



The Center for Control, Dynamical Systems, and Computation  
University of California at Santa Barbara  
Spring 2009 Seminar Series  
Presents

## An Eclectic Set of Results on Networks and Systems

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University of Washington

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### Abstract:

In this talk, I will focus on a set of observations that are motivated by networked dynamic systems- in particular those pertaining to networked systems where the structure of the underlying network has a dominant effect on the exhibited system-theoretic properties. Along the way, I plan to discuss an eclectic set of ideas and results with a common thread, including those related to chip firing games, random walks on graphs, security of networked systems, graphical system identification, and network synthesis via notions from optimization theory and game theory.

### About the Speaker:

Mehran Mesbahi received his Ph.D. from USC in 1996. He was a member of the Guidance, Navigation, and Analysis group at JPL from 1996-2000 and an Assistant Professor of Aerospace Engineering and Mechanics at University of Minnesota from 2002-2002. He is currently an Associate Professor of Aeronautics and Astronautics at the University of Washington in Seattle. He was the recipient of NSF CAREER Award in 2001, NASA Space Act Award in 2004, UW Distinguished Teaching Award in 2005, and UW College of Engineering Innovator Award in 2008. His research interests are distributed and networked systems, systems and control theory, and engineering applications of optimization and combinatorics.

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