



Center for Pervasive Communications and Computing

University of California, Irvine
Irvine, CA 92697-2625

Dear Colleague,

The Center for Pervasive Communications and Computing at UC Irvine, founded in June 2000, carries out research on various aspects of telecommunications and networking and is supported by local industry. For industry, there are various forms of interaction with the Center, including supporting projects with matching grants from the UC Discovery program.

On June 7, 2006 the Center will have a one-day event where faculty and students affiliated with the Center will present research results. The day will consist of presentations as well as networking time with students and faculty. At the end of the day, there will be a reception where student presentations will be available once again as poster presentations. You can attend both the day-long presentations and the reception or only the presentations or the reception.

SESSION I: INTRODUCTION AND STATE-OF-THE-ART IN WIRELESS NETWORKING

09:00	Prof. Ender Ayanoglu	CPCC: 2000 to 2006
09:30	E. Akay	BICMB: Achieving Maximum Throughput and Diversity in 802.11n MIMO Wireless Networks
09:45	E. Sengul	Adaptive BICMB for MIMO Wireless Networks
10:00	I. Inan	QoS Scheduling in 802.11e Wireless Networks

10:15 **BREAK**

SESSION II: SPACE-TIME CODING, COGNITIVE RADIO, COOPERATIVE NETWORKS

10:30	Prof. Hamid Jafarkhani	Recent Advances in Space-Time Coding and Beamforming
11:00	B. M. Lee	Nonlinear and Decision-Oriented Signal Processing for PAPR Reduction in OFDM Wireless Communications
11:15	Prof. Syed Jafar	Cognitive Coexistence in Wireless Ad-Hoc Networks: An Information Theoretic Perspective
11:30	S. Srinivasa	Capacity of Cognitive Radio in Dynamic and Distributed Spectral Environments
11:45	S. Gomadam	Optimal Memoryless Node Functionality in Cooperative Wireless Networks

12:00 **LUNCH** Lunch to be served in the Calit2 Atrium

SESSION III: MODERN COMMUNICATION CIRCUIT DESIGN

01:30	Prof. Ahmed Eltawil	Bridging the Gap Between System and Circuit Design
01:45	H. Eslami	Implementation of Wideband Wireless Channel Emulator on FPGAs
02:00	A. K. Djahromi	Embedded SRAM Failure Analysis for Aggressive Voltage
02:15	Prof. Payam Heydari	Design of Novel Integrated Circuits (ICs) for Broadband Wireless/Wireline Communication Systems
02:30	V. Jain	Optimal Memoryless Node Functionality in Cooperative Wireless Networks
02:45	S. Sundaram	Silicon-Based mm-wave Frequency Synthesizer for 24 GHz Wideband Wireless Receiver
03:00	A. Yazdi	A 40 Gb/s Full Rate Multiplexer in 0.18 μ m Technology

03:15 **BREAK**

SESSION IV: SYSTEM-ON-A-CHIP

03:30	Prof. Nader Bagherzadeh	SoC Design for High Performance DSP Applications
03:45	J. H. Ban	MaRS: Design and Analysis of a Network-on-Chip Architecture
04:00	Prof. N. Dutt	Early Power/Energy Estimation for IP-Based Design of SOCs
04:15	S. Pasricha	SoC Communication Architecture Exploration

04:30 **RECEPTION, TOURS, AND POSTER SESSION**

REGISTRATION INFO

Registration for the event is \$35 per person. Registration begins 8:30 a.m. / Orange Juice, Coffee, Mini Muffins and Danishes provided. Please register online by clicking on the following link <http://www.regonline.com/97676>.

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