

Ilinois CenterforW ireless System s

Co-Directors: Nitin Waidya and Venu Veeravalli



Wireless Research at Illinois

- " Arguably the most prominent wireless communications/networking team in academia
- " 35+ faculty in College of Engineering
- " 100+ graduate students and postdocs
- Research sponsored by various federal funding agencies (NSF, DARPA, ONR, etc.), and companies (Boeing, Motorola, Rockwell-Collins, Vodafone, etc.)

Motivation and Plans

- Consolidate wireless-related research activities at UIUC
- Support systems projects investigating end-to-end solutions, in addition to narrowly focused projects
- Focal point for industry-university interactions in wireless communications/networking
 - research, collaborations, student recruiting, continuing education
- Support educational activities
 - undergraduate research
 - wireless-related courses
- Funding models
 - industry: gifts, fellowships, funded research, collaborative projects
 - government: Center-scale grants (e.g., ERC, IGERT, REU), and Multi-investigator projects (e.g., MURI, DARPA)

Antennas/Circuits/ Architecture

- * Sarita V. Adve
- * Jennifer Bernhard
- * Deming Chen
- * Yun Chiu
- * Milton Feng
- * Ada Poon
- * Elyse Rosenbaum
- * Naresh Shanbhag

Communication Systems

- * Richard Blahut
- * Todd Coleman

 * Minh Do
- * Douglas Jones
- * Olgica Milenkovic
- * Pierre Moulin * Ada Poon
- * Dilip Sarwate
- * Andrew Singer * Venu Veeravalli
- * Pramod Viswanath

Network Algorithms

- * Tamer Basar
- * Chris Hadjicostis
- * Bruce Hajek
- * Jennifer Hou
- * P. R. Kumar
- * Sean Meyn * R. Srikant
- * Venu Veeravalli

Network Protocols

- * Tarek Abdelzaher
- * Intranil Gupta
 * Jennifer Hou
- * Robin Kravets
- * Haiyun Luo
- * Klara Nahrstedt
- * C. Polychronopoulos
- * Nitin Vaidya
- * Benjamin Wah

Security

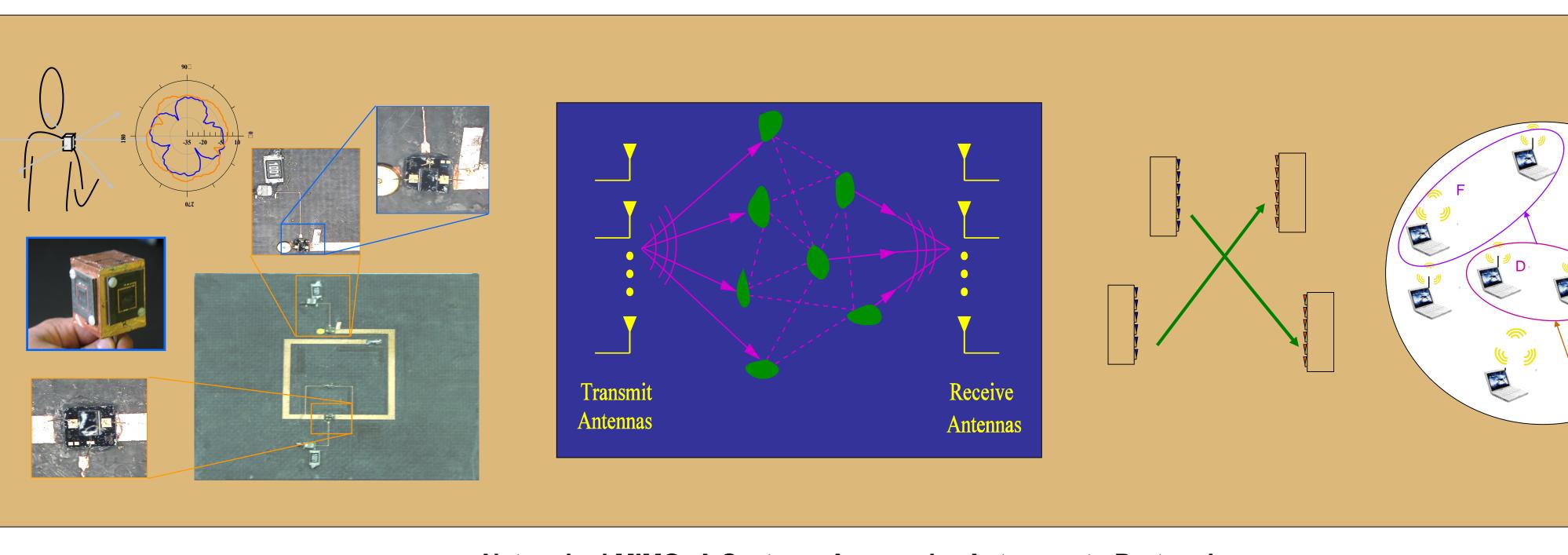
- * Tamer Basar
- * Richard Blahut
- * Roy Campbell
- * Carl Gunter
- * Chris Hadjicostis
- * Yih-chun Hu
- * Ravishankar K lyer * William H. Sanders
- * Nitin H. Vaidya

