tod S. Levitt, Peter Pachowicz, Ashraf AbuSharekh, Smriti K. Kansal, A. Erkin Olmez, Faissal Mansoor, M. Faraz Rafi, Pedro Romero and John Pham, 2010, "Computational Modeling of Cultural Dimensions in Adversary Organizations," The Volgenau School of Engineering Dept. of Electrical and Computer Engineering System Architectures Laboratory, George Mason University, Technical Report. Available from: <http://www.dtic.mil/cgi-bin/GetTRDoc?AD=ada539467.pdf&Location=U2&doc=GetTRDoc.pdf>, and http://casos.cs.cmu.edu/publications/papers/MURI_Final_part1.pdf, and http://casos.cs.cmu.edu/publications/papers/MURI_Final_part2.pdf
- Kathleen M. Carley, Jeffrey Reminga, Jon Storricks and Dave Columbus, 2010, "ORA User's Guide 2010," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISR-10-120.
- Ian McCulloh, Joshua Lospinoso and Kathleen M. Carley, 2010, "The Link Probability Model: A Network Simulation Alternative to the Exponential Random Graph Model". Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report CMU-ISR-10-130.
- Brian R. Hirshman, Geoffrey P. Morgan, Jesse R. St. Charles and Kathleen M. Carley, 2010, "Construct Demo Input Deck," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISR-10-118.
- Bradley Schmerl, Michael W. Bigrigg, David Garlan and Kathleen M. Carley, 2010, "Integrating Components into SORASCS," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISR-10-122.
- Bradley Schmerl, Michael W. Bigrigg, David Garlan and Kathleen M. Carley, 2010, "Using the SORASCS Prototype Web Portal," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISR-10-123.
- Neal Altman, Michael K. Martin, Dawn Robertson and Kathleen M. Carley, 2009 "SmartCard Prototype," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report CMU-ISR-09-122.
- Kathleen M. Carley, Mike Bigrigg, Jeff Reminga, John Storricks, Matt DeReno and Dave Columbus, 2009, "Basic Lessons in *ORA and Automap 2009," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report CMU-ISR-09-117.
- Kathleen M. Carley, Dave Columbus, Mike Bigrigg, Jana Diesner and Frank Kunkel, 2009, "AutoMap User's Guide 2009," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report CMU-ISR-09-114.

- Kathleen M. Carley, Jeff Reminga, Jon Storricks and Matt De Reno, 2009, "ORA User's Guide 2009," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report CMU-ISR-09-115.
- Terrill L. Frantz and Kathleen M. Carley, 2009, "CEMAP: General Usage Guide," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report CMU-ISR-09-116.
- Terrill L. Frantz and Kathleen M. Carley, 2009, "Harvesting Ego-Network Data from Facebook Using the CEMAP Facebook Profile in ORA," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report CMU-ISR-09-102.
- Brian R. Hirshman and Kathleen M. Carley, 2009, "Variables, Decisions and Scripting in Construct," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report CMU-ISR-09-126.
- Ju-Sung Lee and Kathleen M. Carley, 2009, "Predicting Intentional Tax Error (Non-Compliance) Using Open Source Literature and Data," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report CMU-ISR-09-125.
- Ian McCulloh and Kathleen M. Carley, March 2009. "Longitudinal Dynamic Network Analysis: Using the Overtime Viewer Feature in ORA," Carnegie Mellon University, School of Computer Science, Institute for Software Research Technical Report: CMU-ISR-09-118.
- Ian McCulloh, MAJ Benjamin Ring, LTC John Graham, Terrill Frantz, Kathleen M. Carley and Joseph Psotka, 2009 "Social Network Analysis of E-mail in the Eisenhower Leadership Development Program, Year 2," United States Army Research Institute for the Behavioral and Social Sciences, U.S. Military Academy, Technical Report.
- Jessica McGillen, Michael K. Martin, Dawn Robertson, Neal Altman and Kathleen M. Carley, 2009, "300 Cities Virtual Experiment," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report CMU-ISR-09-123.
- Jamie Olson and Kathleen M. Carley, 2009, "Visualizing Spatial Dependencies in Network Topology," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report CMU-ISR-09-127. Reprinted as DTIC ADA525370, July 12, 2010.
- Ian McCulloh and Kathleen M. Carley, 2009, Longitudinal Dynamic Network Analysis. Using the Over Time Viewer Feature in ORA, DTIC ADA528413.
- Ian McCulloh, Benjamin Ring, Terrill Frantz, and Kathleen M. Carley, 2008, Unobtrusive Social Network Data From Email, DTIC ADA505804, Dec 2008, <http://www.dtic.mil/cgi-bin/GetTRDoc?Location=U2&doc=GetTRDoc.pdf&AD=ADA505804>
- Ian McCulloh and Kathleen M. Carley, 2008, Dynamic Network Change Detection, DTIC ADA505939, Dec 2008, <http://www.dtic.mil/cgi-bin/GetTRDoc?Location=U2&doc=GetTRDoc.pdf&AD=ADA505939>
- Ian McCulloh and Kathleen M. Carley, 2008, Detecting Change in Human Social Behavior Simulation, DTIC ADA488527, 19 Aug 2008, <http://www.dtic.mil/cgi-bin/GetTRDoc?Location=U2&doc=GetTRDoc.pdf&AD=ADA488527>
- Kathleen M. Carley, Neal Altman and Michael K. Martin, 2008, "Using Multi-Agent Simulation to Explore Unintended Consequences," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report CMU-ISR-08-137.
- Kathleen M. Carley, Dave Columbus, Matthew J. DeReno and Jana Diesner, 2008, "Automap User's Guide 2008," Carnegie Mellon University, Institute for Software Research, Technical Report CMU-ISR-08-123.
- Kathleen M. Carley, Dave Columbus, Matt DeReno, Jeff Reminga and Il-Chul Moon, 2008, "ORA User's Guide 2008," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISR-08-125.
- Kathleen M. Carley and Eunice J. Kim, 2008, "Random Graph Standard Network Metrics Distributions in ORA," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISR-08-103.
- Marcelo Cataldo, James D. Herbsleb, Kathleen M. Carley, 2008, "Socio-Technical Congruence: A Framework for Assessing the Impact of Technical and Work Dependencies on Software Development," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISR-08-104.

- George B. Davis, Jamie Olson and Kathleen M. Carley, 2008, "OraGIS and Loom: Spatial and temporal extensions to the ORA Analysis Platform," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISR-08-121. Reprinted as DTIC ADA486288, June 2008
- Jana Diesner and Kathleen M. Carley, 2008, "Looking under the Hood of Stochastic Machine Learning Algorithms for Parts of Speech Tagging," Carnegie Mellon University, Institute for Software Research, Technical Report CMU-ISR-08-131R.
- Terrill Frantz and Kathleen M. Carley, 2008, "CEMAP II: An Architecture and Specifications to Facilitate the Importing of Real-World Data into the CASOS Software Suite," Carnegie Mellon University, Institute for Software Research, Technical Report CMU-ISR-08-130.
- Brian R. Hirshman, Michael K. Martin and Kathleen M. Carley, 2008, "Modeling Information Access in Construct," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISR-08-115.
- Brian R. Hirshman, Michael K. Martin, Alaiksandr Birukou, Michael Bigrigg and Kathleen M. Carley, 2008, "The Impact of Educational Interventions on Real and Stylized Cities," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISR-08-114.
- Brian R. Hirshman, Michael K. Martin, Michael Bigrigg and Kathleen M. Carley, 2008, "The Impact of Educational Interventions by Socio-Demographic Attribute," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISR-08-118.
- Michael K. Martin, Kathleen M. Carley and Neal Altman, 2008, "300 Cities – An Exploration in Characterizing US Cities," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISR-08-122.
- Ian A. McCulloh and Kathleen M. Carley, 2008, "Social Network Change and Detection," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISR-08-116.
- Ian A. McCulloh and Kathleen M. Carley, 2008, "Detecting Change in Human Social Behavior Simulation," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report CMU-ISR-08-135.
- Ian A. McCulloh, MAJ, Kathleen M. Carley, CDT Joshua Lospinoso, 2008. "Average Detection Length of Network Change in a Simulated Army Infantry Company," United States Army Research Institute for the Behavioral and Social Sciences Technical Report.
- Ian A. McCulloh, MAJ, Benjamin Ring, LTC John Graham, Terrill Frantz, Kathleen M. Carley, Joseph Psotka, 2008, "IkeNet 2: Social Network Analysis of e-mail in the Eisenhower Leadership Development Program, Year 2," United States Army Research Institute for the Behavioral and Social Sciences, U.S. Military Academy, West Point, NY, USA Technical report (Under Review).
- Ian A. McCulloh, MAJ, M. Webb, J. Graham, Kathleen M. Carley and D. B. Horn, 2008, "Change Detection in Social Networks," U.S. Army Research Institute for the Behavioral and Social Sciences, Technical Report No. 1235. Arlington, VA.
- Ian A. McCulloh and Kathleen M. Carley, 2008, Social Network Change Detection, DTIC ADA488427, 17 Mar 2008, <http://www.dtic.mil/cgi-bin/GetTRDoc?Location=U2&doc=GetTRDoc.pdf&AD=ADA488427>
- Ian A. McCulloh, Kathleen M. Carley, and Matthew Web, 2007, Social Network Monitoring of Al-Qaeda, DTIC ADA490103, 2007, <http://www.dtic.mil/cgi-bin/GetTRDoc?Location=U2&doc=GetTRDoc.pdf&AD=ADA490103>
- Kathleen M. Carley, Dave Columbus, Matthew DeReno, Jeff Reminga and Il-Chul Moon, 2007, "ORA User's Guide 2007," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISRI-07-115.
- Kathleen M. Carley, Dave Columbus, Matthew DeReno, Jana Diesner and Nicole Sebula, 2007, "AutoMap User's Guide 2007," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISRI-07-114.
- George B. Davis and Kathleen M. Carley, 2007, "Simultaneous Inference of Places, Activities and Behavioral Classes in Maritime GPS Traces," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISRI-07-113.

- George B. Davis and Kathleen M. Carley, 2007, "Computational Analysis of Merchant Marine Global Positioning Data," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISRI-07-109.
- Brian R. Hirshman, Kathleen M. Carley and Michael J. Kowalchuck, 2007, "Loading Networks in Construct," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISRI-07-116.
- Brian R. Hirshman, Kathleen M. Carley and Michael J. Kowalchuck, 2007, "Specifying Agents in Construct," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISRI-07-107.
- Marcus A. Louie and Kathleen M. Carley, 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.
- Kathleen M. Carley and Matthew De Reno, 2006, "ORA: Organization Risk Analyzer, ORA User's Guide," Carnegie Mellon University, School of Computer Science, Institute for Software Research, Technical Report, CMU-ISRI-06-113.
- Kathleen M. Carley, Il-Chul Moon, Mike Schneider and Oleg Shigiltchoff, 2005, "Detailed Analysis of Factors Affecting Team Success and Failure in the America's Army Game," Carnegie Mellon University, School of Computer Science, Institute for Software Research International, Technical Report CMU-ISRI-05-120.
- Terrill Frantz and Kathleen M. Carley, 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.
- Terrill Frantz and Kathleen M. Carley, 2005, "A Formal Characterization of Cellular Networks," Carnegie Mellon University, School of Computer Science, Institute for Software Research International, Technical Report CMU-ISRI-05-109.
- Terrill Frantz, Kathleen M. Carley and Jana Diesner, 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.
- Terrill Frantz and Kathleen M. Carley, 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.
- Il-Chul Moon, Kathleen M. Carley, Mike Schneider and Oleg Shigiltchoff, 2005, "Detailed Analysis of Team Movement and Communication in the America's Army Game," Carnegie Mellon University, School of Computer Science, Institute for Software Research International, Technical Report CMU-ISRI-05-129.
- Mike Schneider, Kathleen M. Carley and Il-Chul Moon, 2005, "Detailed Comparison of America's Army Game and Unit of Action Experiments," Carnegie Mellon University, School of Computer Science, Institute for Software Research International, Technical Report CMU-ISRI-05-139.
- Craig Schreiber and Kathleen M. Carley, 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.
- Maksim Tsvetovat and Kathleen M. Carley, 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-130.
- Kathleen M. Carley, Neal Altman, Boris Kaminsky, Démian Nave and Alex Yahja, 2004. "BioWar: A City-Scale Multi-Agent Network Model of Weaponized Biological Attacks," Carnegie Mellon University, School of Computer Science, Institute for Software Research International, Technical Report CMU-ISRI-04-101.
- Kathleen M. Carley and Jeff Reminga, 2004. "ORA: Organization Risk Analyzer." Carnegie Mellon University, School of Computer Science, Institute for Software Research International, Technical Report CMU-ISRI-04-101.
- Jana Diesner and Kathleen, M. Carley, 2004. "AutoMap1.2 - Extract, analyze, represent and compare mental models from texts," Carnegie Mellon University, School of Computer Science, Institute for Software Research International, Technical Report CMU-ISRI-04-100.

