



SENSOR NETWORKS – The New Environment

7th IEEE/NATEA Annual Conference New Frontiers in Computing Technology, 2005

Place: Braun Auditorium, Stanford University

Date: Saturday, May 7th, 2005

Every year, for the last six years, the Santa Clara Chapter of the IEEE Computer Society and the North America Taiwanese Engineers' Association (NATEA) jointly brought to the Bay Area engineering communities the "New Frontiers in Computing Technology" Conference. This year, we bring to you the 7th Annual Conference focusing on the emerging *Sensor Networks* technologies.

Sensor Networks move computing from becoming a distinct entity within an environment to being a seamless part of the environment. This profound change touches both computing and the way we operate in daily life. *Sensor Networks* and the technologies they represent are fast becoming a new reality.

In order to better understand this emerging technology and its complex interactions, the Santa Clara Chapter of the IEEE Computer Society and NATEA are pleased to present a one-day conference on *Sensor Networks*. Starting with the hardware, this conference will cover such vital issues as wireless networking, distributed algorithms and applications at the engineering level. The aim of this conference offering is to provide members of the engineering communities with enough basic information to be able to make decisions regarding sensor networks and their applicability in new and emerging technical environments.

New Frontiers in Computing Technology - 2005

Sensor Networks – The New Environment

May 7th, 2005 at Stanford University

The [Braun Auditorium](#) is located in the Mudd Chemistry Building of Stanford Campus.

Morning Program	
8:00am-9:00am	Registration
9:00am-9:15am	Opening Remark <i>Michael Graebner</i> , IEEE Computer Society Vice-Chair <i>John Huang</i> , President of NATEA SV Chapter
9:15am-10:00am	Keynote: An Introduction to Sensor Networks <i>Professor Leonidas Guibas</i> Computer Science Department, Stanford University
10:00am-10:45am	An Application and Technology Framework for Wireless Sensor Networks <i>Dr. John Suh</i> Senior Application Engineer, Crossbow Technology
10:45am-11:00am	Break
11:00am-11:45am	Target Tracking and Surveillance Using Sensor Networks <i>Professor Prasant Mohapatra</i> Computer Science Department, University of California – Davis
11:45am-12:30pm	Super-node Design and Implementation in Wireless Sensor Networks <i>Professor Frank Hsu</i> Chair, Dept. of Computer and Information Science, Fordham University
12:30pm-1:30pm	Lunch Break

Afternoon Program	
1:30pm-2:15pm	Keynote: Wireless LAN Enabled Cellphones: Why Integration is Inevitable <i>Professor H.T. Kung</i> Computer Science and Electrical Engineering Dept, Harvard University
2:15pm-3:00pm	Video Sensor Networks: HW, SW and some Algorithms <i>Dr. Gary Bradski</i> Manager, Intel Corporate Technology
3:00pm-3:15pm	Break
3:15pm-4:00pm	System Challenges for Designing a Zigbee Baseband Chip <i>Dr. Kuor-Hsin Chang</i> Senior System Architect, Freescale Semiconductor
4:00pm-4:45pm	Emerging Applications of Sensor Networks <i>Professor Hamid Aghajan</i> Electrical Engineering Department, Stanford University
4:45pm-5:00pm	Program Closing

Registration

http://www.natea.org/NFIC/2005/0507_reg.php

Registration Fees	Online Registration	On-site Registration
IEEE, SNF, or NATEA Members	\$50	\$60
Non-Members	\$60	\$70
Students/Unemployed Members	\$25	\$30

All prices include meals.

For more information, please go to <http://www.natea.org/NFIC/>

Or contact:

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