

**THURSDAY
DECEMBER 4, 2003**

Scaife Hall Auditorium
Room 125

4: 00 PM
Refreshments—3:30 PM



Aura Ganz

UNIVERSITY OF MASSACHUSETTS, AMHERST

Professor Aura Ganz is the director of the Multimedia Networking Laboratory at the University of Massachusetts at Amherst. She has authored more than 150 journal and conference papers in the areas of wireless, optical, satellite and QoS networking and security. She is the co-author of the book: "Multimedia Wireless Networks", Prentice Hall, 2003. Some of her recent assignments include: general co-chair of the Massachusetts 3rd Annual R&D Conference, keynote speaker at the NSF sponsored workshop in Mobile Computing, and invited speaker at Personal and Local Wireless Network Solutions conference, and Motorola's Wireless Communications Futures Forum, Wireless Local Area Networks Conference. She has a PhD, MSc and BSc in Computer Science from the Technion in Israel.

For more information:

<http://amp.ece.cmu.edu/ECESeminar>

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FIELD CONFIGURABLE ARCHITECTURE FOR TELEMEDICINE APPLICATIONS

The application of telecommunication, networking, and multimedia technologies to health care has significant potential to improve health care today. Several telemedicine scenarios can greatly benefit from well designed systems - home care, ubiquitous monitoring, remote consultation, disaster recovery, battlefield situation, emergency help, and these are only the tip of the iceberg. As applications evolve, there will be greater demands and as technologies evolve there will be performance improvements. In such a situation, can we design a system independent of specific applications and current technology, addressing cross functionality and extendibility to the next generation telemedicine applications. This talk addresses these issues and presents a field configurable software framework that aims to be versatile to different medical applications, non-proprietary and extendible, to adapt to improving technology - a plug-in framework which is dynamically deployed and adapted to a multitude of possible dimensions, and independent of hardware. We will also present a number of telemedicine systems that we have developed, some of them in conjunction with Harvard Medical School and Massachusetts General Hospital. 