

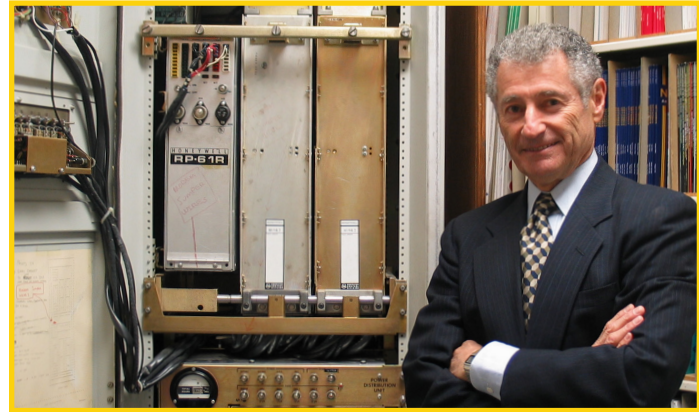
## Computer Science Department The Jon Postel Distinguished Lecturer Series

### *The Early Internet and Beyond*

**Leonard Kleinrock, Ph.D.**

Tuesday, October 29, 2024, 4:15 - 6 p.m.

Mong Auditorium, Engineering VI



### Abstract

Fifty five years ago tonight, a team of UCLA students led by Prof. Leonard Kleinrock successfully sent the first message over the ARPANET from 3420 Boelter Hall to the Stanford Research Institute.

This presentation traces both the early history of the science and infrastructure that emerged as the ARPANET, as well as the trajectory of development it set for the even broader construct that we now call the internet. The factors that motivated the appearance of these data networks along with the early technology that provided their underpinning will be described.

Prof. Kleinrock will share insights on i) early research in packet switching and dynamic resource allocation, ii) the institutional environment created with ARPA in the post-war U.S. and iii) the internet trajectory from an engineering research experiment to the commercial internet of today.

### Biography

Leonard Kleinrock is a Distinguished Professor of Computer Science at UCLA. He is considered a pioneer of the internet, having developed the mathematical theory of packet networks, the technology that launched the internet, as an MIT graduate student in 1962. His laboratory at UCLA became the first node of the internet in September 1969 from which he directed the transmission of the first internet message on Oct. 29, 1969.

Kleinrock received the 2007 National Medal of Science, the highest honor for achievement in science bestowed by the President of the United States. He received his Ph.D. from MIT in 1963 and has since served as a professor of the Computer Science Department at UCLA and was department chair from 1991-1995. He received a BEE degree from CCNY in 1957 and an M.S. degree from MIT in 1959. He has published over 250 papers and authored six books in areas including packet switching networks, packet radio networks, local area networks, broadband networks, nomadic computing, performance evaluation, intelligent agents, peer-to-peer networks and advanced network design. He has supervised the research for over 50 Ph.D. students.

**Lecture will be preceded by a reception.  
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