- Natasha Kamneva and Kathleen M. Carley, 2004. "A Network Optimization Approach for Improving Organizational Design," Carnegie Mellon University, School of Computer Science, Institute for Software Research International, Technical Report CMU-ISRI-04-102.
- Michael Kowalchuck, Singh Siddhartha and Kathleen M. Carley, 2004. "CORES - Complex Organizational Reasoning System," CASOS Technical Report. Carnegie Mellon University, School of Computer Science, Institute for Software Research International, CMU-ISRI-04-131.
- Ju-Sung Lee and Kathleen M. Carley, 2004. "OrgAhead: A Computational Model of Organizational Learning and Decision Making [Version 2.1.5]," Carnegie Mellon University, School of Computer Science, Institute for Software Research International, Technical Report CMU-ISRI-04-117.
- Craig Schreiber and Kathleen M. Carley, 2004. "Human and Organizational Risk Modeling." Carnegie Mellon University, School of Computer Science, Institute for Software Research International, Technical Report CMU-ISRI-04-122.
- Craig Schreiber and Kathleen M. Carley, 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.
- Maksim Tsvetovat., Jana Diesner and Kathleen M. Carley, 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.
- Maksim Tsvetovat, Jeff Reminga and Kathleen M. Carley, 2004. "DyNetML: Interchange Format for Rich Social Network Data," CASOS Technical Report. Carnegie Mellon University, School of Computer Science, Institute for Software Research International, CMU-ISRI-04-105.
- Kathleen M. Carley, 1991, Coordination for Effective Performance During Crises when Training Matters, DTIC, AD-A240-431

DEFENSE TECHNICAL INFORMATION CENTER (DTIC) PUBLICATIONS

- Ian A. McCulloh and Kathleen M. Carley. 2011. "Detecting change in longitudinal social networks." United States Military Academy, Network Science Center (NSC), West Point, NY. ADA550790.
- Ian A. McCulloh and Kathleen Carley. 2009. "Longitudinal Dynamic Network Analysis." Using the Over Time Viewer Feature in ORA. Technical Report No. CMU-ISR-09-118. Carnegie Mellon University, School of Computer Science, Institute for Software Research, Pittsburgh, PA. ADA528413.
- Ian A. McCulloh and Kathleen M. Carley. 2008. "Social network change detection." No. CMU-ISR-08-116. Carnegie Mellon University, School of Computer Science, Institute for Software Research, Pittsburgh, PA. ADA488427.
- Ian A. McCulloh, Matthew Webb, John Graham, Kathleen Carley, and Daniel B. Horn. 2008. "Change detection in social networks." United States Military Academy, Department of Mathematical Sciences, West Point, NY. Technical Report 1235.
- Ian A. McCulloh and Kathleen M. Carley. 2008. "Dynamic Network Change Detection." United States Military Academy, West Point, NY. ADA505939.
- Ian A. McCulloh, Kathleen Carley, and Matthew Webb. 2007. "Social network monitoring of Al-Qaeda." United States Military Academy, Department of Mathematical Sciences, West Point, NY. ADA490103.
- Shawn A. Weil, Kathleen M. Carley, Jana Diesner, Jared Freeman, and Nancy J. Cooke. 2006. "Measuring situational awareness through analysis of communications: A preliminary exercise." APTIMA INC, Woburn, MA. ADA463341.
- John M. Levine, Richard L. Moreland, Linda Argote, and Kathleen M. Carley. Personnel turnover and team performance. Pittsburgh University, Pittsburgh PA, ADA433897
- Webb Stacy, William Salter, Daniel Serfaty, Jean MacMillan, Kari Chopra, Georgiy Levchuk, Tim Burt et al. 2005. "NEMESIS: Network Modeling Environment for Structural Intervention Strategies." APTIMA INC, Woburn, MA. No. AP-R-1280. ADA431203.
- Craig Schreiber, S. Singh, S. and Kathleen M. Carley, 2004. Construct-a multi-agent network model for the co-evolution of agents and socio-cultural environments (Technical Report No. CMU-ISRI-04-109). Pittsburgh, PA: Carnegie Mellon University, School Computer Science, Institute for Software Research International.

K.M. Carley December 12, 2017

Robert Berhman and Kathleen M. Carley. 2003. "Modeling the structure and effectiveness of intelligence organizations: Dynamic information flow simulation." Carnegie Mellon University, Pittsburgh, PA. ADA467468.

Kathleen M. Carley and David Krackhardt. 1999. "A typology for C2 measures." Carnegie Mellon University, Pittsburgh, PA. ADA458997.

OTHER PUBLICATIONS

Sumeet Kumar and Kathleen M. Carley, 2016, "DDoS Cyber-Attacks Network: Who's Attacking Whom," Paper for Poster Presentation at Intelligence and Security Informatics (ISI), 2016 IEEE International Conference, Tuscan, AZ, September 28-30, 2016.

Tanmay Sinha, Wei Wei, and Kathleen M. Carley, 2015, Modeling Similarity in Incentivized Interaction: A Longitudinal Case Study of StackOverflow, Paper for Poster Presentation at Networks in the Social and Information Sciences, NIPS 2015, Montreal Quebec, Canada.

Elizabeth McGhee-Hassrick, Kathleen M. Carley, Kenneth Joseph, and Bennett Leventhal, 2014, Can Reconfigured Schools Improve Disparities in Autism Treatments? Conference on Complex Systems, Health Disparities & Population Health: Building Bridges, Feb. 24-25, 2014 in the Natcher Conference Center at the NIH Campus in Bethesda, MD.

F. Can, Kathleen M. Carley, I. Kind, and P.S. You, 2012, Message from the IEEE/ACM ASONAM 2012 general chairs, Proceedings of the 2012 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining, ASONAM 2012.

Michael J. Lanham, Geoffrey P. Morgan and Kathleen M. Carley, 2011, "Simulating Integrated Resilient Command and Control (C2) in Contested Cyber Environments (System Architectures Laboratory, Trans.)," in Alexander Levis, Kathleen M. Carley and Gabor Karsai (Eds.), Resilient Architectures for Integrated Command and Control in a Contested Cyber Environment (pp. 95-106). Fairfax, VA: The Volgenau School of Engineering Dept. of Electrical and Computer Engineering System Architectures Laboratory, George Mason University.

Michael J. Lanham, Geoffrey P. Morgan and Kathleen M. Carley, 2011 "Social Network Modeling and Simulation of Integrated Resilient Command and Control (C2) in Contested Cyber Environments (System Architectures Laboratory, Trans.)," in Alexander Levis, Kathleen M. Carley and Gabor Karsai (Eds.), Resilient Architectures for Integrated Command and Control in a Contested Cyber Environment (pp. 63-94). Fairfax, VA: The Volgenau School of Engineering Dept. of Electrical and Computer Engineering System Architectures Laboratory, George Mason University.

Kathleen M. Carley, Neal Altman, Michael Martin, Mike Kowalchuck, Joanne Meikle and Traci Suiter, 2010, "Compliance, Assistance and the SmartCard," Refereed poster presented at the 2010 IRS Research Conference, Washington, DC. <http://www.irs.treas.gov/pub/irs-soi/10rpresconsmart.pdf>.

G. Andighetto, G. Boella, J. Sichman, H. Verhagen, Kathleen M. Carley, C. Castelfranchi, R. Conte, G.A.G. Lugo, C. Sierra, P. Tema, L. van der Torre, S. Villata, 2009, Social networks and multi-agent systems symposium (SNAMAS-09) (editorial), In Proceedings of the 23rd Convention of the Society for the Study of Artificial Intelligence and Simulation of Behaviour, AISB 2009; Edinburgh; United Kingdom, p. 1.

Jamie F Olson and Kathleen M Carley, 2008, Summarization and Information Loss in Network Analysis. In Workshop on Link Analysis, Counter-terrorism, and Security held in conjunction with the SIAM International Conference on Data Mining (SDM), April 2008.

Daniel Zeng, Fei-Yue Wang and Kathleen M. Carley, 2007, "Guest Editors' Introduction: Social Computing," IEEE Intelligent Systems, September/October 2007, 22.5: 20-22. DOI: [10.1109/MIS.2007.88](https://doi.org/10.1109/MIS.2007.88).

David Skillicorn and Kathleen M. Carley, 2005, Letter from the Editors – Special Issue on DataMining Large Scale Temporal Data-Bases, Computational and Mathematical Organization Theory, 11(2):95.

Anderson P. Meyer, Kathleen Eisenhardt, Kathleen M. Carley and Andrew Pettigrew, 1999, "Introduction to the special issue: Applications of complexity theory to organization science," Organization Science, 10.3: 233-236, DOI: [10.1287/orsc.10.3.233](https://doi.org/10.1287/orsc.10.3.233).

Michael J. Prietula, Kathleen M. Carley and Les Gasser, 1998, "A Computational Approach to Organizations and Organizing," Simulating Organizations: Computational Models of Institutions and Groups, Edited by Michael J. Prietula, Kathleen M. Carley and Les Gasser (Eds.), Menlo Park, CA: AAAI Press / The MIT Press, Pp. xiii-xix.

K.M. Carley December 12, 2017

- Kathleen M. Carley, 1997, "Introduction: Computational Organization Theory," *Journal of Mathematical Sociology*, 22.2: 91-93. (Editor's comment).
- Kathleen M. Carley and William A. Wallace, 1995, Editorial, *Computational and Mathematical Organization Theory*, 1.1:5-7.
- Kathleen M. Carley and Zhiang Lin, 1994, "Organizational Shifts and Performance," *Sociological Abstracts*.
- Constantine P. Papageorgiou and Kathleen M. Carley, 1993, "A cognitive model of decision making: chunking and the radar detection task," Carnegie Mellon University. School of Computer Science, CMU-CS-93-228 Research paper.
- Kathleen M. Carley, Les Gasser, Daniel O'Leary and Michael J. Prietula, 1993, Editorial, "Computational and Mathematical Models of Organizations," *International Journal of Intelligent Systems in Accounting, Finance and Management*, 2.4: 211-213.
- Kathleen M. Carley and David S. Kaufer, 1993, "Changing the Face of Science: The Impact of Print," *Sociological Abstracts*.
- Kathleen M. Carley, 1993, "Extracting Culture Through Textual Analysis," *Abstract Only, Sociological Abstracts*, 22.4: 291-312, DOI: [10.1016/0304-422X\(94\)90011-6](https://doi.org/10.1016/0304-422X(94)90011-6).
- Kathleen M. Carley and John Harrald, 1992, "Organizing for Response: Comparing Practice Plan and Theory," *Natural Hazards Observer*, 17.2: 1-3.
- Zhiang Lin and Kathleen M. Carley, 1992, "Maydays and Murphies: A Study of the Effect of Organizational Design, Task and Stress on Organizational Performance," *Sociological Abstracts*.
- Kathleen M. Carley and Norm Hummon, 1992, "Why New Fields Emerge (or Fail to Do So): A Preliminary Examination," *Sociological Abstracts*.
- Kathleen M. Carley, 1991, "Structural Constraints on Communication: The Diffusion of the Homomorphic Signal Analysis Technique through Scientific Fields," *Abstract Only, Sociological Abstracts*, 15.3-4: 207-246, DOI: [10.1080/0022250X.1990.9990070](https://doi.org/10.1080/0022250X.1990.9990070).
- Kathleen M. Carley, 1991, "The Value of Cognitive Foundations for Dynamic Social Theory," *Abstract Only, Sociological Abstracts*, 14: 171-208.
- Kathleen M. Carley, 1991, "On the Persistence of Beliefs," *Sociological Abstracts*.
- Kathleen M. Carley, 1989, "Group Interaction, Stability and Reconstruction," *Sociological Abstracts*.
- Kathleen M. Carley, 1988, "Cognitive and Social Stability," *Sociological Abstracts*.
- Kathleen M. Carley and Kira Wendt, 1988, "The Impact of Electronic Mail on the Diffusion of Scientific Information," *Sociological Abstracts*.
- Kathleen M. Carley, 1988, "Artificial Intelligence and Emotions," *Newsletter for Sociology and Emotions*.
- Kathleen M. Carley, 1987, "Increasing Consensus through Shared Social Position and Interaction," *Sociological Abstracts*.
- Kathleen M. Carley, 1987, "Language: Society's Chronicle," *Sociological Abstracts*.

