

DR. KIMBERLY C. CLAFFY

Director, Center for Applied Internet Data Analysis (CAIDA)
San Diego Supercomputer Center, UC San Diego
kc@caida.org
<http://www.caida.org/~kc>

Education

University of California, San Diego	Computer Science and Engineering	Ph.D. (1991-1994)
University of California, San Diego	Computer Science and Engineering	M.S. (1991)
Stanford University	Symbolic Systems	B.S. (1989)

Dissertation topic: Internet traffic characterization: a methodology to support more accurate workload characterization in the face of increasing diversity in Internet traffic types and qualities

Professional Positions

2007-Present	Adjunct Professor, Computer Science & Engineering, UCSD
2007-Present	Research Scientist, SDSC, UCSD
2004-2007	Associate Adjunct Professor, Computer Science & Engineering, UCSD
1994-2007	Associate Research Scientist, SDSC/UCSD
1997-Present	Director and Principal Investigator (PI), CAIDA, SDSC/UCSD
1996	Instructor, Computer Science and Engineering, UCSD
1995-1998	Research Coordinator, National Laboratory & Applied Network Research (NLNR)
1991-1994	Student Fellow, SDSC/UCSD
1989-1994	Research Assistant, Computer Science and Engineering, UCSD
1991	Visiting Researcher, Sony Computer Science Laboratory, Tokyo, Japan
1989	Summer Research Intern, Monetary Affairs, Monetary Studies Section, Federal Reserve Board
1987	Summer Research Intern, Artificial Intelligence Principles Research, AT&T Bell Laboratories
1986-1987	Summer Research Intern, Advanced Sensor Systems, Harry Diamond Laboratories
1985	Summer Research Intern, Counter Measures, Harry Diamond Laboratories

Publications

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R. Padmanabhan, A. Dhamdhare, E. Aben, **k. claffy**, and N. Spring, "[Reasons Dynamic Addresses Change](#)", in Internet Measurement Conference (IMC), Nov 2016.

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V. Jacobson, J. Burke, L. Zhang, B. Zhang, **K. claffy**, D. Krioukov, C. Papadopoulos, T. Abdelzaher, L. Wang, E. Yeh, and P. Crowley, "[Named Data Networking \(NDN\) Project 2013 - 2014 Report](#)", Tech. rep., Named Data Networking (NDN), Nov 2014.

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Honors & Awards

- **2018- [π Person of the Year](#), San Diego Supercomputer Center, Mar/Apr 2018.**
- **2017- [Jonathan B. Postel Service Award](#), Internet Society, 2017.**
- **2016- "[10 Women in Networking/Communications That You Should Know](#)", N2Women, February 2016.**
- **2015- [IEEE Internet Award](#): "For seminal contributions to the field of Internet Measurement, including security and network data analysis, and for distinguished leadership in and service to the Internet community by providing open-access data and tools."**
- **2004- Invited Honoree at Telluride Tech Festival, August 2004.**
- **2002- Women in Technology Profile, Cisco Program, September 2002.**
- **2000- "Top 25 Women of the Web", San Francisco Women on the Web, January 2000.**

Contracts & Grants



CIRI: Quantifying Interdependencies of the Logical/Physical Internet topologies

(2017- 2022) Department of Homeland Security (DHS)

PANDA: Integrated Platform for Applied Network Data Analysis

(2017- 2022) National Science Foundation (NSF)

STARDUST: Sustainable Tools for Analysis and Research on Darknet Unsolicited Traffic

(2017- 2020) National Science Foundation (NSF)

ASSISTS: Advancing Scientific Study of Internet Security and Topological Stability

(2017- 2019) Department of Homeland Security (DHS)

AT&T Interconnection: Measuring Internet Interconnection Performance Metrics

(2015- 2019) AT&T

iLENS-NP: Internet Laboratory for Empirical Network Science: Next Phase

(2015-2019) National Science Foundation (NSF)

SISTER: Science of Internet Security: Technology and Experimental Research

(2016- 2018) Department of Homeland Security (DHS)

Spoofur: Software Systems for Surveying Spoofing Susceptibility

(2015-2018) Department of Homeland Security (DHS)

NeTS-Congestion : Mapping Interconnection in the Internet: Colocation, Connectivity and Congestion

(2014 - 2018) National Science Foundation (NSF)

IMPACT Supporting Research and Development of Security Technologies through Network and Security Data Collection (formerly PREDICT)

(2012- 2017) National Science Foundation (NSF)

NDN-NP : Named Data Networking Next Phase

(2014 - 2016) National Science Foundation (NSF)

