IEEE Systems Council Chapter presents IEEE Distinguished Lecture Series:

Dr. Bernard Sklar

Date: Th, Dec 10, 2009
Time: 5:00 pm -7:00PM
VEC 325, CSULB

Essential Concept About Digital Communications (Part I)

Abstract: Essential concepts, such as fundamental operations in Transmitter and receiver in a digital communication system is presented via building blocks. Specifically, using equalization to reduce the degradation due to inter-symbol interference (ISI) at the receiver is illustrated. Detection of binary signals in Gaussian noise, match filter, convolution in linear systems, bit error rate, types of error performance degradation, time-bandwidth product and pulse shaping, bandwidth-limited, and power-limited systems are presented.

About speaker: Dr. Bernard Sklar has over 60 years of technical experience in industry and academia. He helped develop the MILSTAR satellite system, and was the principal architect for EHF Satellite Data Link Standards at the Aerospace Corporation. Currently, he is the Director of Advanced Systems at Communications Engineering Services, a consulting company he founded in 1984. He has taught engineering courses at UCLA and the University of Southern California, and has presented numerous training programs throughout the world. Dr. Sklar has published and presented scores of technical papers. He is the author of the book, Digital Communications: Fundamentals and Applications, 2nd Edition, Prentice-Hall, 2001. He holds a Ph.D. degree in engineering from UCLA.

For more information, please contact: Prof. Henry Yeh at henry.yeh@csulb.edu

*This is a joint invitation between CSULB IEEE Student Branch and IEEE Systems Council Chapter.