BOOK REVIEWS

- Kathleen M. Carley, 1989. Review of Saris and Gallhofer "Sociometric Research VI: Data Collection and Scaling," *Journal of Classification Research*, 6:2: 301-304.

SELECTED WORKING PAPERS

- Terrill L. Frantz, Ian McCulloh and Kathleen M. Carley, 2008, "Estimating the Reliability of Top-Actor Identification," *Network Science Report Journal*, 2, The Network Science Center, United States Military Academy.
- Maksim Tsvetovat, Kathleen M. Carley and Katia Sycara, "A Multi-Agent Model of Emergence of Market Segmentation" in *Modeling Autonomous Agents in a Multi-Agent World IV Lecture Notes on Artificial Intelligence 2004*, Edited by Yves Demazeau, Francisco Garijo (Eds.), Springer-Verlag.
- Carter Butts and Kathleen M. Carley, 2001, "Spatial Models of Large Scale Interpersonal Networks," *CASOS Working Paper*, Carnegie Mellon University.
- Carter Butts and Kathleen M. Carley, 2000, "Canonical Labeling to Facilitate Graph Comparison."

K.M. Carley December 12, 2017

Kathleen M. Carley, "Adaptive Organizations and Emergent Forms," CASOS Working Paper, Carnegie Mellon University.

Doug Wholey, Sara Kiesler and Kathleen M. Carley, "Learning Teamwork: Emergence of Communication and Structure in Novice Software Development Teams," Social and Decisions Sciences, Carnegie Mellon University.

Kathleen M. Carley and David Krackhardt, "A Structural Perspective on Organizational Cognitions: Attributions of Power, Performance and Attitudes," Working Paper, H.J. Heinz III School of Public Policy and Management, Carnegie Mellon University.

INVITED KEYNOTES AND PLENARY TALKS

- 12/2017 "Geo-Spatial Social Network Analysis of Social Media to Mitigate Disasters," AGU, New Orleans, LA
- 10/2017 "Influence Operations, Bots and ORA," TIDESPRINT – NATO, Virginia Beach, VA
- 9/2017 "Diffusion in the Social-Cyber Landscape: Using simulation to explore the link between off-line and on-line activity," Social Simulation Conference 2017, September 25-29, 2017, Dublin Ireland
- 8/2017 "Social Influence Bots and Disinformation," JCOIE Workshop, Disinformation, Propaganda, & Computational Propaganda Panel, Washington D.C.
- 7/2017 "Social Influence on the Web: Bots and Fake News," IC2S2, Cologne, Germany
- 4/2017 "Networks and Social Change," Rand Workshop – DARPA Santa-Monica, CA
- 3/2017 "Wisdom or Ignorance: The thoughtful use of networks," 8th Annual ANN SONIC workshop on Network Theory, March 23-25, 2017 at USC, in Los Angeles
- 12/2016 "Knowledge Dynamics," Networks as Indicators of Science and Engineering Activity (NCES) NSF Workshop, George Washington University, Washington, DC
- 10/2016 "NATO: Lessons Learned on Network Analysis of Social Media," TIDESPRINT – NATO, Virginia Beach, VA
- 10/2016 "Dynamic Networks in a Cyber-Mediated World." Keynote PRO-VE 2016 – Collaboration in a Hyperconnected World, Porto, Portugal
- 9/2016 "Tracking Change in the Cyber-Mediated World." Symposium on Frontiers on Big Data, University of Illinois at Urbana-Champaign, Urbana-Champaign, IL
- 7/2016 "Tracking Dynamic Networks: Data Challenges for Real World Applications," Keynote IRI, Pittsburgh, PA
- 4/2016 "Dynamic Network Analysis of Social Media Data," New Trends in Social Media, NATO Strategic Communications Centre of Excellence STRATCOM, Riga Latvia
- 4/2016 "Social Media Network Analytics," NATO ACT-Sprint, Krakow, Poland
- 3/2016 "Dark Networks and Dynamic Network Analytics," Dark Web Conference, Naval Post Graduate School, Monterey, CA
- 10/2015 "Predicting the Group: Data Science for Human Socio-Cultural Understanding and Prediction," University of Michigan Data Science Symposium, Ann Arbor, MI
- 6/2015 "Twitter, Terror and Terms: Network analytics for assessing large scale media data," Keynote PolNet, Portland, OR
- 5/2015 "Social Cognition: Intelligence within and about networks," California Cognitive Science Conference, Berkeley, CA
- 3/2015 "Social Media Analytics Using Dynamic Network Methodologies," Keynote, DHS CCICADA, Pittsburgh, PA
- 7/2014 "Networks, Language, Organizations," Academy of Management, Philadelphia, PA
- 7/2014 "Social Media, Security and Personal Information," Keynote Networking Information Technology Research and Development (NITRD), Washington DC
- 3/2014 "Analyzing and Simulating Dynamic Networks," Rand Conference, Arlington, VA
- 3/2014 "Dynamic Network Analytics for Cyber Warfare," CENTCOM Technical Exchange, Tampa, FL
- 11/2013 "Network Analysis and Visualization," Approaches to Dynamic Network and Scientometric Analysis within the IC, Washington DC
- 9/2013 "Open Source Exploitation for Understanding Covert Networks," Dark Networks, Westpoint, NY
- 8/2013 "Networks and Agents: The Value of a Multi-Level Approach to Agent-Based Dynamic- Network Modeling." Statistical and Applied Mathematical Sciences Institute (SAMSI), Raleigh-Durham, NC
- 5/2013 "Crisis Mapping: Big Data from a Dynamic Network Analytic Perspective," World Summit on

- Big Data and Organization Design, Paris, Fr.
- 3/2013 "Dynamic Network Approach to Health Surveillance," PACOM S&T 2013, Honolulu, HI
- 10/2012 "Geo-Temporal Dynamic Network Analysis: Lessons Learned from Arab Spring," GEOINT 2012: Creating the Innovation Advantage, Orlando, FL
- 9/2012 "Geo-Spatial Network Analysis: Applications and Challenges," UBICOM, Keynote, Pittsburgh, PA
- 6/2012 "Political Evolution and Revolution: A Network Assessment of Sudan and Arab Spring Power Transformations," Keynote, St. Petersburg, Russia
- 4/2012 "Secondary Actors and Communicative Reach," Graph Exploitation, Keynote, Boston, MA
- 4/2012 "Dynamic Network Analysis," SBP12 International Conference, College Park, MD
- 3/2012 "Dynamic Network Analysis of the Arab Spring," IMA, University of Minnesota, Minneapolis, MN
- 5/2011 "Crisis Response – Rapid Ethnographic Assessment," Stanford Social Conference on Humanitarian Assistance and Disaster Response, Colorado Springs, CO.
- 3/2011 "Dynamic Networks," BAH conference, McClean, VA.
- 3/2011 "Networks of Learners: Linking Network Science and Agent Based Modeling," Behavioral Representation in Modeling and Simulation (BRIMS) Conference, March 23, 2011, Sundance, UT.
- 2/2011 "Embedded Conversations: Trails of Constraints in Every Day Life," INSNA Keynote, February 2011, St. Petersburg, FL.
- 12/2010 "The Social Network Perspective," Spatio-Temporal Constraints on Social Networks / Specialist Meeting, Santa Barbara, CA.
- 9/2010 "Complexity: A Dynamic Network Perspective" Keynote, Forum on Complex Systems, UNC Charlotte, Charlotte, NC
- 12/2009 "Dynamic Network Analytical Reasoning", Queens College, London, England.
- 10/2009 "Geo-Temporal Network Analysis", Keynote, USMA Network Science Conference, West Point, NY.
- 10/2009 "Dynamic Network Analysis: From Social Network Analysis to Network Science to Cyber mediated Dynamic Network Science", USMA Network Science Conference, West Point, NY.
- 9/2009 "Dynamic Network Analysis for Naval Operations" *ONR Working Group on New Maritime Technology Workshop* 2009, Sep 24; Honolulu, HI
- 9/2009 "Small World Problem and the Navy" *ONR Working Group on New Maritime Technology Workshop* 2009, Sep 24; Honolulu, HI
- 7/2009 "Dynamic Network Analysis and Security" CISDA Computational Intelligence for Security and Defense Applications 2009, Ottawa, Ontario
- 6/2009 "Dynamic Network Analysis: New Capabilities and a Look into the Future." Human Behavior-Computational Intelligence Modeling Conference 2009, Oak Ridge, Tennessee
- 4/2009 "Dynamic Network Analysis", Keynote, Social Networks and Multiagent Systems Symposium, AISB, Edinburgh, Scotland.
- 10/2008 "Geo-Temporal Network Analysis," USMA Network Science Conference, West Point, NY
- 9/2008 "Networks Through Space and Time," Intra-Organizational Networks Conference (ION), Lexington, Kentucky
- 6/2008 "Organizational Modeling with Dynamic Network Analysis," IBM Services Research Strategy Meeting, Hawthorne, New York.
- 5/2008 "Modeling and Simulation, State of the Art," ONR Social, Cultural and Computational Science Workshop, Washington DC.
- 5/2008 "Dynamic Network Analysis to Support Counter-Narcotics Activities" 2008 National HIDTA Conference, Coronado, CA.
- 4/2008 "Advances and Challenges in Dynamic Network Analysis," Analyzing the Impact of Emerging Societies on National Security, MORS, Chicago, IL
- 4/2008 "Vibes," OneSaf, Orlando, FL.
- 3/2008 "Dynamic Network Analysis," Exploring Creative Approaches to Intelligence Problems, Washington DC.
- 3/2008 "Dynamic Network and Geo-Spatial Representation," International Workshop on Cultural Intelligence, London, UK.
- 3/2008 "Dynamic Network Analysis," National Guard Counter Drug Conference, Washington DC.

K.M. Carley December 12, 2017

- 1/2008 "Dynamic Network Analysis," California Campaign Against Marijuana Planning Conference, Lake Tahoe, CA.
- 10/2007 "Dynamic Network Analysis: Harnessing Complexity," International Conference on Complex Systems (ICCS-07), Boston, MA.
- 10/2007 "The promise and challenge of linking social and spatial networks," Frontiers in Transportation Social Interaction, University of Amsterdam, The Netherlands.
- 9/2007 "Dynamic Network Analysis with ORA: Key Challenges," DIMACS/DyDAn Workshop on Computational Methods for Dynamic Interaction Networks, Rutgers University, New Brunswick, NJ.
- 7/2007 "Network Dynamics: The Challenge of Enron and al Qaeda," UK Social Network Conference, University of London, London UK.
- 6/2007 "Dynamic Network Analysis Applications for HPC," DOD High Performance Computing Modernization Program's (HPCMP) User's Group Conference (UGC), Pittsburgh, PA.
- 4/2007 "Dynamic Network Analysis for Organizational Management," Navigating Complexity: Doing more with less, 2007 Almaden Institute, IBM Almaden Research Center, San Jose, CA.
- 3/2007 "Dynamic Network Approaches to Counter-Terrorism," Kilby Lecture at the GOMATech 07, Lake Buena Vista, FL.
- 2/2007 "Mapping Social Networks with Intelligent Agents," STEP Conference on Improvised Online Communications Networks, MITRE Corporation, McLean, VA.
- 10/2006 "A Dynamic Network Approach to the Assessment of Terrorist Groups and The Impact of Alternative Courses of Action," Visualising Network Information Workshop, Copenhagen, Denmark.
- 3/2006 "BioDefense through City Level Multi-Agent Modeling of Bio and Chemical Threats," Spring Biosurveillance Workshop, Tucson, AZ.
- 11/2005 "Dynamic Network Analysis Approach to Adversarial Modeling," AFOSR/Cultural Modeling Conference, San Antonio, TX.
- 6/2005 "Destabilizing Terrorist Network," Defeat Network Enemy Roundtable, Pentagon, Washington D.C.
- 2/2005 "Simulation Tool for BioDefense: BioWar," BioTech Conference, Evanston, IL.
- 11/2004 "An integrated approach to evaluating strategic interventions in terrorist networks," Global War of Terrorism Tool Conference, MORS, US Naval War College Newport, Rhode Island.
- 9/2004 "Dynamic Network Analysis for Homeland Defense: Destabilizing Terror Networks," DIMACS, Rutgers, The State University.
- 2/2004 "Capabilities and Limitations of Current Multi-Agent and Network Modeling," Aptima, Modeling Emerging Asymmetric Threats Workshop, Washington DC.
- 11/2003 "Modeling Covert Networks," UES Workshop, "Culture and Personality in Models of Adversarial Decision-Making," Washington, DC.
- 10/2003 "Network and multi-agent based approaches," Aptima, Modeling Emerging Asymmetric Threats Workshop, Washington, DC.
- 3/2003 "Destabilizing Covert Networks", Stonecipher Symposium 2003 on Homeland Security, Tennessee, <http://www.tntech.edu/stonecipher/>
- 10/2002 "Simulating Society: The Tension Between Transparency and Veridicality", Keynote, Agents 2002, Chicago, IL.
- 3/2002 "Computational Organization Science: The systemic analysis of social complexity", Plenary, Naval Post Graduate School, Monterey, CA
- 1/2002 "Destabilizing Networks" Society for Computer Simulation, VWSIM, San Antonio, TX
- 5/2002 "Dynamic Network Analysis" National Academy of Science Presentation
- 5/2001 "Organizational Adaptation in a Changing Environment" Keynote, Japanese Society for Artificial Intelligence (JSAI 2001). Matsue City, Shimane Japan
- 5/2001 "On the Evolution of Networks", Plenary, JSAI 2001 International Workshop on Agent-based Approaches in Economic and Social Complex Systems (AESCS 2001) Matsue City, Shimane Japan.
- 1/2001 "Implications of Complexity Research for Organizational Change" Keynote, NSF Design, Service and Manufacturing Grantees and Research Conference, Tampa, FL
- 11/2000 "Organizations as Intelligent Complex Adaptive Systems" Plenary, IBERAMIA 2000, Sao Paulo, Brazil