Performance Modeling/ Simulations

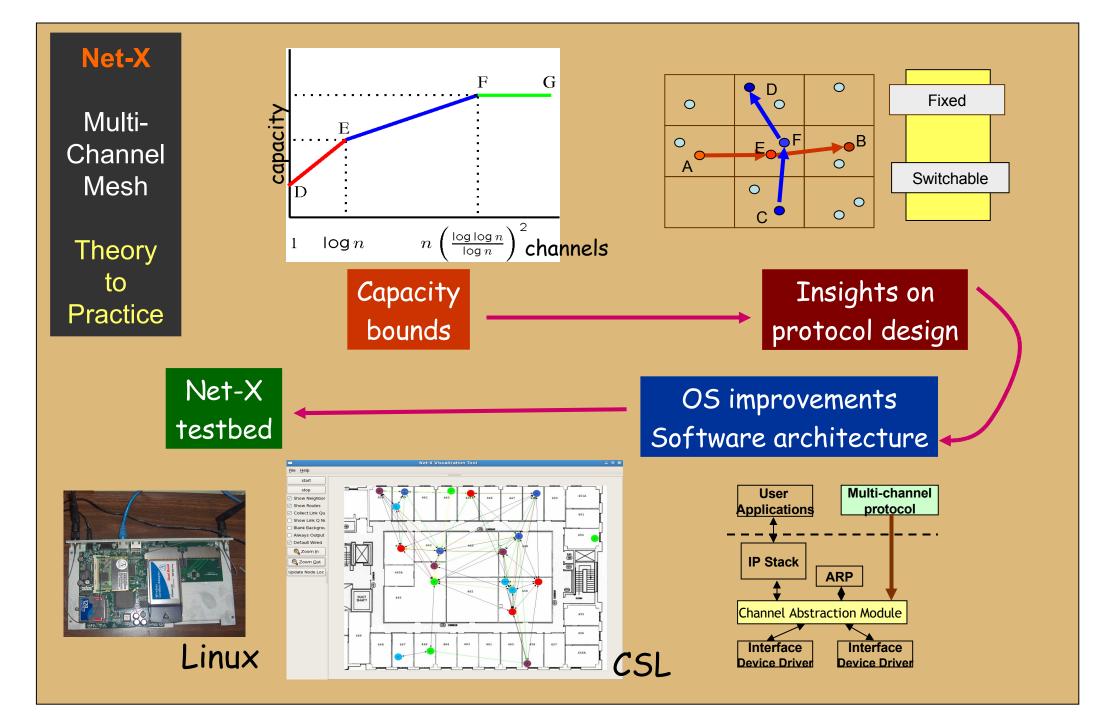
- * Jennifer Hou
- * Ravi Iyer
- * David Nicol
- * William H. Sanders

Applications/Middleware

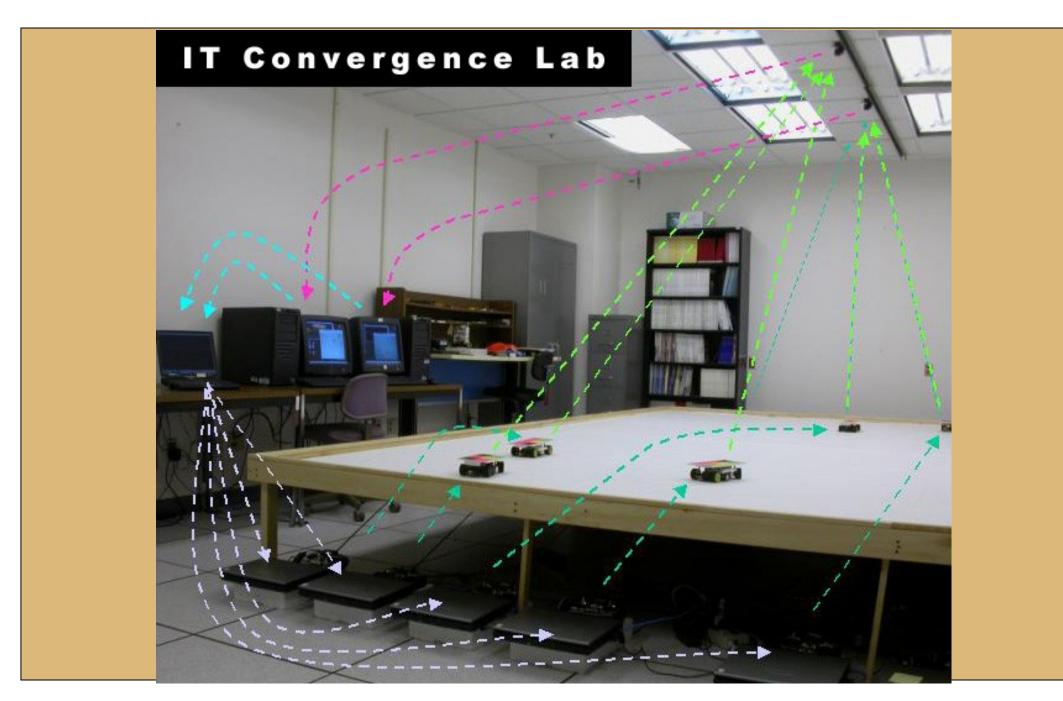
- * Gul Agha
- * Indranil Gupta
- * Klara Nahrstedt



Networked MIMO: A Systems Approach - Antennas to Protocols



Net-X: Theory to Practice



Convergence of Communications, Computing and Control

