

Biographical Sketch JAMES F. KUROSE

James F. Kurose is Assistant Director of the National Science Foundation for Computer and Information Science and Engineering (CISE). Prior to joining NSF, he was a Distinguished Professor in the School of Computer Science at the University of Massachusetts Amherst, where he led research projects on computer network protocols and architecture, network measurement, sensor networks, multimedia communication, and modeling and performance evaluation. Dr. Kurose also currently serves as co-chair of the Networking and Information Technology Research and Development (NITRD) Subcommittee of the National Science and Technology Council (NSTC) Committee on Technology, providing overall coordination for the IT R&D activities of 18 federal government agencies and offices.

At NSF, Dr. Kurose guides the CISE directorate in its mission to advance the Nation's leadership in computer and information science and engineering through its support for fundamental and transformative research, as well as the development and use of cyberinfrastructure across the science and engineering enterprise. These activities are critical to ensuring economic competitiveness and achieving national priorities. With a budget of over \$900 million in FY 2017, CISE supports ambitious long-term research and innovation, advanced cyberinfrastructure to enable and accelerate discovery and innovation across all disciplines, broad interdisciplinary collaborations, and education and training of the next generation of computer scientists and information technology professionals with skills essential to success in the increasingly competitive, global market.

Over the last three decades at the University of Massachusetts Amherst, Dr. Kurose served in a number of administrative roles including chair of the Department of Computer Science, interim dean and executive associate dean of the College of Natural Sciences, and senior faculty advisor to the Vice Chancellor for Research and Engagement. He has been a visiting scientist at IBM Research, INRIA, Institut EURECOM, the University of Paris, the Laboratory for Information, Network and Communication Sciences, and Technicolor Research Labs. He helped found and lead the Commonwealth Information Technology Initiative and the Massachusetts Green High Performance Computing Center.

He has served as editor-in-chief of the Institute of Electrical and Electronics Engineers (IEEE) *Transactions on Communications* and was the founding editor-in-chief of the IEEE/Association for Computing Machinery (ACM) *Transactions on Networking*. With Keith Ross, he coauthored the textbook, *Computer Networking: A Top-Down Approach*, which is in its seventh edition.

Dr. Kurose has received recognition for his research, including the IEEE International Conference on Computer Communications (INFOCOM) Achievement Award and the ACM Special Interest Group on Data Communications (SIGCOMM) Lifetime Achievement and Test of Time awards. He has also been recognized for his educational activities, receiving the IEEE/CS Taylor Booth Education medal and the Massachusetts Telecommunication Council Workforce Development Leader of the Year award.

Dr. Kurose has served on a variety of advisory boards, including on the NSF/CISE Advisory Committee and the Board of Directors for the Computing Research Association.

Dr. Kurose holds a Bachelor of Arts degree in physics from Wesleyan University, and a Master of Science and a Ph.D. in computer science from Columbia University. He is a fellow of the IEEE and ACM.