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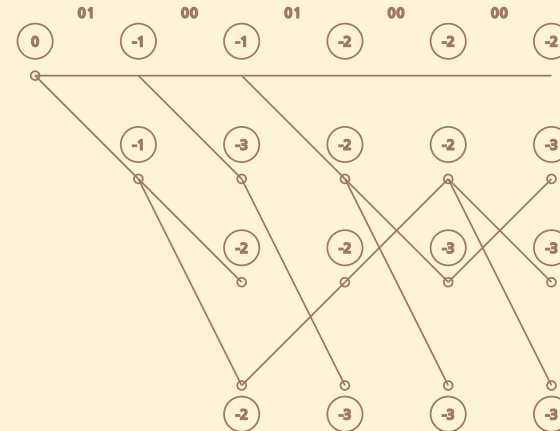
**USC Viterbi**  
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**Department of Electrical Engineering**  
**Viterbi School of Engineering**  
 University of Southern California

**Andrew J. Viterbi**

Distinguished Lecture in Communication



Univeristy of Southern California Viterbi School of Engineering  
**Andrew J. Viterbi Distinguished Lecture in Communication**

The Viterbi Lecture was created as the USC Viterbi School of Engineering's premier academic distinction in information technology and digital communications, an area of research in which the School of Engineering is a national leader. Each year, an awardee who has made fundamental contributions of profound impact in communication will present the Viterbi Lecture.



Toby Berger was born in New York on September 4, 1940. He received the B.E. degree in electrical engineering from Yale University in 1962, and the M.S. and Ph.D. degrees in applied mathematics from Harvard University in 1964 and 1966, respectively.

From 1962 to 1968 he was a Senior Scientist at Raytheon Company, Wayland, MA, specializing in communication theory, information theory, and coherent signal processing. From 1968 through 2005 he was a faculty member at Cornell University where he held the position of Irwin and Joan Jacobs Professor of Engineering. In 2006 he became a professor in the ECE Department of the University of Virginia, Charlottesville, VA.

Professor Berger's research interests include information theory, random fields, communication networks, wireless communications, video compression, voice and signature compression and verification, neuroinformation theory, quantum information theory, and coherent signal processing. He is the author of Rate Distortion Theory: A Mathematical Basis for Data Compression and a co-author of Digital Compression for Multimedia: Principles and Standards, and Information Measures for Discrete Random Fields. Berger has served as editor-in-chief of the IEEE Transactions on Information Theory and as president of the IEEE Information Theory Group. He has been a Fellow of the Guggenheim Foundation, the Japan Society for Promotion of Science, the Ministry of Education of the People's Republic of China and the Fulbright Foundation. In 1982 he received the Frederick E. Terman Award of the American Society for Engineering Education, he received the 2002 Shannon Award from the IEEE Information Theory Society and has been designated the recipient of the IEEE 2006 Leon K. Kirchmayer Graduate Teaching Award. Berger is a Fellow and life member of the IEEE, a life member of Tau Beta Pi, and an avid blues harmonica player.

Celebrating 100 years of Engineering

## The Department of Electrical Engineering

invites you to attend the

### **Andrew J. Viterbi Distinguished Lecture in Communication**

Lecture by

**Toby Berger, University of Virginia**

presenting

### **Information Exchange Among Neurons in Sensory Cortex**

**Thursday, March 9, 2006**

University of Southern California

Leonard Davis Auditorium

Reception 5:00 pm Lecture 6:00 pm