K.M. Carley December 12, 2017

- 10/2000 “Computational Social Science: Agents, Interaction and Dynamics”, Agents 2000, Keynote, University of Chicago, Chicago IL
- 5/2000 “Complexity and Society”, Plenary, NECSI, Nashua NH
- 7/1999 “Opening up the Black Box: Organizational Design as Dynamic Networks.” PEW Workshop
- 7/1998 “Adaptive Organizations and Emergent Forms” Plenary, Third International Conference on Multi-Agent Systems, Cite des Sciences - La Villette, Paris, France
- 7/1990 “Changing Information Technologies,” Keynote address IFPS Meeting. Pittsburgh, PA.

INVITED TALKS

- 11/2017 “Dynamic Network Based Assessment of Resiliency,” ETH Zurich Switzerland
- 11/2017 “Dynamic Social Networks: Findings and Challenges,” International University of Rabat, Morocco
- 10/2017 “Disinformation Campaigns,” SMA Fake News Speaker Session- Disinformation in Social Media, 120 call-ins from all major commands and agencies
- 10/2017 “Fake News,” South Big Data Hub Speaker Session
- 7/2017 “Controlling Communities in Social Media,” Dark Webs Panel at NASN, Washington DC
- 5/2017 “Dynamic Network Analysis,” The Hsue-Shen Tsien International Distinguished Scientists Lecture Series at Jiangtong University in Xi'an
- 4/2017 “Health Care Trails and Care Coordination for Use with ADT Data.” Pittsburgh Health Data Alliance – ‘The Next Big Thing’, Pittsburgh, PA
- 3/2017 “Network Analytics for Anti-Social Computing”, South Big Data Hub, Data Science Roundtable on Anti-Social Computing: Bots, Lies, and the New Information Environment, Institute for Software Research, CMU.
- 3/2017 “Wisdom or Ignorance: The Heedful Manipulation of Networks,” Informatics Institute, University of Florida, Gainesville, FL
- 2/2017 “Dynamic Network Analysis: Health Applications,” PHDL Seminar Series, University of Pittsburgh, PA
- 12/2016 “Dynamic Network Analysis and Big Data,” The Coffee Hour, Department of Geography, Pennsylvania State University, State College, PA
- 11/2016 “Changing Networks Due to Terms, Twitter and Threats,” Beckman Institute Lecture Series, University of Illinois at Urbana-Champaign, Urbana-Champaign, IL
- 10/2016 “Dynamic Network Analysis,” Porto, Portugal
- 9/2016 “Future for Dynamic Networks”, Future Directions in Network Sciences, Arlington, VA
- 3/2016 “Advances in Dynamic Network Analytics,” Chinese Academy of Science, Beijing, China
- 3/2016 “Dynamic Network Analysis,” SYSU-CMU International Joint Research Institute (JRI), Shunde, China
- 8/2015 “Tsunami Warning and Response Social Media System”, Badung Indonesia
- 8/2015 “Tsunami Warning and Response Social Media System & Demo”, Padang Indonesia
- 7/2015 “Characterizing Insider Threats Using Network Analytics,” Science of Security Label Meeting, Carnegie Mellon University, Pittsburgh, PA
- 6/2015 “Twitter Tacking System for Hazard Sees,” Hazard SEES Disaster Response Workshop, Pittsburgh, PA
- 5/2015 “Social Media Analytics- from the Arab Spring to ISIS,” Human Security and the New Information Environment Workshop, CASL, College Park, MD
- 4/2015 “Dynamic Network Analysis & Global Mapping,” National Research Council and NGA, Washington DC
- 4/2015 “Cyber Security & Dynamic Network Methodologies,” CERT, Pittsburgh, PA
- 11/2014 “Twitter for Disaster Planning in Padang,” Hazard SEES Disaster Response Workshop, Pittsburgh, PA
- 6/2014 “Dynamic Network Analysis,” Soft Power Solutions, Chantilly VA
- 5/2014 “Remote CBRNE Assessment using Dynamic Network Analytics,” Defense Threat Reduction Agency, Washington DC
- 5/2014 “Social Media Analytics,” ONR Demonstration Day, Arlington, VA
- 4/2014 “GENNET: Dynamic High Fidelity Synthetic Social Networks,” SMISC/Adams Review, Washington DC
- 4/2014 “Twitter Usage in Indonesia,” with J. Pfeffer, M. Malik, P. Landwehr, and W. Wei, Hazard SEES Disaster Response Workshop, Pittsburgh, PA

- 4/2014 "Using Twitter to Track Disaster Needs and Response," with J. Pfeffer, P. Landwehr, and W. Wei, and M. Malik, Hazard SEES Disaster Response Workshop, Pittsburgh, PA
- 2/2014 "The Power of Meta-Networks for Rapid Ethnographic Assessment," Università di Lugano, Lugano, Switzerland
- 10/2013 "The Power of Meta-Networks for Rapid Ethnographic Assessment," Duke University, Raleigh-Durham, NC
- 10/2013 "A Rapid Ethnographic Assessment of Myanmar," Social Computing and Crisis in the New Information Age, Brussels Belgium
- 10/2013 "Smart De-Identification," Social Computing and Crisis in the New Information Age, Brussels Belgium
- 10/2013 "Media and State Stability: Lessons Learned," Social Computing and Crisis in the New Information Age, Brussels Belgium
- 10/2013 "GENNET: Advanced System for Synthesis of High Fidelity Social Networks to Support SHIELD," SMISC/Adams Review, Washington DC
- 9/2013 "A Global Perspective on Cyber Attacks," NSA Security Lablet, Carnegie Mellon University, Pittsburgh, PA
- 9/2013 "Multi-Source Assessment for State Stability." Minerva, Washington DC
- 9/2013 "Open Source Exploitation for Understanding Covert Networks," Dark Networks, USMA, Westpoint, NY
- 8/2013 "Remote Capabilities Assessment," DTRA, Springfield, VA
- 8/2013 "Dynamic Network Analytic Applications for Big Data," ASONAM, Niagra Falls, Canada
- 7/2013 "Dynamic Network Analysis: Security Applications," Creighton University, Omaha Nebraska
- 7/2013 "Dynamic Networks: Diffusion and Evolution," Creighton University, Omaha Nebraska
- 3/2013 "Social Media and BioSurveillance: Deep Dive on Dynamic Network Analysis," PACOM S&T 2013, Honolulu, HI
- 7/2012 "Social Networks, Social Media, Social Change," AHFE 2012, San Francisco, CA with Jürgen Pfeffer.
- 7/2012 "Multi-Modeling and Socio-Cultural Complexity," AHFE 2012, San Francisco, CA with Geoffrey Morgan, Michael Lanham, Jürgen Pfeffer.
- 5/2012 "Dynamic Network Analysis," SOCCENT Deep Dive, SOCCENT Tampa, FL.
- 5/2012 "The Conversations of Every Day Life: From Trails to Networks," Vrije Universiteit, Amsterdam, Netherlands
- 3/2012 "Dynamic Network Analysis of Conflict Situations." Krasnow Institute, George Mason University, Fairfax, VA
- 2/2012 "Social Dynamics: Change in Web-Mediated Geographically Embedded Social Networks," AAAS, Vancouver, CA
- 12/2011 "Measurement & Modeling," Weak Tie Networks Workshop, Duke, Raleigh-Durham, NC
- 9/2011 "Dynamic Network Assessment for SNACR," OSD HSCB Open House, Arlington, VA
- 8/2011 "Network Dynamics," Graph Exploitation Symposium – Sensing and Sense Making, Endicot House, Boston, MA
- 7/2010 "Dynamic Network Analysis: COIN applications," Defense Science Board, COIN:ISR
- 6/2010 "Predicting Intentional and Inadvertent Non-compliance," IRS Research Conference, June 29-30, Washington, DC.
- 4/2010 "Individuals and Organizations: The Dynamic Networks of Conflict." Networks and Cognition Workshop, RPI, Troy NY
- 11/2009 "Geo-Spatial Dynamic Network Analysis", HSCB Geospatial Analysis, Modeling and Visualization Workshop.
- 11/2009 "Geo-Based Dynamic Network Metrics", Presented at the 2009 USACE Research and Development Conference, 2009 November, 17; Memphis, TN.
- 11/2009 "A Dynamic Network Analysis Approach to Trust", AFRL Trust Workshop, Dayton, OH.
- 10/2009 "Dynamic Network Analysis: Management and Intervention," Network Science Workshop, Carnegie Mellon University, Tepper School of Business, Pittsburgh, PA.
- 10/2009 "Multi-modeling, Meta-modeling and M&S Technology". *Modeling and Simulation in Support of Deterrence Campaign Planning workshop*. 2009 October 14 & 15; New Jersey
- 7/2009 "Validation and Agent-Based Models," Academy of Management Annual Meeting 2009, Professional Development Workshop, Applied Agent-based Modeling in Management Research (PDW Session 27), Chicago, IL, August 7, 2009.

