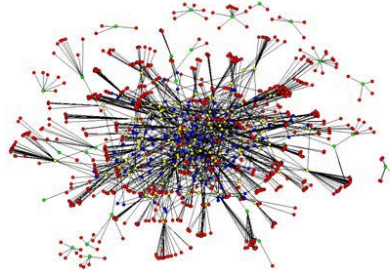# UC Human Social Dynamics
4-Campus Video-Colloquium Series

Friday, February 10 - 1:30-3:00   (the third meeting for 2006)

Michalis Faloutsos (UCR Computer Science) http://www.cs.ucr.edu/~michalis/

"The Internet is Like a Jellyfish"

Professor Faloutsos is one of the leading researchers on network topologies, their traversability, and traffic load.

Abstract: Several novel concepts and tools have revolutionized our understanding of the Internet topology. Most of the existing efforts attempt to develop accurate analytical models. In this work, our goal is to develop an effective conceptual model: a model that can be easily drawn by hand, while at the same time, it captures significant macroscopic properties. We build the foundation for our model with two thrusts: a) we identify new topological properties, and b) we provide metrics to quantify the topological importance of a node. We propose the jellyfish as a model for the inter-domain Internet topology. We show that our model captures and represents the most significant topological properties. Furthermore, we observe that the jellyfish has lasting value: it describes the topology for more than six years.

Locations: The 4 UC Campus Video Conf Centers

UCI: 120 Social Science Tower, Instructional Technology Center

UCLA: Powell Library Room 285

UCSD: Room 260 Galbraith Hall, Center for Instructional Computing Services (CLICS)

UCR: B221 Sproul Hall

For further information, abstracts and course credit, see: **http://tinyurl.com/b4xhj**

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