



Cal-(IT)² UC Irvine division presents the **2004 RESCUE SEMINAR SERIES**

"Information Mediation, Optimization Issues, The Upcoming Semantic Web"

DATE: Tuesday, July 6, 2004

LOCATION: 432 Computer Science Building at UCI

RELATED LINKS:

<http://ic.arc.nasa.gov/~ashish>

MORE INFO:

Refreshments served at 2:00 p.m. with talk to follow.

For additional information on this series contact RESCUE project administrative manager, Lynn Harris, (949) 824-1147 or leharris@uci.edu



SPEAKER: Naveen Ashish
Computer Scientist
Research Institute for Advanced Computer
Science
NASA Ames Research Center

ABSTRACT:

Providing integrated access to multiple, distributed, and heterogeneous information sources and services continues to be an important practical and research problem in several diverse domains ranging from aviation information management to bioinformatics. I will begin with an introduction to Web-based *Information Agents/Mediators* – software systems that provide integrated access to multiple heterogeneous sources. We will then look at the performance issue in such systems in more detail. I will present an approach to optimizing performance in information agents by locally materializing data, taking into account several factors such as the distribution of user queries, structure of Web sources and updates at Web sources. This was the focus of my doctoral dissertation work. I will also talk about continued research on certain aspects of this work, in the area of update synchronization. Finally I will present a brief overview of recent information integration research activity and proposed work at NASA Ames, based on upcoming Semantic Web technology.

BIO:

Naveen Ashish is a computer scientist at NASA Ames Research Center where he is a member of the Information Sciences Division. He works on developing and applying technologies in information integration, information agents and the semantic web to addressing NASA information management problems, particularly in the aviation domain. Naveen graduated from IIT Kanpur, India with a BTech in Computer Science in 1993 and received his PhD, also in Computer Science, from the Information Sciences Institute (ISI) at the University of Southern California in 2000.