- 6/2009 "Pattern Detection for Merchant Marine Vessel Traffic," Host, ONR Workshop, Carnegie Mellon University, Pittsburgh, PA. June 25-26, 2009.
- 4/2009 "Information & Belief Diffusion Through Social Networks: Empirically Grounded Simulation," Studying Society in a Digital World Conference, Princeton, New Jersey.
- 3/2009 "Dynamic Network Analysis", Dynamic Networks Workshop, Venice Italy.
- 12/2008 "Dynamic Network Analysis: From Words to Spatio-Temporal Network Analytics," Pennsylvania State University, State College, PA.
- 12/2008 "Dynamic Networks Analysis in the Security Domain," European Conference on Intelligence Security Informatics 2008, Copenhagen, Denmark.
- 10/2008 "Provision of Services and Information to the TaxPayer: A Computational Reasoning Approach," INFORMS, Washington D.C.
- 10/2008 "DNA-Hard Problems," Centra Tech., Washington D.C.
- 9/2008 "Networks and Trails," Oakridge National Labs, Knoxville, TN
- 5/2008 "Modeling and Simulation: State of the Art," Social-Cultural Workshop 2008, Washington D.C.
- 2/2008 "Identification of Human and Organizational Strengths and Vulnerabilities in C3I Structures that Enable or Inhibit Dynamic Decision Making," CTA ARL Meeting, Boulder, CO.
- 1/2008 "State of Computer Modeling of the Adversary." Defense Science Board Adversary Modeling Meeting, Washington D.C.
- 12/2007 "Trails and Networks: Analytics for Counter Terrorism," Lawrence Livermore National Laboratory, Livermore, CA.
- 11/2007 "Model Exemplar: Social Network Analysis," Strategic Multi-layer Assessment Work Shop, SOCOM, Tampa, FL.
- 10/2007 "BioWar: Validation and Forecasts related to Pandemic Influenza," International Conference on Complex Systems (ICCS-07), Boston, MA.
- 6/2007 "Managing and Disrupting Dynamic Networks," Director's Special Colloquium Talk, Argonne National Laboratory, Argonne, IL.
- 6/2007 "BioWar: Assessing the Impact of Pandemic Influenza on Cities using Multi-agent Network Models," The MORSS (Military Operations Research Society Symposium), U.S. Naval Academy, Annapolis, MD.
- 4/2007 "Predicting Networks," USMA Network Science Meeting, West Point, NY
- 3/2007 "Adversary Behavioral Modeling: Available Tools and Applications for the Warfighter," Montgomery, AL, Maxwell AFB
- 2/2007 "Assessing Terror Networks," Computer Science, Syracuse University, Syracuse, NY.
- 12/2006 "Adversarial Reasoning with Networks," Maritime Strategy Options Workshop, Naval War College, Newport, RI.
- 11/2006 "Modeling Terrorist Groups as Dynamic Networks," INFORMS Conference 2006, Pittsburgh, PA.
- 11/2006 "Merchant Marine Analysis Using Dynamic Network Techniques," Naval Research Lab.
- 10/2006 "Dynamic Network Approach to the Assessment of Terrorist Groups and the Impact of Alternative Courses of Action, NATO Conference, Copenhagen, Denmark.
- 10/2006 "Multi-agent Systems and Networks," Modeling Social Dynamics Workshop, National Science Foundation, Washington D.C.
- 10/2006 "Comparative Models," Terrorism Cell Modeling Conference, Centra Tech, Washington D.C.
- 6/2006 "Understanding Taxpayer Behavior and Assessing Potential IRS Interventions using Multi-Agent Simulations," 2006 IRS Research Conference, Georgetown University Law Sch, Washington, DC.
- 6/2006 "Defeat Enemy Network" Roundtable, Pentagon ARL.
- 6/2006 "Modeling IED Activity," NSF Countering IEDs Workshop, Washington D.C.
- 5/2006 "Dynamic Network Analysis for the Warfighter," Network Science Workshop, Washington D.C.
- 5/2006 "Dynamic Network Analysis Applications in Counter-Terrorism," Emory University, Atlanta, GA.
- 4/2006 "Social Network Analysis (SNA), a powerful social science assessment tool," Pentagon.
- 4/2006 "Blockmaps: Advanced visualization technology for exploring large social networks," International Network for Social Network Analysis, Sunbelt XXVI, Vancouver, British Columbia, Canada.
- 4/2006 "Social Network Data, Given Error: Evidence for the Construction of Confidence Intervals Around Network Measures," International Network for Social Network Analysis, Sunbelt XXVI, Vancouver, British Columbia, Canada.
- 2/2006 "Dynamic Social Network Modeling," Cultural Preparation of the Environment at the Schafer Corporation; Arlington, VA.

- 4/2006 "Beyond Social Networks: A Dynamic Network Analysis Approach Applied to Counter Terrorism", Bruce H. Mayhew Memorial Lecture; Columbia, SC.
- 4/2006 "Dynamic Network Analysis: A Computational Approach to Counter Terrorism Analyses," UIC.
- 4/2006 "Visualizing and Assessing Strengths and Vulnerabilities in C3I Structures," CTAC 06, Helping Soldiers with Soldiers, University of Maryland, MD
- 3/2006 "Social Network Analysis in Counter-Insurgency;" Department of Behavioral Sciences & Leadership, USMA, West Point, NY.
- 2/2006 "Counter-terrorism applications of Dynamic Network Analysis," U.S. Army Research Laboratory-Human Research & Engineering Directorate, APG, MD.
- 2/2006 "Counter-terrorism applications of Dynamic Network Analysis," Seminar at Baltimore-HRDT, Military
- 11/2005 "Dynamic Network Analysis Applied to Counter Terrorism," Northwestern University
- 10/2005 "Dynamic and Large Scale Networks in Complex Settings," CAS Lecture, UIUC
- 10/2005 "Dynamic Network Analysis Applied to Counter Terrorism," Dept. of Computer Science, Distinguished Lecture series, UIUC
- 4/2005 "Destabilizing Terrorist Networks," Understanding Terrorist Network Organizations, Naval Post Graduate School, Monterey, CA
- 1/2005 "Comp. Modeling of Organizational Processes," National Academies Board Meeting, California.
- 1/2005 "Dynamic Network Analysis," Yahoo Meeting, San Francisco, CA.
- 1/2005 "Computational Modeling of Organizational Processes," Columbia School of Nursing, New York, NY.
- 9/2004 "Advances in Tools for Dynamic Network Analysis", MKIDS Conference, Ft. Meade, MD.
- 7/2004 "Dynamic Network Analysis", Center for Army Analysis
- 6/2004 "Estimating Vulnerabilities in Large Covert Networks", 2004 CCRTS Evidence Based Research Conference.
- 5/2004 "A Structural Basis for Assessing Organizational Performance and Vulnerability", NYU Stern School of Business, NY.
- 3/2004 "BioWar," Bio Security Center, Washington, DC.
- 1/2004 "An integrated approach to evaluating strategic interventions in terrorist networks", Global War on Terrorism Tool Conference, MORS, US Naval War College Newport, Rhode Island.
- 9/21/03 "Counter terrorism modeling," PACOM HI, Camp Smith, HI
- 5/2003 "Dynamic Network Analysis and Anti-terrorism", Distinguished Lecture Series, Office of Naval Research
- 4/2003 "Assessing Destabilization Strategies", AFRL/HE Speaker Series 2003, Dayton, OH
- 3/2003 "Inhibiting and Abetting Emergence in Complex Socio-Technical Systems" STIET Seminar, University of Michigan
- 1/2003 "Multi-Agent Modeling for Bio-Defense" Society for Simulation and Modeling," VWSIM, Orlando, FL.
- 1/2003 "BioWar" Sandia National Labs, Albuquerque, NM
- 1/2003 "Inhibiting Adaptation in Dynamic Networks" Sandia National Labs, Albuquerque, NM
- 12/2002 "Modeling Covert Networks" National Research Council Round Table on, Washington, DC.
- 11/2002 "Dynamic Network Analysis" National Research Council Workshop on Social Network Modeling and Analysis, Washington DC.
- 9/2002 "Cognitive Mapping" Academy of Management, Denver, CO.
- 9/2002 "Conflict Management" Academy of Management, Denver, CO.
- 3/2002 "Adaptive Teams: A Knowledge Network Approach" Naval Post Graduate School, Monterey, CA
- 3/2002 "Adaptive Organizations: A Knowledge Network Approach" Wharton, Philadelphia, PA
- 2/2002 "Encouraging Destabilization" SAIC, McLean VA
- 2/2002 "Controlling Network Change: Stopping Adaptation and Encouraging Destabilization" INSNA Sunbelt Social Network Conference, New Orleans LA
- 2/2002 "Adaptive Organizations: Linking Networks and Knowledge" MIT Economic Sociology Seminar
- 2/2002 "Designing Adaptive Technology Enhanced Teams" Information Sciences and Technology Distinguished Lecture Series, Penn State, College Station, PA
- 1/2002 "Destabilizing Networks" Society for Computer Simulation, VWSIM, San Antonio, TX
- 1/2002 "Destabilization of Networks Related to Terrorism" SAIC, McLean VA
- 1/2002 "Designing Adaptive Organizations" Rensselaer Polytechnic Institute. Troy, NY.

- 12/2001 “De/Stabilizing Dynamic Networks” The Cambridge Colloquium on Complexity and Social Networks (CCCSN), Harvard University
- 10/2001 “Computational Organization Science: A New Frontier” National Academy of Science, Sackler Colloquium on Adaptive Agents, Beckman Center, Irvine, CA
- 9/2001 “Impediments to Adaptation: A Social-knowledge Network Perspective” Defeating Emergence Workshop, SAIC, Washington DC
- 5/2001 “The CASOS Approach” Japanese Organizational Science Workshop, Tokyo Japan
- 3/2001 “Organizations as Complex Systems” Biocomplexity Conference, Beaufort, NC
- 2/2001 “Network Based Knowledge Management and Organizational Change”, University of Arizona, Tucson, AZ.
- 2/2001 “Organizations as Intelligent Complex Adaptive Systems” Arizona State University
- 11/2000 “Computational Organizational Models” Tutorial, International Joint Conference IBERAMIA 2000, Sao Paulo Brazil
- 10/2000 “Organizational Change: A Knowledge Interaction Perspective” Marschak Colloquium, UCLA, Los Angeles, CA
- 9/2000 “Managing Change: An Interaction Knowledge Perspective”, Conference on Complexity and Public Policy, Rand, Washington DC
- 8/2000 “Organizational Adaptation and ORGAHEAD”, NATO Workshop, Naval Center for Applied Research in Artificial Intelligence, Ft. Meade, VA
- 8/2000 “The Value of Agent Based Models for Organizational Science”, Academy of Management, Toronto, Canada
- 8/2000 “Quantitative Methods for Applying Complexity Theory to Organizations: Simulation Based Approaches”, Academy of Management, Toronto, Canada
- 6/2000 “Team Analysis”, Aptima, Boston MA
- 5/2000 “Constraint Based Adaptation in Organizations”, NECSI, Nashua, NH
- 5/2000 “ORGAHEAD and architecture Design and Analysis”, Jacobia Meeting, George Mason University, Washington, DC.
- 11/1999 “Culture as Knowledge Level Dynamics” Toward a Sociology of Culture and Cognition, Sociology Conference, Rutgers University
- 10/1999 “Agents Plus: New directions in modeling social and organizational systems” Agent Simulation Workshop, University of Chicago
- 8/1999 American Sociological Association – Didactic Seminar – Computational Analysis
- 7/1999 “Opening up the Black Box: Organizational Design as Dynamic Networks” The Pew Center on Global Climate Change 1999 Workshop on the Economics and Integrated Assessment of Climate Change, Washington D.C.
- 5/1999 “Organizational Adaptation and the Digital Economy” Digital Economy Conference, Washington D.C.
- 5/1999 “Computational Models of Change in Institutions”, CIS-HDGC, CMU, Pittsburgh, PA
- 5/1999 “Organizations in the Next Millennium” GSIA 50th Anniversary, Pittsburgh, PA
- 4/1999 “On the Evolution of Social and Organizational Networks” Networks and Governance Series, Columbia University, New York, NY.
- 4/1999 “Computational Analysis of Teams.” Human Centered Design Environment Workshop, Wintergreen, VA.
- 2/1999 “Computational Organizational Science” NSF CSS workshop, CA
- 12/1998 “Entrepreneur Profiles.” Kaufman Foundation, Kansas City, Kansas
- 12/1998 “To Learn is Human, To Learn and Learn is Social.” Complex Systems Seminar, University of Michigan, Ann Arbor, MI.
- 12/1998 “Learning in an Uncertain Environment.” RPI, Troy, NY
- 10/1998 “A Computational Organization Theory Perspective on Modeling Organizations.” Human Factors Society Conference, Chicago, IL
- 6/1998 “Examining Adaptation and Flexibility in Command and Control Architectures.” Army After Next, Xerox Document University
- 6/1998 “Learning Within and Among Organizations”, Organizational Learning Conference, CMU, Pittsburgh, PA
- 5/1998 “Organizational Perspective.” NRC report at Computer Generated Forces conference, Orlando, FL.