Internet Mapping : Cartographic Capabilities for Critical Cyberinfrastructure

(2012 - 2015) Department of Homeland Security (DHS)

NeTS-IPv6 : Exploring the evolution of IPv6: topology, performance, and traffic

(2012 - 2015) National Science Foundation (NSF)

IODA : Detection and analysis of large-scale Internet infrastructure outages

(2012 - 2015) National Science Foundation (NSF)

NDN-FIA : Named Data Networking

(2010 - 2014) National Science Foundation (NSF)

CRI-Telescope : A Real-time Lens into Dark Address Space of the Internet

(2011 - 2014) National Science Foundation (NSF)

SDCI-DatCat : Metadata Management Software Tools to Support Cybersecurity Research and Development of Sustainable Cyberinfrastructure

(2011 - 2014) National Science Foundation (NSF)

PREDICT : Supporting Research and Development of Security Technologies through Network and Security Data Collection

(2012 - 2017) Department of Homeland Security (DHS)

Routing / NetSE : Discovering Hyperbolic Metric Spaces Hidden Beneath the Internet and Other Complex Networks

(2010 - 2014) National Science Foundation (NSF)

CRI-iLENS : Internet Laboratory for Empirical Network Science

(2010 - 2014) National Science Foundation (NSF)

Dynamic Graphs : Universal Laws of Structural Dynamics of Large Scale Graphs

(2012 - 2013) Defense Advanced Research Projects Agency (DARPA)

IRNC-SP : Sustainable data-handling and analysis methodologies for the IRNC networks

(2010 - 2013) National Science Foundation (NSF)

NetSE-Econ : The Economics of Transit and Peering Interconnections in the Internet

(2010 - 2013) National Science Foundation (NSF)

Cybersecurity : Leveraging the Science and Technology of Internet Mapping for Homeland Security

(2008 - 2012) Department of Homeland Security (DHS)

PREDICT : Supporting Research and Development of Security Technologies through Network and Security Data Collection

(2007 - 2012) Department of Homeland Security (DHS)

Cisco : Funding in support of Empirical Internet Research and Measurement

Cisco Corporation

CONMI : Toward Community-Oriented Network Measurement Infrastructure

(2006-2010) National Science Foundation (NSF)

DNS-ITR : Improving the Integrity of Domain Name System (DNS) Monitoring and Protection

(2004-2009) National Science Foundation (NSF)

NeTS-FIND : Greedy Routing on Hidden Metric Spaces as a Foundation of Scalable Routing Architectures without Topology Updates

(2007-2010) National Science Foundation (NSF)

NeTS-NR : Toward Mathematically Rigorous Next-Generation Routing Protocols for Realistic Network Topologies

(2004-2008) National Science Foundation (NSF)

Trends : Correlating Heterogeneous Measurement Data to Achieve System-Level Analysis of Internet Traffic Trends

(2002-2007) National Science Foundation (NSF)

NCS : Routing Analysis and Peering Policy for Enhancing Internet Performance and Security

(2001-2005) National Science Foundation (NSF)

BW-EST : Bandwidth Estimation

(2001-2004) Department of Energy (DOE)

NMS : Network Modeling and Simulation

(2001-2004) Defense Advanced Research Projects Agency (DARPA)

Connectivity Ranking of Autonomous Systems

(2003-2003) Cisco Corporation

NGI : Next-Generation Internet

(1997-2001) Defense Advanced Research Projects Agency (DARPA)

Collaborators and Other Affiliations:

a. Collaborators and Co-Editors

Abdelzaher, Tarek (University of Illinois at Urbana-Champaign); Aben, Emile (RIPE NCC); Afanasyev, Alexander (UC Los Angeles); Allman, Mark (The ICSI Center for Internet Research - ICIR); Almeroth, Kevin (UC Santa Barbara); Amman, Roman (Auckland University of Technology); Asaba, Toshiya (ISR, Recruit Co, Ltd.); Augé, Jordan (UPMC Paris U); Bagnulo, Marcelo (Simula Research Laboratory); Bajpai, Vaibhav (Technische Universität München); Baltrunas, Diugas (Simula Research Laboratory); Barman, Dhiman (UCR); Bauer, Steven (MIT); Benson, Karyn (UC San Diego); Berger, Arthur (MIT); Beverly, Robert (MIT); Boguñà, Marian (U e Barcelona, SE); Bohn, Roger (UC San Diego); Bradner, Scott (Harvard U); Brady, Arthur (Tufts University); Braun, Hans-Werner (UC San Diego); Brinkmeyer, William (Naval Postgraduate School); Broido, Andre (UC San Diego); Brownlee, Nevil (U Auckland, NZ); Burke, Jeffrey (UC Los Angeles); Bustamante, Fabian (Northwestern U); Cascarano, N. (Politecnico di Torino); Castro, Sebastian (NZRS); Cherukuru, Himalatha (Georgia Institute of Technology); Chiesa, Marco (Roma Tre University); Chinoy, Bilal (Applied Network Research); Cho, Kenjiro (Internet Initiative Japan); Chung, Fan (UC San Diego); Clark, David (MIT/CSAIL); Cox, Beverly A. (Lab for Communication Sciences); Crovella, Mark (Boston U); Crowley, Patrick (Washington University in St. Louis); Dainotti, Alberto (UC San Diego); Dhamdhere, Amogh (UC San Diego); Dimitropoulos, Xenofontas (Dept of Information Tech & Eng, Zurich); Donnet, Benoit (U Catholique de Louvain/FNRS); Donohoe, Jim (UC San Diego); Dovrolis, Constantinos (Georgia Institute of Technology); Duan, Charles (University of Colorado Law School); Dusi, Maurizio (U degli Studi di Brescia, IT); Edens, Glenn (PARC); Elmokashfi, Ahmed (Simula Research Laboratory); Estrin, Deborah (UC Los Angeles); Fall, Kevin (Intel Research Berkeley); Faloutsos, Michalis (UCR); Fenner, Bill (Xerox PARC); Finamore, Alessandro (Politecnico di Torino); Fomenkov, Marina (UC San Diego); Friedman, Timur (UPMC Paris U); Gao, Ruomei (Georgia Institute of Technology); Giotsas, Vasileios (UC San Diego/TU Berlin); Glatz, Eduard (ETH Zurich); Goel, Utkarsh (Montana State University); Gringoli, Francesco (U di Brescia); Gross, Andrew (SDSC/UC San Diego); Haga, Peter (Eotvos Lorand U); Halderman, J Alex (University of Michigan); Hoffman, Eric (Ipsilon); Huffaker, Bradley (UC San Diego); Huntoon, Gwendolyn (Pittsburgh Supercomputer Center); Huston, Geoff (APNIC); Huz, Gokay (Naval Postgraduate School); Hyun, Young (UC San Diego); Jacobson, Van (UC Los Angeles); John, Wolfgang (Chalmers U of Tech); Jung, Jaeyeon (KAIST); Kallitsis, Michalis (Merit Network, Inc.); Karagiannis, Thomas (Microsoft Research); Katz-Bassett, Ethan (U of WA); Kenneally, Erin (UC San Diego); Keys, Ken (UC San Diego); Kim, Hyunchul (Seoul National University); King, Alistair (UC San Diego); King, Ryan (UC San Diego); Koga, Ryan (UC San Diego); Kohno, Todoyoshi (UC San Diego); Krioukov, Dmitri (UC San Diego); Kvalbein, Amund (Simula Research Laboratory); Lagache, Edouard (UC San Diego); Larson, Natalie (UC San Diego); Le, Andrew (Mintybit); Lee, KiYoung (UCR); Lee, Tony (UC San Diego); Lehr, William (MIT/CSAIL); Leinen, Simon (SWITCH); Levchenko, Kirill (UC San Diego); Liu, Ziqian (Beijing Jiaotong U); Livadariu, Ioana (Simula Research Laboratory); Lodhi, Aemen (Georgia Institute of Technology); Luckie, Matthew (U Waikato); Lutu, Andra (Simula Research Laboratory); Mahadevan, Priya (HP Labs); Mandalari, Anna Maria (University Carlos III of Madrid); Massey, Dan (Colorado State University); Mathis, Matt (Pittsburgh Supercomputer Center); McCreary, Sean (UC San Diego); McRobb, Daniel (UC San Diego); Meinrath, Sasha (New America Foundation); Miller, Greg (MCI/vBNS); Mitchell, Don (NSF); Mok, Ricky K. P. (UC San Diego); Monk, Tracie (UC San Diego); Moore, David (UC San Diego); Mosley, Lorenza (Naval Postgraduate School); Munzner, Tamara (Stanford University); Murai, Jun (Keio University); Murray, Margaret (Texas Advanced Computing Center); Murrell, David (U of Waikato); Nakamura, Osamu (University of Tokyo); Nemeth, Evi (University of Colorado at Boulder/UC San Diego); Ohm, Paul (University of Colorado at Boulder); Ott, Theresa (UC San Diego); Padmanabhan, Ramakrishna (University of Maryland, College Park); Papadopoulos, Christos (Colorado State University); Papale, Ferdinando (University of Napoli Federico II); Paxson, Vern (UC Berkeley/ICSI); Periakaruppan, Ram (UC San Diego); Pescapè, Antonio (University of Napoli Federico II); Plummer, Daniel (UC San Diego); Polterock, Josh (UC San Diego); Polyzos, George (UC San Diego); Prasad, Ravi (Georgia Institute of

