

Randy Katz



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Biography

Randy Howard Katz received his undergraduate degree from Cornell University, and his M.S. and Ph.D. degrees from the University of California, Berkeley. He joined the Berkeley faculty in 1983, where since 1996 he has been the United Microelectronics Corporation Distinguished Professor in Electrical Engineering and Computer Science. He is a Fellow of the ACM and the IEEE, and a member of the National Academy of Engineering and the American Academy of Arts and Sciences. In 2007, he received an honorary doctorate from the University of Helsinki. He has published over 250 refereed technical papers, book chapters, and books. His textbook, *Contemporary Logic Design*, has sold over 100,000 copies in two editions, and has been used at over 200 colleges and universities. He has supervised 49 M.S. theses and 39 Ph.D. dissertations (including one ACM Dissertation Award winner and ten women). His recognitions include thirteen best paper awards (including one "test of time" paper award and one selected for a 50 year retrospective on *IEEE Communications* publications), three best presentation awards, the Outstanding Alumni Award of the Computer Science Division, the CRA Outstanding Service Award, the Berkeley Distinguished Teaching Award, the CS Division's Diane S. McEntyre Award for Excellence in Teaching, the Air Force Exceptional Civilian Service Decoration, the IEEE Reynolds Johnson Information Storage Award, the ASEE Frederic E. Terman Award, the IEEE James H. Mulligan Jr. Education Medal, the ACM Karl V. Karlstrom Outstanding Educator Award, and the ACM Sigmobility Outstanding Contributor Award. In the late 1980s, with colleagues at Berkeley, he developed Redundant Arrays of Inexpensive Disks (RAID), a \$15 billion per year industry sector. While on leave for government service in 1993-1994, he established whitehouse.gov and connected the White House to the Internet. His BARWAN Project of the mid-1990s introduced vertical handoffs and efficient transport protocols for mobile wireless networks. His current research interests are the architecture of Internet Datacenters, particularly frameworks for datacenter-scale instrumentation and resource management. With David Culler and Seth Sanders, he has started a new research project on Smart Energy Networks, called LoCal. Prior research interests have included: database management, VLSI CAD, high performance multiprocessor (Snoop cache coherency protocols) and storage (RAID)

architectures, transport (Snoop TCP) and mobility protocols spanning heterogeneous wireless networks, and converged data and telephony network and service architectures.



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