- 4/1998 "Organizational Adaptation: Learning and the Changing Environment." Anderson School, UCLA, Los Angeles, CA.
- 1/1998 "Socio-Cognitive Dynamics: Learning in an Uncertain Environment." Dept. of Sociology, Cornell, University, Ithaca, NY.
- 1/1998 "The Risk of Adaptation." Workshop on "The potential of computer simulation in the social sciences" University of Surrey, Guildford, UK.
- 11/1997 "Modeling Organizations" Workshop on Cognitive Models in the Design and Operation of Complex System, CHI Systems, Baltimore, MD
- 10/1997 "Dynamic Organizations: Organizational Adaptation in a Changing Environment," INFORMS, Dallas, TX
- 8/1997 "Organizational Adaptation and Cognition," Cognitive Science Conference, Stanford Univ.
- 8/1997 "The Knowledge Gap" Conference on Interactions-Based Models in the Social Sciences." Santa Fe Institute, Santa Fe, NM.
- 6/1997 "Adaptive Organizations: The Clash of the Learning Levels" HKUST, Hong Kong
- 4/1997 "Organizational Adaptation," University of Kansas, KA.
- 4/1997 "Computational Organization Theory," NSF ITO Workshop
- 3/1997 "Measuring C2 Structure" A2C2 Workshop, Williamsburg, VA
- 10/1996 "Intelligent Agents and Strategic Adaptation," ITESM, Monterrey Mexico
- 10/1996 "Modeling Intelligent Agents and Organizations," NRC - Committee on Human Behavior and Military Simulation
- 10/1996 "Organizational Annealing," Columbia University, NY.
- 8/1996 "Culture and Text Analysis," American Sociological Association Mtgs. New York, NY.
- 8/1996 "Organizational Adaptation: A Simulated Annealing Perspective," Santa Fe Institute, Santa Fe, NM.
- 5/1996 "Computational Organization Theory and Information Systems" INFORMS - CWC on Information Systems
- 2/1996 "Can Organizations Learn if They Restructure?" Cornell University, Johnson School of Business, NY.
- 2/1996 "Computer Aided Textual Analysis" Case Western University
- 1/1996 "The Basis of Socialness" Special Conference in the Social Sciences, Columbia University
- 1/1996 "Complexity and Organizations" Informs Winter Conference, Complexity Panel, Aspen, CO.
- 8/1995 "Computational Sociology," American Sociological Association Mtgs. Washington D.C.
- 4/1995 "Advances in Computational Organization Theory," INFORMS
- 4/1995 "The Evolution of Organizational Forms" UCLA, Los Angeles, CA
- 8/1994 "VDT and Organizational Models," SantaFe Institute - Workshop on Computational Organization Theory
- 11/1993 "Organizational Shifts," George Mason University, C3I, Washington D.C.
- 10/1993 "MECA Applications," Annenberg School for Communication, Philadelphia, PA
- 10/1993 "Strategies for Communication," Annenberg School for Communication, Philadelphia, PA with David Kaufer
- 9/1993 "Artificial Organizations" Cyert Conference, CMU, Pittsburgh, PA
- 6/1993 "Organizational Designs Suited to High Performance Under Stress" Symposium on Command and Control, Washington D.C.
- 6/1993 "Random Graphs: Three Applications" Classification Society of North America, Annual Meeting, Pittsburgh, PA.
- 5/1993 "Artificial Social Intelligence," Invited Panel. 1993 Conference on Computing for the Social Sciences, National Center for Supercomputing Applications, University of Illinois at Urbana-Champaign
- 3/1993 "Next Time We Get Organized" Hurricane Conference Miami with Jack Harrald
- 12/1992 "MECA," International Congress on Computer Tools in the Social and Behavioral Sciences in Amsterdam, The Netherlands.
- 12/1992 "Organizational Learning," Gronighen, The Netherlands.
- 11/1992 "Comparing Approaches for Near Optimal Solutions in a Distributed Decision Making Environment," ORSA/TIMS, San Francisco, CA.
- 10/1992 "Training and Organizational Performance" Dept. of Sociology, University of Iowa, Iowa City, IA.
- 3/1992 "Co-evolution of Self and Society," Heinz Carnegie Mellon University, Pittsburgh, PA.

- 3/1992 "Simulating Society," University of Pittsburgh, Pittsburgh, PA.
- 3/1992 "Society, Culture and Technology: Toward an Integrated Theory of the Role of Communication in Social Change," Taft Lecture Series, University of Cincinnati, Cincinnati, Ohio.
- 3/1992 "Emergence of Scientific Fields," Sociology Colloquium, University of Cincinnati, Cincinnati, Ohio.
- 11/1991 "Analysis of Qualitative Data," Society for the Scientific Study of Religion, Panel on Methods, Pittsburgh, PA.
- 10/1991 "Getting the Job Done," Clarkson University. Potsdam, NY. with Sara Kiesler
- 8/1991 "Coevolution of Structure and Culture: A Socio-Cognitive Approach," Conference on Small Group Behavior. Cincinnati, OH.
- 8/1991 "Examining Socio-Cultural Change Through Language," New Hampshire 1991 Theory Survey — Boundaries and Units. Enfield, NH.
- 5/1991 "Organizational Design and Performance," Conference on Mathematical Organizations Theory. Nashville, TN.
- 2/1991 "Social and Cultural Evolution: A Cognitive Basis for Social Change," Northwestern University. Chicago, IL.
- 1/1991 "Coordination for Effective Crisis Performance When Training Matters," Rensselaer Polytechnic Institute. Troy, NY.
- 9/1990 "The Organizational Structures Most Responsive to Crises," National Research Council Research Workshop on Organizational Issues in US Nuclear Policy. Oakland, CA.
- 8/1990 "Computer Analysis of Qualitative Data," Didactic Seminar. American Sociological Association Meetings. Washington D.C.
- 7/1990 "Multi-Agent Soar," Special conference on AI and Organization Theory. CCSOM. Amsterdam, The Netherlands.
- 3/1990 "Coordinating for Success: An Examination of Organizational Learning and Performance," GSIA Carnegie Mellon University, Pittsburgh, PA.
- 8/1989 "Computer Analysis of Qualitative Data," Didactic Seminar. American Sociological Association Meetings. San Francisco, CA.
- 6/1989 "Organizational Learning and Personnel Turnover." NSF sponsored conference on Organizational Learning: Carnegie Mellon University, Pittsburgh, PA.
- 5/1989 "Group Stability: A Socio-Cognitive Approach," Social Relations Dept. University of California Irvine, Irvine, CA.
- 5/1989 "Simulation and Social Theory," Sociology Dept. University of California Riverside, Riverside, CA.
- 5/1989 "Predicting Interaction Using Simulation: The Tailor Shop Case," USCB Social Network Seminar. University of California Santa Barbara, Santa Barbara, CA.
- 4/1989 "The Impact of Electronic Mail on the Scientific Community: The Diffusion of Soar," McLuhan Program in Culture and Technology and the Faculty of Library and Information Science seminar series University of Toronto, Toronto, Canada.
- 4/1988 "The Social Sciences at CMU," HandSS Program for Margaret Morrison Alumnae.
- 2/1988 "Electronic Mail and the Diffusion of Scientific Information," Xerox Parc. Palo Alto, CA.
- 12/1987 "Crisis Management and the Garbage Can Model of Organizational Choice," Red Cross and Washington Operations Research Management Science Council. MITRE Corporation, Washington D.C.
- 11/1987 "Constructuralism: Relating Social to Cognitive Structure," Sociology Dept. Colloquium. Cornell University. Ithaca, NY.
- 5/1987 "Producing Social Stability and Consensus," Sociology Dept. Colloquium. University of California Los Angeles. Los Angeles, CA.
- 5/1987 "Constructuralism: Combining Social and Cognitive Networks," Social Relations Dept. Colloquium. University of California Irvine. Irvine, CA.
- 4/1987 "Producing Social Stability," Sociology Dept. Colloquium. University of South Carolina. Columbia, SC.
- 11/1986 National Research Council, Committee on Human Factors, Workshop on Distributed Decision Making. Washington D.C.
- 3/1986 "Separating the Effect of Structure and Interaction," Stanford Business School. Stanford, CA.
- 5/1985 "Social Groups and Computer Mail," Network Seminar. Harvard University. Cambridge, MA.

K.M. Carley December 12, 2017

- 1/1984 "Garbage Can Efficiency - A Simulation," Joint Naval Workshop on Organizations. Monterrey, CA.
4/1984 "Relating Social Structure to Cognitive Conceptions," Social Networks Group. Harvard University. Cambridge, MA.
6/1977 "The Burro Problem in the Grand Canyon, A System Dynamics Model," National Park Service, Department of the Interior. Grand Canyon National Park, AZ.
10/1976 "CASCON: A Users Guide," MIT, Political Science. Cambridge, MA.
10/1975 "CASCON: A Users Guide," MIT, Political Science. Cambridge, MA.

CONFERENCE PRESENTATIONS

- 2016,2017 TIDESPRINT
2017 NASN
2015 HotSOS 2015, Champaign-Urbana IL
2014, 2015 Political Networks Conference
2014 Cyber Security Workshop, Boston MA
2013, 15, 16 ASONAM
2013 SAMSI
2013 World Summit on Big Data and Organization Design, Paris Fr.
2013 Social Computing and Crisis in the New Information Age, Brussels Be.
2013 PACOM S&T
2012 UBICOM
2012 GEOINT
2012 Networks in a Global World Conference
2012 AAAS
2011 HSCB Open House
2011 Social Media Symposium, Ottawa, Canada
2011 Focus2011
2011 International Conference on Software Engineering
2010 IRS Research Conference
2010 Focus2010
2009 ONR Merchant Marine Vessel Workshop
2009 Informs
2008 Second World Conference on Social Simulation
2008 National HIDTA Conference
2007 AMIA 2007 Annual Symposium
2007 Huntsville Simulation Conference (HSC)
2007 AAMAS (Autonomous Agents and Multiagent Systems)
2007 European Accounting Association Conference, Lisbon
2007-09 USMA Network Science
2015,16, 17 SBP-BRIMS
2007,11, 12, 13 BRIMS
2006,2008 MORS
2006, 2007 STEP
2005,2007-09,12-13 AFOSR/Cultural Modeling
2005, 2008 SIAM
2003,2004 MKIDS Conference
2004,2005 TACC-DARPA/IXO Workshop
2003-2004,07 NAACSOS
2003 IMA Conference
2003 ORGSIM Workshop
2003 8th International Command Symposium
2003 Institute for Mathematics Workshop
2002 Arrowhead
2001 NSF Design, Service and Manufacturing Grantees and Research Conference
2000 IBERAMIA
2000-2003 CASOS Conference
1999,2000 PITA Symposium

K.M. Carley December 12, 2017

1999,00,02 Agents
1998 Human Factors Society
1998 AAAI Fall Symposium Series
1986,96,97,99-03,05,09,10,14 Academy of Management
1996 Informs Winter Conference
1996-05 A2C2 meetings
1993-04,07 International Symposium on Command & Control Research and Technology (CCRTS) (was C3I)
1997 Cognitive Science
1985,87-01 American Sociological Association Meeting
1985-94,96-97,99-00,02-17 INSNA Sunbelt International Social Network Conference
1995 Association for Information Systems
1990 Hawaii International Conference on System Sciences
1990 Public Choice Meetings
1990 American Anthropological Association Meetings
1989-1990 4S
1989 International Conf. on Industrial and Crisis Management
1989 Midwestern Sociological Society Meetings
1987-1988 Eastern Sociological Association Meeting
1984,88-89,91-94 ORSA/TIMS
1995-97,06-09 INFORMS
1986-90, 1992 Soar Workshop
1985 International Conf. on Artificial Intelligence and Learning
1979 Social Psychology Conference
1990-2000 Computational and Mathematical Organization Theory Workshop

SHORT COURSES AND EXECUTIVE EDUCATION

11/2017 "Introduction to Social Network Analysis for Social Media," International University of Rabat, Morocco
7/2017 "Dynamic Network Analysis for Intelligence & Security," Institute for Strategic Analysis, Washington, DC
7/2017 "DNA & ORA," North American Social Network Meeting, Washington, DC
7/2017 "Social Influence and Groups in Twitter," SBP-BRiMS, Washington, DC
7/2017 "Geo-Temporal Network Visualization," SBP-BRiMS, Washington, DC
6/2017 "DNA, Networks and Simulation," CASOS Summer Institute
5/2017 "DNA & ORA," INSNA Sunbelt XXXVII, Beijing, China
4/2017 "Social Media Analytics Using ORA," STRATCOM Center of Excellence, Riga, Latvia
2/2017 "Dynamic Network Analytics for Cyber Security," Army War College
10/2016 "Network Science and Social Network Reasoning," Executive Short Course on Decision Science, Risk and Network Analysis, ISA, Washington DC
9/2016 "Twitter System for Tsunami Warning & Demo," IOWAVE 2016 Conference, Padang Indonesia
8/2016 "Social Media Analytics in ORA," Ft.McNair, Washington DC
6/2016 "Identifying Covert or Hidden Groups in Twitter," SBP-BRiMS 2016, Washington DC
6/2016 "Network Analytics in ORA," SBP-BRiMS 2016, Washington DC
6/2016 "DNA, Networks and Simulation," CASOS Summer Institute
5/2016 "Network Science and Social Network Reasoning," Executive Short Course on Decision Science, Risk and Network Analysis, ISA, Washington DC
4/2016 "DNA & ORA," INSNA Sunbelt XXXVI, Newport Beach, USA
8/2015 "DNA & Disaster Management," ITB PEER students, Padang Indonesia
8/2015 "Bot Detection in Social Media: Networks, Behavior, and Evaluation," ASONAM 2015
7/2015 "DNA, Networks and Simulation," CASOS Summer Institute
6/2015 "Dynamic-network analysis and *ORA", INSNA Sunbelt XXXV, Brighton UK
4/2015 "Social Network Analysis for Science of Security," HotSOS, Urbana-Champaign, IL
4/2015 "DNA, Networks and Simulation," SBP-BRiMS 2015, Washington DC
7/2014 "Dynamic-network analysis", CMU Executive Education
6/2014 "DNA, Networks and Simulation," CASOS Summer Institute
8/2013 "Network Analytics," ASONAM, Niagra Falls, NY, USA
7/2013 "AutoMap and ORA," Training Course, Creighton University, Omaha Nebraska

