NANYANG TECHNOLOGICAL UNIVERSITY

School of Physical & Mathematical Sciences

Organized by:
Division of Mathematical Sciences

"Improving the Vision of Magic Eyes"

by

Professor Alfred M. Bruckstein

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Abstract:

Autostereograms are single images that convey depth information in the same manner as a stereo pair. Given a depth profile and autostereogram is generated by repeating with distortions a basic vertical strip of texture. We shall discuss various properties of such basic patterns that lead to better autostereograms. In particular, we shall show that 1/f patterns are optimal for easy depth perception.

Biography:

Professor Alfred M. Bruckstein received the B.Sc.(honors) and the M.Sc. in Electrical Engineering from the Technion – Israel Institute of Technology, and the Ph.D. in Electrical Engineering from Stanford University, in 1977, 1980 and 1984, respectively. Since 1985, he has been a faculty member at the Technion – Israel Institute of Technology, where he is currently holding the Ollendorff Technion Chair in Science. From Oct 2002 till Jan 2006, he was the Dean of the Technion Graduate School and today, he is the Head of Technion's Excellence Program. Prof Bruckstein was on the editorial boards of the Pattern Recognition Journal, Imaging Systems and Technology Journal, and the Circuits Systems and Signal Processing Journal. He served as a member of program committees of over 40 conferences and workshops. He is a member of SIAM, AMS and MAA.

ALL ARE WELCOME!

(FREE ADMISSION)

Date : 3 September 2007 (Mon)

Time : 5.30pm – 6.30pm

Venue : NTU LT19 (N2-B2a-1)

For registration, please email to Ms Goh Guat Tin at gtgoh@ntu.edu.sg (Tel. (65) 6790 3717) specifying title of the talk, your name, affiliation/school, email and contact number.