



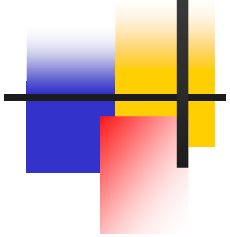
Mobility Challenges in Networking

**IEEE InfoCom'06
Barcelona
Spain**



Mobility in Future Networks

- Wireless networks have created strong demands for the highest level of "Quality of User Experience", at least equivalent to that experienced in wireline networks
- Several challenges arise:
 - Integration of heterogeneous network technologies, QoS provisioning, security and mobility management.
- Focus is discussing innovative ideas and explore future directions in identifying the architectural design issues and principles toward enabling enhanced mobile networks
 - How do we conceive this network today, if we were to design it from scratch?



Panelists

John A. Stankovic



■ Biographical Sketch

- Prof. Stankovic received his Ph.D. from [Brown University](#) in 1979 and then served on the faculty of [University of Massachusetts at Amherst](#). He came to [UVA](#) as BP America Professor and Chair of the [Department of Computer Science](#) in 1997.
- Professor Stankovic is a Fellow of the [IEEE](#), a Fellow of the [ACM](#), and he served on the [Computing Research Association](#) Board of Directors for nine years.
- He received an IEEE Award for Outstanding Technical Contributions and Leadership in Real-Time Systems, and an Outstanding Scholar Award from the University of Massachusetts.

■ Areas of Interest

- Real-time computing, embedded computing, operating systems, wireless sensor networks, and large scale distributed computing.
 - The focus is on investigating various approaches to real-time scheduling, including the development of a theory and practice of [feedback control real-time scheduling](#). He is also involved with building a network virtual machine for wireless sensor networks.

Robin Kravets



- **Prof. Kravets** is currently an Associate Professor in the [Department of Computer Science](#) at the [Univ. of Illinois in Urbana-Champaign](#).
 - Professor Kravets received her Ph.D. from [Georgia Institute of Technology](#), an M.S. in Computer Science from [UCLA](#) in 1993, a B.S. in Computer and Information Science from [the University of Massachusetts at Amherst](#) in 1989.
- **Research Interests**
 - Her interests are in the area of Mobile Computing and Communications.
 - She currently leads [The Mobius Group](#), which is dedicated to research for seamless communication in mobile computing.
 - She is a member of the [Grace Project](#), which aims to provide a cross-layer solution to global resource management.
 - She is also a member of the [GAIA Project](#), which focuses on research in Active Spaces for Ubiquitous Computing.

Prof. LIXIA ZHANG



- Prof. Zhang is a Prof. at UCLA Comp. Science Department
- She received her Ph.D in computer science from the Massachusetts Institute of Technology in 1989.
- She joined the faculty of UCLA's Computer Science Department in 1995. Prior to that she was a member of the research staff at the Xerox Palo Alto Research Center
- **AREAS OF INTEREST**
 - Architectures & protocols for large scale & high speed networks
 - Protocol design, implementation, & performance analysis
- Dr. Zhang served on the Internet Architecture Board and Directorates in IETF.
- She is also served as the vice chair of ACM SIGCOMM, an editor for the IEEE/ACM Transactions on Networking, and from 1991 to 1999 as an associate editor for ACM Computer Communication Review.



Panel Format

- Brief Statement from each panelist
- Lots and Lots of Discussion
 - Opinions, comments from the audience
 - Questions and Answers

Let's Go!