Technology); Rajvaidya, Prashant (UC Santa Barbara); Reddyvari Raja, Vamseedhar (Texas A&M University); Richter, Philipp (TU Berlin); Riley, George (Georgia Institute of Technology); Risso, Fulvio (Politecnico di Torino); Russo, Michele (University of Napoli Federico II); Salgarelli, Luca (U di Brescia); Scicchitano, Alessandra (SWITCH); Shakkottai, Srinivas (U Illinois Urbana-Champaign); Shang, Hao (Google); Shannon, Colleen (UC San Diego); Shavitt, Yuval (Tel Aviv U); Shilton, Katie (University of Maryland, College Park); Shiram, Alok (UC San Diego); Smaragdakis, Georgios (MIT/CSAIL/TU Berlin); Snoeren, Alex (UC San Diego); Spring, Neil (U of Maryland); Squarcella, Claudio (Roma Tre University); Sundaresan, Srikanth (Princeton University); Tesch, Michael (UC San Diego); Thompson, Kevin (MCI Worldcom); Thornton, James (PARC); Tsudik, Gene (UC Irvine); Uzun, Ersin (PARC); Vahdat, Amin (UC San Diego); van der Pol, Ronald (NLnet Labs); Verkaik, Patrick (UC San Diego); Vespigniani, Allesandro (Indiana U); Vest, Thomas (Consultant); Vixie, Paul (ISC); Vázquez, Félix Iglesias (Vienna University of Technology); Wang, Lan (University of Memphis); Wessels, Duane (Verisign); Willinger, Walter (AT&T Research); Wittie, Mike (Montana State University); Wolff, Stephen (UC San Diego); Wu, Tiange (UC San Diego); Yeh, Edmund (Northeastern University); Yu, Yingdi (UC Los Angeles); Zhang, Beichuan (University of Arizona); Zhang, Lixia (UC Los Angeles); Zhang, Min (Beijing Jiaotong U); Zhou, Shi (University College London); Zseby, Tanja (Vienna University of Technology)

b. *Graduate and Post-doctoral Advisors:*

Polyzos, George (UCSD) and Braun, Hans-Werner (UCSD)

c. *Thesis Advisor and Postgraduate-Scholar Sponsor:*

Barman, Dhiman (UCR); Benson, Karyn (UC San Diego); Castro Avila, Sebastian (NZ Registry Services); Dainotti, Alberto (U degli Studi di Napoli Federico II, IT); Dhamdhere, Amogh (Georgia Institute of Technology); Dimitripoulos, Xenofontas (Georgia Institute of Technology); Donnet, Benoit (U Pierre & Marie Curie, FR); Dusi, Maurizio (U of Brescia, IT); Este, Alice (U of Brescia); Gilon, Julien (U of Liège, Belgium); Giotsas, Vasileios (University College London); Gjoka, Minas (UCI); He, Yihua (UCR); Jamakovic, Almerima (Delft U of Technology, NL); Jia, Siyuan (Northeastern University, CN); John, Wolfgang (Chalmers U of Technology, SE); Kavak, Egemen (U of PA); Kim, Hyunchul (Seoul National U, KR); Kohno, Tadayoshi (U of WA); Kumar, Ritesh (U of NC-Chapel Hill); Larson, Natalie (UC San Diego); Liu, Raymond (UCLA); Liu, Ziqian (Beijing Jiaotong U); Lodhi, Aemen (Georgia Institute of Technology); Lutu, Andra (U of Carlos III, Madrid); Mahadevan, Priya (AT&T Labs); Orsini, Chiara (University of Pisa, IT); Papadopoulos, Fragkiskos (U of Cyprus); Shakkottai, Srinivas (U of Illinois Urbana-Champaign); Shiram, Alok (U of NC-Chapel Hill); Squarcella, Claudio (Roma Tre U, IT); Terrell, Jeff (U of NC-Chapel Hill); Walha, Bhavjit (UC San Diego); Zhang, Min (Beijing Jiaotong U); Zseby, Tanja (Technical U of Berlin)