

Satellite Access to the Internet

Dr. Norman Abramson, NetEnterprise

Abstract

Cost effective satellite access to the Internet using small (less than 1 meter diameter) earth stations requires an understanding of the nature of Internet traffic to the end user. In typical applications more than 90% of the total traffic flows to the user. Paradoxically more than 90% of the system cost can be attributed to the 10% of the traffic flowing from the user. In this talk we discuss the general consequences of this disparity in present day satellite networks and the implications of this disparity in the effective design of future networks.

Biography of Keynote Speaker

Dr. Norman Abramson (norm@post.harvard.edu) is a founder and first CEO of ALOHA Networks in San Francisco. From 1968 to 1996 he was a Professor of Electrical Engineering and a Professor of Information and Computer Sciences at the University of Hawaii. He has also been a member of the faculty at Stanford, Berkeley, Harvard and MIT. At the University of Hawaii he served as Chair of the Information and Computer Sciences department and as Director of the ALOHA System research project. He directed the effort at the University of Hawaii which led to the construction and operation of the ALOHANET. He has served as Consulting Expert in Communication Systems, Data Networks and Satellite Networks for the ITU (Geneva), UNESCO (Paris) and the UNDP (Jakarta). He is the recipient of several international awards including the 1995 IEEE Koji Kobayashi Computers and Communications Award and the 2000 Technology Award from the Eduard Rhein Foundation.