

Kenneth A. Zeger

- Professor and consultant -

Personal Data

Email: zeger@ucsd.edu
Web: <http://KenZeger.com> (university)
<http://ZundaLLC.com> (company)
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)

Intellectual Ventures II LLC
Exhibit 2002
ERICSSON v. IV II
IPR2014-01195

Consulting Experience

Clients:

- Answers, Inc.
- Automatic Data Processing Co.
- Hewlett-Packard Laboratories
- Institute for Defense Analyses
- Mathematics Consulting, Inc.
- 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.
- Department of Defense topics.

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, Calif. (1999)
- Co-organizer of IEEE Information Theory Workshop, San Diego, Calif. (1998)
- Co-organizer of Allerton Conference on Communication, Control, and Computing (1995)
- Co-organizer of IEEE Communication Theory Workshop, Ojai, Calif. (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 Workshop on Network Coding (NetCod) (Beijing, China, 2011)
- Program Committee member of Workshop on Network Coding (NetCod) (Lausanne, Switzerland, 2009)
- Program Committee member of Workshop on Network Coding (NetCod) (Hong Kong, 2008)
- Program Committee member of Workshop on Network Coding (NetCod) (Boston, 2006)
- Program Committee member of Int. Symp. on Infor. Theory (ISIT) (Toronto, Canada 2008)
- Program Committee member of Int. Symp. on Infor. Theory (ISIT) (Adelaide, Australia 2005)
- Program Committee member of Int. Conf. on Image Processing (ICIP) (Atlanta, Georgia, September 2006).
- Program Committee member of Int. Conf. on Image Processing (ICIP) (Genova, Italy, 2005)
- Program Committee member of Int. Conf. on Image Processing (ICIP) (Singapore 2004)
- Program Committee member of Int. Conf. on Image Processing (ICIP) (Barcelona, Spain, 2003)
- Program Committee member of Int. Symp. on Infor. Theory and its Applic. (Melbourne, Australia 2014)
- Program Committee member of Int. Symp. on Infor. Theory and its Applic. (Honolulu, Hawaii 2012)
- Program Committee member of Int. Symp. on Infor. Theory and its Applic. (Taichung, Taiwan 2010)
- Program Committee member of Int. Symp. on Infor. Theory and its Applic. (Auckland, New Zealand 2008)
- Program Committee member of Int. Symp. on Infor. Theory and its Applic. (Soeul, Korea 2006)
- Program Committee member of Int. Symp. on Infor. Theory and its Applic. (Xian, China, 2002)
- Program Committee member of Int. Symp. on Infor. Theory and its Applic. (Hawaii, 2000)
- Program Committee member of Data Compression Conf. (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)

July 28, 2014

- 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)

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