Kenneth A. Zeger

- Professor and consultant -

Personal Data

Email: zeger@ZundaLLC.com
Web: http://ZundaLLC.com (company)
      http://zeger.us   (university)
Citizenship: USA

Academic Degrees

Ph.D (ECE):	University of California, Santa Barbara (1990)
M.A. (Mathematics):	University of California, Santa Barbara (1989)
S.M. (EECS):	Massachusetts Institute of Technology (1984)
S.B. (EECS):	Massachusetts Institute of Technology (1984)

Faculty Positions

University of California, San Diego - Professor of Electrical Engineering (1998-present)
- Associate Professor of Electrical Engineering (1996-1998)

University of Illinois, Urbana-Champaign - Associate Professor of Electrical Engineering (1995-1996)
- Assistant Professor of Electrical Engineering (1992-1995)

University of Hawaii - Assistant Professor of Electrical Engineering (1990-1992)

Honors and Awards

- IEEE Fellow (2000)
- NSF Presidential Young Investigator Award (1991)
- United States Mathematical Olympiad (1980)

Consulting Experience

Clients:

- Automatic Data Processing Co.
- Hewlett-Packard Laboratories
- U.S. Department of Defense
- MITRE Co.
- Nokia Telecommunications Inc.
- Prominent Communications Inc. (Chair of Technical Advisory Board)
- ViaSat Inc.
- Xerox Co. Palo Alto Research Center
- Zeger-Abrams Inc.
- Zunda LLC (President)
- Expert Witness in numerous patent infringement and trade secret litigations.

Topics:

- Image, fax, video, vision, television coding.
- Speech coding and recognition, audio coding, telephony.
- Electronic hardware devices: cell phones, printers, cameras, TV, computers, dongles, etc.
- Protocols, networks, Internet, security, GPS.
- Digital and wireless communications.
- Error correcting codes.
- Communication protocols.
- Software: C, C++, C#, BASIC, Lisp, Fortran, Cobol, Algol, Pascal, Assembler, TMS320, Java, DSP, Verilog, HTML, JavaScript, Perl, Visual Basic, VHDL.
- National security topics.

CV of K. Zeger

Professional Activities

- Board of Governors of IEEE Information Theory Society (1998-2000, 2005-2007, and 2008-2010)
- Associate Editor At-Large of *IEEE Transactions on Information Theory* (1995-1998).
- Steering Committee member of Fourth Workshop on Network Coding, Theory, and Applications (2007).
- Co-organizer of: Third Workshop on Network Coding, Theory, and Applications, San Diego (2007).
- Co-organizer of NSF Workshop on Joint Source-Channel Coding, San Diego, California. (1999)
- Co-organizer of IEEE Information Theory Workshop, San Diego, California. (1998)
- Co-organizer of Allerton Conference on Communication, Control, and Computing (1995)
- Co-organizer of IEEE Communication Theory Workshop, Ojai, California. (1990)
- International Advisory Committee of International Symposium on Spread Spectrum Techniques and Applications (ISSTA) (Taichung, Taiwan 2010)
- Program Committee of Information Theory Workshop (ITW) (Jerusalem, Israel, 2015)
- Program Committee member of International Symposium on Network Coding (NetCod) (Sydney, Australia, 2015)
- Program Committee member of International Symposium on Network Coding (NetCod) (Beijing, China, 2011)
- Program Committee member of Workshop on Network Coding, Theory, and Applications (NetCod) (Lausanne, Switzerland, 2009)
- Program Committee member of Workshop on Network Coding, Theory, and Applications (NetCod) (Hong Kong, 2008)
- Program Committee member of Workshop on Network Coding, Theory, and Applications (NetCod) (Boston, 2006)
- Program Committee member of International Symposium on Information Theory (ISIT) (Toronto, Canada 2008)
- Program Committee member of International Symposium on Information Theory (ISIT) (Adelaide, Australia 2005)
- Program Committee member of International Conference on Image Processing (ICIP) (Atlanta, Georgia, September 2006).
- Program Committee member of International Conference on Image Processing (ICIP) (Genova, Italy, 2005)
- Program Committee member of International Conference on Image Processing (ICIP) (Singapore 2004)
- Program Committee member of International Conference on Image Processing (ICIP) (Barcelona, Spain, 2003)
- Program Committee member of International Symposium on Information Theory and its Applications (Monterey, California 2016)
- Program Committee member of International Symposium on Information Theory and its Applications (Melbourne, Australia 2014)

CV of K. Zeger

- Program Committee member of International Symposium on Information Theory and its Applications (Honolulu, Hawaii 2012)
- Program Committee member of International Symposium on Information Theory and its Applications (Taichung, Taiwan 2010)
- Program Committee member of International Symposium on Information Theory and its Applications (Auckland, New Zealand 2008)
- Program Committee member of International Symposium on Information Theory and its Applications (Soeul, Korea 2006)
- Program Committee member of International Symposium on Information Theory and its Applications (Xian, China, 2002)
- Program Committee member of International Symposium on Information Theory and its Applications (Hawaii, 2000)
- Program Committee member of Data Compression Conference (Salt Lake City, Utah, 1996-2007)
- Plenary speaker at Nottingham Trent Univ. Workshop on Prob., Theory, & Appl. (England, 1998)
- Plenary speaker at IEEE Communication Theory Workshop (Destin, Florida, 1996)
- IEEE Communication Theory Technical Committee
- IEEE Signal Processing and Communications Electronics Technical Committee
- Started U.S.-Hungary Research Exchange Program
- MIT Educational Council (1985-present)

Research Interests

Source/Channel Coding, Image/Speech Compression, Networking, Statistical Learning and Pattern Matching, Information Theory, Graph and Complexity Theory, Combinatorial Monoid & Group Theory

Teaching Experience (g = grad, u = undergrad)

Calculus (u)
Probability (u)
Signals and Systems (u)
Circuits and Systems (u)
Information Theory (g)
Source Coding (g)
Random Processes (g)

DOCKET ALARM

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts

Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research

With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips

Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

fastcase
Smarter legal research.