The Mathematics of Multi-A(ge)nt Interactions

Professor Alfred M. Bruckstein
Nanyang Technological University and
Technion – Israel Institute of Technology

Date : 8 September 2011 (Thursday)
Time : 4.30pm – 5.30pm
Venue: SPMS-LT3, SPMS-03-02
School of Physical and Mathematical Sciences

Abstract
This talk will survey mathematical methods used for addressing the analysis of emergent collective behaviors in swarms comprised of many simple, mobile, myopic (i.e. locally sensing), mute (i.e. implicitly communicating) and senile (i.e. memoryless) ant-like agents.

Speaker 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 currently holds the Ollendorff Technion Chair in Science. He served as the Dean of the Technion Graduate School (2002-2006) and today he is the Head of Technion's Excellence Program. Prof Bruckstein held visiting positions at Bell Laboratories, MurrayHill (1987-2000), at TsingHua University, Beijing (2002-2003), and short term visiting positions at several European universities. He is currently on the Editorial Board of the SIAM Journal on Image Analysis, the Journal of Mathematical Imaging and Vision, and the Pattern Recognition Journal, and served in the past on the Editorial Boards of the Imaging Systems and Technology Journal, and the Circuits Systems and Signal Processing Journal. He was involved in the program committees of many conferences and workshops. He is a member of SIAM, AMS and MAA, IAPR and he is currently a visiting professor at the SPMS/NTU.

Host: Division of Mathematical Sciences, School of Physical and Mathematical Sciences

SCHOOL OF PHYSICAL AND MATHEMATICAL SCIENCES
NANYANG TECHNOLOGICAL UNIVERSITY
SPMS-MAS-03-01, 21 NANYANG LINK, SINGAPORE 637371
FAX: +65 6515 8213  TEL: +65 6513 7423