- 6/2013 "DNA, Networks and Simulation," CASOS Summer Institute
6/2012 "DNA, Networks and Simulation," CASOS Summer Institute
5/2012 "Dynamic Network Analysis," Master's Course, Vrije Universiteit
3/2012 "Dynamic Network Analysis," 2012 International Conference on Social computing, Behavioral - Cultural, Modeling and Prediction (SBP12), Hyattsville, MD
3/2012 "Relational Text Analysis and Network Analysis: From AutoMap to ORA," INSNA Sunbelt XXXII
3/2012 "Dynamic Network Analysis (DNA) and *ORA," INSNA Sunbelt XXXII
3/2012 "Network Dynamics, Simulation and Construct," INSNA Sunbelt XXXII
10/2011 "Network Analysis." USMA, Westpoint, NY
7/2011 "Dynamic Network Analysis," Lipari Summer School, Lipari Italy
6/2011 "DNA, Networks and Simulation," CASOS Summer Institute
6/2010 "Dynamic Network Analysis," ISSH, New York, NY
6/2010 "DNA, Networks and Simulation," CASOS Summer Institute
11/2009 "DNA and SORASCS," Pacific Science and Engineering, Pittsburgh, PA
10/2009 "Dynamic Network Analysis," Tampa, FL
9/2009 "Dynamic Network Analysis," Ft. Monmouth, NJ
7/2009 "Socio-technical systems as networks: Representation and analysis," DRDC Center for Security Science, Ottawa,CA
6/2009 "Networks and Simulation," CASOS Summer Institute
6/2008 "Networks and Simulation," CASOS Summer Institute
5/2008 "Dynamic Network Analysis," USMA
6/2007 "Networks and Simulation," CASOS Summer Institute
4/2007 "Dynamic Network Analysis," CIA
4/2007 "Dynamic Network Analysis," NDIC
3/2007 "Dynamic Network Analysis," CIA
8/2006 "Dynamic Network Analysis," Army Research Labs
6/2006 "Networks and Simulation," CASOS Summer Institute
9/2005 "Dynamic Network Analysis," Aerospace Corporation
6/2005 "Networks and Simulation," CASOS Summer Institute
11/2004 "Organizational Security," University of Pittsburgh
6/2004 "Networks and Simulation," CASOS Summer Institute
1/2003 "Dynamic Network Analysis," Sandia National Labs
6/2003 "Networks and Simulation," CASOS Summer Institute
5/2002 "E-government: A Security Perspective," Korean Executive IT Policy Program
6/2002 "Networks and Simulation," CASOS Summer Institute
11/2001 "Computational Modeling for Organizations," CIO Institute
6/2001 "Networks and Simulation," CASOS Summer Institute
11/2000 "Computational Organizational Models," Tutorial, Int. Joint Conference IBERAMIA 2000, Sao Paulo Brazil
7/2000 "Acquiring Tacit Knowledge," CIO Institute
6/2000 "Networks and Simulation," CASOS Summer Institute
4/2000 "Computational Social Science," INSNA Sunbelt Meeting
4/2000 "Networks and Information Security," Merrill Lynch
4/2000 "Dynamic Organizations: Organizational Adaptation in a Changing Environment" CIO Institute
8/1999 "Computational Social Science," Didactic Seminar. American Sociological Association. San Francisco, CA.
6/1999 "Networks and Simulation," CASOS Summer Institute
1/1997 "Network Based Text Analysis," Universite' Leonardo DaVinci
2/1996 "Computer Aided Textual Analysis" Case Western University
8/1990 "Computer Analysis of Qualitative Data," Didactic Seminar. American Sociological Assoc. Washington D.C.
8/1989 "Computer Analysis of Qualitative Data," Didactic Seminar. American Sociological Assoc. San Francisco, CA.

EDITORIAL ACTIVITIES

2013-2017 IEEE Transactions on Network Science and Engineering — steering committee

2014-	IEEE Transactions on Computational Social Systems — Associate Editor
2010-	Social Network Analysis and Mining — Editorial Board
1999-	Field Methods — Editorial Board
1997-	Journal of Artificial Societies and Social Simulation — Editorial Board
1995-	Computational and Mathematical Organization Theory — Founding Co-Editor
1999-2007	Journal of Social Structure — Editorial Board
1998-2000	Journal of Cognitive Systems — Editorial Board
1997-1999	Structural Analysis: A Journal of Theory and Applied Research — Editorial Board
1996-1999	Organization Science — Special Issue on Complexity — Guest Co-Editor
1995-1999	Management Science — Associate Editor
1995-1998	Sociological Methodology — Editorial Board
1994-1996	The Journal of Mathematical Sociology — Editorial Board
1994-1997	International Journal of Intelligent Systems in Accounting, Finance and Management — Editorial Board
1994-1998	Sociological Methods and Research — Editorial Board
1994-1996	Sociological Methods and Research — Guest Editor for special issue on AI and Sociology
1994-1996	The Journal of Mathematical Sociology — Guest Editor, special issue on Computational Org. Theory
1993	International Journal of Intelligent Systems in Accounting, Finance and Management — Guest Co-Editor for special issue on Mathematical and Computational Models of Organizations: Models and Characteristics of Agent Behavior
1989-1994	Information and Decision Technologies — Associate Editor

REVIEW ACTIVITIES

Academy of Management Review	Nature
Accounting, Management and Information Technologies	NSF
Administrative Science Quarterly	Office of Naval Research
Air Force	Operations Research
American Journal of Sociology	Organization Science
American Sociological Review	Organizational Behavior and Human Decision Processes
American Sociologist	PNAS
Applied Behavioral Science Review	Poetics
Army Research Office	SBP
BRiMS	SBP-BRiMS
Computational & Mathematical Organization Theory	Science
Idaho Science Board	Social Forces
IEEE Engineering Management	Social Networks
IEEE Systems Man and Cybernetics	Social Psychology Quarterly
IEEE Transactions on Computational Social Systems	Sociological Methodology
Industrial and Corporate Change	Sociological Methods and Research
Information and Decision Technologies	Sociological Perspectives
International Journal of Intelligent Systems in Accounting, Finance and Management	Stanford University Internal Grants
Journal of Artificial Societies and Social Simulation	Structural Analysis: A Journal of Theory and Applied Research
Journal of Social Structure	Technology Studies
Management Science	The Journal of Mathematical Sociology
NATO	

PROFESSIONAL ACTIVITIES

2017	Trident Joust 2017 Participant
2017	CCC Cyber Security Workshop Member
2017	South Big Data Hub Social Cyber Security Working Group – Co-Chair
2017-2018	NRC Panel Member, Decadel Study

2017-2018 SBP-BRiMS 2018 Conference Chair
2016-2017 SBP-BRiMS 2017 Conference Chair
2015-2016 SBP-BRiMS 2016 Conference Chair
2014-2016 NRC Panel Member, “Models of the World”
2013-2016 NRC Panel member, ARL review
2013-2017 Steering Committee and Advisory board IEEE Network Sciences Group
2012-2014 DHS Homeland Security Science and Technology Advisory Committee
2012-2013 NRC Panel member, “Math Digital Library”
2010-2013 NRC Panel member, “NGA Workforce Evaluation”
2010-2013 NRC Panel member, “Massive Data Analysis”
2008-2009 NRC Committee for “Applications of Social Network Analysis for Building Community Disaster Resilience: A Workshop”
2007-2008 Task Force Member for Defense Science Board: Human Behavioral Modeling
2007-2008 GIST, Stratcom, Task Force Member
2005-2006 NRC Panel member; Modeling and Simulation for Defense Transformation
2005-2006 NRC Panel member; Organizational Models: From Individuals to Societies
2005-2006 NRC Panel member; Defense Modeling and Simulation
2002-2004 Founding President of the North American Association of Computational Social and Organizational Systems
2002 Panel member for SAIC group on terrorism, Project MacDuff.
2001 Panel member for Threat Anticipation Workshop, DTRA Advanced Systems and Concepts Office
2001 Panel member for Defeating Emergence Workshop, SAIC
2001 NSF Workshop on Converging Technology (NBIC) for Improving Human Performance
1999-2005 Organizer of Annual CASOS Summer Institute
1999-2002 Annual Conference Co-organizer of CASOS Conference (formerly CMOT)
1999-2000 ICMAS Program Committee for ICMAS 2000
1999-2000 President of the Mathematical Sociology Section of the American Sociological Association
1998-1999 President Elect of the Mathematical Sociology Section of the American Sociological Association
1997-1998 Panel member for NAS/NRC special meeting on Population
1996-1998 Member NSF Advisory Panel for Sociology
1996-1998 Member of the NAS/NRC Committee on Human Behavior and Military Simulation
1996-1997 NSF ITO Steering Committee
1996 Workshop Organizer and Presenter — CCOR Workshop on Modeling Organizations
1996 Co-organizer Festschrift for Harrison White
1990-2000 Co-organizer of Social Network Seminar Series (3 Rivers Network), Carnegie Mellon University and University of Pittsburgh
1990-2000 Co-organizer of Bi-Weekly Groups and Organizations Seminar (GO), Carnegie Mellon University and University of Pittsburgh
1993-1999 Conference Co-Organizer — Annual Computational and Mathematical Organizations Theory Workshop (INFORMS [ORSA/TIMS])
1991-1993 Conference Co-Organizer — Annual Mathematical Organizations Theory Workshop (ORSA/TIMS)
1995-1996 Member of the Nominations Committee for the American Sociological Association Meeting
1994-1995 Member of the Membership Committee for the Occupations and Organizations Section for the American Sociological Association
1994-1995 President of the Sociology and Computers Section of the American Sociological Association
1993-1994 President elect of the Sociology and Computers Section of the American Sociological Association
1993-1994 Board member for the AAAS/ABA National Conference
1993-1994 Newsletter Editor for ORSA/TIMS College on organizations
1993-1994 Session Organizer — Social Cognition and Networks — International Network for Social Network Analysis
1993-1993 Conference Co-Organizer — Textual Analysis Workshop
1991-1992 Conference Co-Organizer — Advances in Social Theory
1991-1992 Conference Organizer — Group Processes Conference (ASA)
1991-1992 Session Co-Organizer — Scientific Networks — Sunbelt International Social Network Conference
1991 Steering Committee for “International Consortium on Network Research” — CMU Representative

K.M. Carley December 12, 2017

1990-1991 Conference Organization Committee — New Hampshire 1991 Theory Survey — Boundaries and Units
2/1991 Session Chair — Networks in Science — Sunbelt International Social Network Conference
1990-1991 Organizer — Section on Micro-computing: Computer-Assisted Research — American Sociological Association Meeting
9/1990 National Research Council, Committee on Contributions of Behavioral and Social Science to the Prevention of Nuclear War. Workshop on Organizational Issues in U.S. Nuclear Forces, Oakland, CA.
1989-1990 Organizer — Regular Session. Social Networks: Advances in Methodology — American Sociological Association Meeting
1989-1990 Organizer — Regular Session. Social Networks: Network Dynamics and Organizations — American Sociological Association Meeting
1989-1990 Program Committee — Microcomputing Section — American Sociological Association
1986 National Research Council, Committee on Human Factors, Workshop on Distributed Decision Making. Challenger. Washington D.C.
7/1989-6/1990 Board of Trustees of the Operations Research Society of America/Social Sciences Applications Special Interest Group

PROFESSIONAL MEMBERSHIPS

2006- ACM
2006- IEEE
2003-2010 North American Association for Computational Social and Organizational Systems (NAACSOS)
1998- Academy of Management
1994- INFORMS [ORSA/TIMS]
1993- AAAS
1989-1990 ORSA Social Sciences Applications — Special Interest Group
1988- Sigma XI
1987-1990 Eastern Sociological Association
1985- International Network for Social Networks Analysis
1980- American Sociological Association

THESES SUPERVISION

CARNEGIE MELLON UNIVERSITY: PH.D. THESIS — ADVISOR

6/2016-5/2017 Matthew Benigni (ISR)
12/2015-12/2016 Wei Wei (ISR)
5/2015-8/2016 Kenneth Joseph (ISR)
2/2015- Geoffrey Morgan (ISR)
12/2014-5/2016 William Frankenstein (EPP)
4/2014-5/2015 Ghita Mezzour (ECE & ISR) with L. Richard Carley
9/2013- Peter Landwehr (ISR)
1/2013-5/2015 Michael Lanham (ISR)
12/2011-1/2013 Eric Daimler (CMU-self defined) with Jim Morris
10/2012-8/2013 Miray Kas (ECE) with L. Richard Carley
8/2010- Brian Hirshman (ISR)
7/2010-12/2012 Jana Diesner (ISR)
6/2010-5/2014 Rob Behrman (EPP)
9/2009-1/2012 George Davis (ISR)
3/2009-5/2014 Terrill Frantz (ISR)
3/2008-5/2012 Marcus Louie (EPP)
2/2008-5/2009 Victoria Yuhás-Hill (EPP)
3/2008-5/2009 Patrick Wagstrom (ISR and EPP)
3/2008-5/2009 Ian McCulloh (ISR)
11/2007-8/2008 Il-Chul Moon (ISR)
1/2007-1/2008 Marcelo Cataldo (ISR) with Jim Herbsleb
5/2006-5/2007 Mike Ashworth (ISRI)

