



**IEEE Southeastern Michigan Section
Spring Section Conference & Dinner
Thursday, Mar 29, 2007 5pm – 9pm
Fairlane Center, University of Michigan – Dearborn**

Percipient signal processing: seeing the unseen in high dimensional spatio-temporal data

By Dr. Alfred Hero

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Abstract: This talk will discuss applications of signal processing to data mining and structure discovery from different types of high dimensional data. The focus will be on extracting salient structure hidden in measurements collected from interacting agents in a network. The sensors in the network can be swarms of mobile cameras tracking objects, wireless transducers trying to cooperatively self locate, or Internet routers. Our focus will be on sensor networks and the main theme will be dimensionality reduction methods.

Alfred Hero -Short Biosketch: Alfred O. Hero III received the B.S. (summa cum laude) from Boston University (1980) and the Ph.D from Princeton University (1984), both in Electrical Engineering. Since 1984 he has been with the University of Michigan, Ann Arbor, where he is a Professor in the Department of Electrical Engineering and Computer Science and, by courtesy, in the Department of Biomedical Engineering and the Department of Statistics. His recent research interests have been in areas including: inference in sensor networks, adaptive sensing, bioinformatics, inverse problems, and statistical signal and image processing. He is a Fellow of the Institute of Electrical and Electronics Engineers (IEEE) and has received a IEEE Signal Processing Society Meritorious Service Award (1998), a IEEE Signal Processing Society Best Paper Award (1998), and the IEEE Third Millennium Medal (2000). Alfred Hero is currently President of the IEEE Signal Processing Society (2006-2008).

Website: <http://www.eecs.umich.edu/~hero/hero.html>



Evening Schedule:

4:30pm – 5:00pm Registration and Check-In
5:00pm – 5:45pm First half technical sessions, seven parallel sessions for chapter speaker
5:45pm – 6:00pm Vendor exhibition and networking
6:00pm – 6:45pm Second half technical sessions, seven parallel sessions for chapter speaker
6:45pm – 7:15pm Vendor exhibition and networking
7:15pm – 8:00pm Buffet Dinner from Park Place Catering
7:30pm – 8:00pm Awards program during dinner
8:00pm – 9:00pm Keynote speaker

You get your choice of two (2) of the fourteen technical session, plus networking, vendor showcases, dinner and the keynote speaker.

Registration will be online beginning in February at <http://www.ieee-sem.org>.: \$25 for IEEE Members (including members of other ESD Affiliate Council Societies), \$30 non-members, \$10 students/retirees/unemployed. Location is: 19000 Hubbard Drive, Dearborn, Fairlane Center Building, University of Michigan – Dearborn. This event is a technical and professional service to the local IEEE members – this is not a "fundraiser". Contact: Prof. Chris Mi (mi@ieee.org), Conference Chair.