



**Ken Christensen** is Professor and Associate Chair of Undergraduate Affairs in the Department of Computer Science and Engineering at the University of South Florida. His research interests are at the intersection of networks and energy in the area of energy-efficient computing and communications systems, and application of communications to improving the storage, distribution, and use of energy in small grids. In the past 20 years, Ken has made contributions to Energy Efficient Ethernet (EEE) and proxying for network connectivity. This work has contributed to IEEE and Ecma standards, and to EPA Energy Star specifications. This research has been funded by NSF, Cisco, Google, and KETI. Ken has graduated eight PhD students and 25 MS students. Six of his PhD graduates have become tenured faculty in US and Latin American universities.

Ken is one of the founders, and currently President, of *The Pledge of the Computing Professional* – an organization founded in 2011 to promote and recognize the ethical and moral behavior and responsibilities of graduates of computing-related degree programs. There are 73 US institutions that are members of the Pledge. Ken hosted the IEEE Local Computer Networks (LCN) conference in the Tampa Bay area in 2000, 2001, 2002, 2004, 2012, and 2015. Ken was the editor-in-chief of the *International Journal of Network Management* from 2007 to 2011. He was also a subject area editor for *IEEE IT Professional* magazine and an editorial board member of *Telecommunication Systems* and *Computer Communications*. In 2004 he was a visitor in the Department of Communication Systems at Lund University in Sweden. In 1998 and 1999 he was a NASA Summer Faculty Fellow at KSC.

Ken coordinates the Department's industry partners Computing Partners Program (CPP) with six member companies – Amgen, Amazon Pays, CAE, Johnson & Johnson, JP Morgan Chase, Nielsen, and Raymond James. Ken teaches the Department's industry-based capstone design course. Companies participating in the Department capstone have included CAE, Harris, Nielsen, Raytheon, Raymond-James, and many others.

Ken received the PhD in Electrical and Computer Engineering from North Carolina State University in 1991, MS from North Carolina State University in 1983, and BS from the University of Florida in 1981. From 1983 to 1995 he was employed at IBM RTP. In 2022 Ken was awarded the USF CSE Broadening Participation in Computing Award. In 2018 he was invited to be a member of the USF College of Engineering Academy of Distinguished Engineering Educators. In 2017 he was awarded a USF Kosove Distinguished Undergraduate Teaching and Service Award. In 2009 he was awarded a USF Excellence in Innovation Award and inducted into the Academy of Inventors. In 1999 he was awarded a CAREER grant from the National Science Foundation. He was selected for a 1998 State of Florida Teaching Incentive Program (TIP) award and a University of South Florida 1996/1997 Outstanding Undergraduate Teaching Award. He has over 100 journal and conference publications and 13 U.S. patents. Ken is an ABET EAC program evaluator. Ken is a licensed Professional Engineer in the state of Florida, a Senior Member of IEEE, and a member of ACM and ASEE.

#### **Selected publications:**

- S. Lunn, M. Ross, Z. Hazari, M. Weiss, M. Georgiopoulos, and K. Christensen, "How Do Educational Experiences Predict Computing Identity?" *ACM Transactions on Computing Education*, Vol. 22, No. 2, pp. 1-28, June 2022.
- S. Malla and K. Christensen, "The Effect of Server Energy Proportionality on Data Center Power Oversubscription," *Future Generation Computer Systems*, Vol. 104, pp. 119-130, January 2020.
- B. Nordman and K. Christensen, "DC Local Power Distribution: Technology, Deployment, and Pathways to Success," *IEEE Electrification Magazine*, Vol. 4, No. 2, pp. 29-36, June 2016.
- K. Christensen, P. Reviriego, B. Nordman, M. Bennett, M. Mostowfi, and J. A. Maestro, "IEEE 802.3az: The Road to Energy Efficient Ethernet," *IEEE Communications*, Vol. 48, No. 11, pp. 50-56, November 2010.