1/2006-1/2007 Edoardo M. Airoidi (ISRI) with Steve Feinberg
6/2005-9/2006 Craig Schreiber (ISRI)
8/2004-10/2006 Alex Yahja (ISRI)
10/2004-6/2005 John Graham (ISRI)
7/2004-6/2005 Maksim Tsvetovat (ISRI)
1/2000-5/2008 Ju-Sung Lee (Social and Decision Sciences)
8/2001-8/2003 Li-Chiou Chen (Engineering and Public Policy)
1/2000-5/2003 Eleanor Lewis (Social and Decision Sciences) NSF Dissertation Award, Simon Award
6/2000-5/2002 Carter Butts (Social and Decision Sciences) NSF Dissertation Award, Simon Award
1/2000-8/2001 Bonnie Brinton Anderson (H.J. Heinz III School of Public Policy and Management)
9/1997-12/2000 Lille Caroline Springall-Gautier (Graduate School of Industrial Administration)
10/1998-5/1999 David Kaplan (H.J. Heinz III School of Public Policy and Management)
2/1997-12/1999 Tiziana Casciaro (Social and Decision Sciences)
5/1996- 5/1999 Brian Butler (Graduate School of Industrial Administration)
9/1995-12/1998 Vanessa Hill (Graduate School of Industrial Administration)
6/1995- 5/1998 Diana Gant (Social and Decision Sciences)
5/1997-5/1998 Sumit Chowdhury (H.J. Heinz III School of Public Policy and Management)
1/1995-12/1997 Dean Behrens (Social and Decision Sciences) NSF Dissertation Award
9/1990-5/1994 Zhiang Lin (H.J. Heinz III School of Public Policy and Management)

CARNEGIE MELLON UNIVERSITY: PH.D. THESIS — COMMITTEE MEMBER

1/2012-1/2013 Lyndsey Schutte (Bio)
9/2008 Yun Shang Chiou (Architecture)
4/2010-12/2010 Xiaoqian Jiang (ISR)
1/2005-5/2007 Carol Frieze (SCS)
1/2005-5/2006 Brad Malin (ISRI)
5/1998-5/2001 Neil Strachan (Engineering and Public Policy)
8/1996-6/2000 Rangaraj Ramanujam (Graduate School of Industrial Administration)
12/1997-5/1999 Hisashi Yamagata (H.J. Heinz III School of Public Policy and Management)
5/1997-10/1998 Dan Teitelbaum (Engineering and Public Policy)
11/1997 Kung-Jen Tu (School of Architecture)
9/1994-12/1996 Faison Gibson (Graduate School of Industrial Administration)
9/1994-5/1995 William Wescott (Engineering and Public Policy)
8/1989-5/1990 Michael Palmquist (English)
5/1989-12/1990 Bing Wang (H.J. Heinz III School of Public Policy and Management)
5/1988-5/1990 Paul Zahray (Engineering and Public Policy)
5/1986-5/1989 Stuart Shapiro (History)

NON CMU: PH.D. THESIS — COMMITTEE MEMBER

11/2017- Felicia Natalia (Singapore University)
10/2017- Larry Lin (Singapore University)
12/2016-7/2017 Fred Morstatter (Arizona State University)
6/2014-5/2015 Angela Burth (University of Phoenix)
6/2014-6/2015 Shauhrat S. Chopra (University of Pittsburgh)
6/2013- Alla G. Khadka (University of Pittsburgh)
1/2011-8/2012 Luke Gerdes (University of Pittsburgh)
3/2009-1/2011 Ben Nye (University of Pennsylvania)
6/2010- Nadazda Ivanova (Penn State University)
5/2007-12/2009 Tom Haase (University of Pittsburgh, GSPIA)
5/2008-3/2009 Aliaksandr Birukou (Trento University, Italy)
8/2007-12/2008 Alexei Sharpanskykh (Vrije Universiteit Amsterdam, Artificial Intelligence, Amsterdam)
5/2005-5/2006 Jerry Kane (Emory University, Goizueta Business School)
8/2006-8/2007 Hyung Sam Park (University of Pittsburgh, Sociology)
9/2006-6/2007 Mark Hoogendoorn (Vrije Universiteit, Artificial Intelligence, Amsterdam)
9/2004-12/2006 Charles Lebedz (Boston College, Business)
5/2005-5/2006 Tom Clancy (The University of Iowa College of Nursing)

K.M. Carley December 12, 2017

9/2002-1/2004 James Hazy (The George Washington University)
9/1998-5/2002 Casey Rowe (University of Pittsburgh, Accounting - Katz,)
11/2003 Kayo Fujimoto (University of Pittsburgh, Sociology)
10/1998-8/2001 Kari (Kelton) Chopra (RPI, Decision Sciences and Engineering Systems)
9/1999-8/2000 Sucheta Nadkarni (University of Kansas, Business)
4/1998-5/1999 Junalux Chalidabhongse (Stanford Univ., Engineering-Economic Systems and Operations Research)
11/1993-5/1996 Manju Ahuja (University of Pittsburgh, Joseph M. Katz Graduate School of Business)
8/1989-8/1991 Neda Saburi (American University, Washington D.C., Sociology)

CARNEGIE MELLON UNIVERSITY: PRE-PH.D. THESIS SUPERVISION

8/2017- David Beskow (ISR)
8/2017- Iain Cruickshank (ISR)
8/2017- Thomas Magelinski (ISR)
8/2016- Ramon Valla Cox (ISR)
10/2015- Sumeet Kumar (ECE/ISR)
8/2015- Binxuan Huang (ISR)
8/2015- Geoff Dobson (ISR/SEI)
6/2015-9/2015 Jonathan Lakey (Heinz)
9/2014-6/2016 Matthew Benigni (ISR)
9/2014-12/2015 Tanmay Sinha (LTI)
9/2011-12/2014 William Frankenstein (EPP)
9/2011-5/2013 Nelson Vega-Moya (ISR)
9/2011-8/2013 Dennis Chung (ISR)
1/2011-4/2014 Ghita Mezzour (ISR)
9/2010-12/2015 Wei Wei (ISR)
9/2010-5/2015 Kenneth Joseph (ISR)
9/2009-2/2015 Geoffrey Morgan (ISR)
9/2007-9/2013 Peter Landwehr (ISR)
9/2007-9/2012 Jamie Olson (ISR)

CARNEGIE MELLON UNIVERSITY: MASTERS THESES — ADVISOR

4/2017 Adam Tse (INI)
4/2012 Ang Li (INI)
9/2011-8/2012 Junier Oliva (ECE)
9/1998-5/2000 Marcelo Cataldo (INI)

CARNEGIE MELLON UNIVERSITY: MASTERS – NO THESIS

11/2016- John Villarraga (Chemical Engineering)
8/2016- Adam Tse (MITS)
8/2016- Shivam Gupta (MITS)
12/2015 Tanmay Sinha (LTI)
12/2013 Jesse St. Charles (ISR)
5/2012 Kenneth Joseph (ISR)
5/2012 Wei Wei (ISR)
5/2012 Michael Lanham (ISR)
9/2009-5/2011 Yi Chang (Greg) (LTI)
8/2010 Virginia Bedford (ISR)
5/2010 Peter Landwehr (ISR)
5/2009 Ian McCulloh (ISR)
12/2007 Jana Diesner (ISR)
5/2008 Terrill Frantz (ISR)
5/2008 Brian Hirshman (ISR)
5/2007 George Davis (ISR)
5/2006 Michael Ashworth (ISR)

K.M. Carley December 12, 2017

5/2006 Marcelo Cataldo (ISR)
5/2006 Il-Chul Moon (ISR)
5/2006 Patrick Wagstrom (EPP)

CARNEGIE MELLON UNIVERSITY: UNDERGRADUATE HONORS THESES — ADVISOR

11/2016- Joseph Gibli — Refugee Networks (topic) (Statistics)
6/1998-5/1999 Don Hoag — Organizational Change and Personnel Mobility (topic) (Heinz)
8/1993-5/1994 Seth Halvaksz — Organizations of Soar Agents (topic) (SDS)
6/1992-12/1992 Constantine Papageorgiou — Radar Soar (topic) (CS)
5/1990-5/1991 Nicholas Louitt — Software Engineering Teams (topic) (SDS)
5/1990-5/1991 Thomas Dale — Robots in Science Fiction (topic) (SDS)
9/1987-5/1988 Eric Gold — Diffusion and Organizational Structure (SDS)
9/1987-5/1988 Shep Bostin — CompuSpace - Expert System for Emergency Room Planning (SDS)
9/1986-5/1987 Joseph Stone — EXNET Expert system for entering societal description (SDS)
9/1986-5/1987 Frank Venturella — Cognitive Structure in Political Debates (SDS)
9/1985-5/1986 Mary Gaylord — Structure of programming and technical writing. — Unfinished (SDS)
9/1985-5/1986 Jennifer Kubitz — Transition to Andrew and education at CMU (topic) (SDS)
9/1985-5/1986 Joanne Power — Knowledge Acquisition and Social Interaction Patterns (SDS)

NON CMU: PRE-PH.D. THESIS SUPERVISION

8/2016-7/2017 Felicia Natali — LARC, Singapore
8/2015-7/2016 Larry Lin — LARC, Singapore
1/2001-3/2001 Jana Diesner — Germany
1/2000-8/2000 Luigi Proserpio — Italy
8/1994-12/1997 Harko Verhagen (The Netherlands) Equivalent of Masters Thesis.
9/1982-6/1983 Scott Sangster — Proposition 2 and 1/2. Harvard University (Advisor)
9/1983-6/1984 Pam Puzinas — Modeling the impact of voter registration on voting behavior. Harvard University (Reader)
9/1981-6/1982 Jeff Leit — The effects of TV viewing. Harvard University (Reader)

PH.D. ADVISORS

Harrison White (Co-Chair) Columbia University
Sheldon White (Co-Chair) Deceased
James Davis University of Chicago
John Padgett University of Chicago
Roger Brown Deceased

NON CMU COLLABORATORS (LAST 4 YEARS)

Nitin Agarwahl, University of Arkansas, Little Rock
Marge Benham-Hutchins, Univ. of Texas-Austin;
Mia Bloom, Georgia State University;
Mathew Brashears, University of South Carolina
Barbara Brewer, University of Arizona;
Michael Caldwell, Columbia;
Guido Cervone, PSU;
Louise Comfort, University of Pittsburgh;
Judith Effken, University of Arizona;
Terrill Frantz, Peking University;
Lee Freitag, Woods Hole;
Shih-Fen Cheng, Singapore Management University;
Kristine Gebbie, Columbia;
Viswanath Gunturi, University of Minnesota;
Brian R. Hirshman, UCSD;
Bin Hu, China;
Jeff Johnson, ECU;

Laurie A. Jones, self employed;
Alla Khadka, University of Pittsburgh;
Jonathan Keeling, Columbia;
Joel Levine, Dartmouth;
Larry Lin, Singapore Management University;
Huan Liu, ASU;
Richard Lobban, RIC;
Eric Malloy, Netanomics;
Lawrence Marshall, UCDC;
Elizabeth McGhee-Hassrick, Drexel;
Jacqueline Merrill, Columbia;
Matthias Meyer, Hamburg Univ of Technology;
Fred Morstatter, ASU;
Tymofiy Mylovanov, University of Pittsburgh
Tahoa H. Nazer, ASU;
Emile Okal, Northwestern;
Michael Prietula, Emory;

K.M. Carley December 12, 2017

Febrin, Indonesia;
Harkunti Rahayu, Indonesia;
Maxine Rockoff, Columbia;
Barbara Sheehan, Columbia University;
Shashi Shekhar, University of Minnesota;
P.D. Stetson, Columbia University;
Jonathan Storrick, Netanomics;
Tracy Van Holt, ECU;
Rosalind Wilson, Columbia;
Liang Wu, ASU;
Taieb Znati, University of Pittsburgh;
Daniel Zeng, University of Arizona;
Graduated and current graduate students.