The CSU Information Science and Technology Center (ISTeC)
and the Department of Computer Science

Present two talks by

Dr. James A. Hendler

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and
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Monday, February 9, 2004

ISTeC Distinguished Lecture

"The Semantic Web – Bringing Meaning to the World Wide Web"

2:10 p.m.
Lory Student Center, Cherokee Park Room
Colorado State University Campus

Reception, 3:00 p.m.
Lory Student Center, University Club

Computer Science Distinguished Lecture

"Dynamic Service Choreography on the Semantic Web"

Co-sponsored by the CSU ISTeC
4:10 p.m.
Lory Student Center, Cherokee Park Room

All events are free and open to the public

Additional information is available at (970) 491-5862.

ABSTRACTS

"The Semantic Web – Bringing Meaning to the World Wide Web"

The World Wide Web is often referred to as a web of information, but is it? When you ask a query on the web you get pointers to pages, not answers. If you're looking for something beyond text, you're often unable to find it. The next generation of the Web, already in the works, aims to fix this by making more of the content on the web "understandable" to the programs that help us find, filter and use what is out there. In this talk, Dr. Hendler will describe this new generation of the web, discuss some of the technologies that will help to power it, and consider some of the ways in which it may be used to create new and powerful web applications beyond the capabilities of the current web. Dr. Hendler will also discuss future directions for Semantic Web research.

"Dynamic Service Choreography on the Semantic Web"

In a joint project with Fujitsu Laboratories of American, the University of Maryland has focused on the semi-automated composition of Web services and the automated composition of services using planning technology. Our work is built on top of the DAML Service (DAML-S) ontologies. We have demonstrated the grounding of DAML-S in both the Web service Description Language (WSDL) and the Universal Plug and Play (UPnP) device service description. This latter is used in ubiquitous computing applications as it provides an integration of Web services with computing on devices such as personal digital assistants (PDAs) and data tablets. We have developed a composer that creates a workflow of services that can solve the users need in a goal-driven way. The system is also extensible, any composition generated by the user and the system can be automatically realized as a DAML-S CompositeProcess, allowing it to be reused at a later time or used by the system for composition with other services. This talk describes our work in Web Service composition, and more generally discussed the role that semantics can play in the world of Web Services.

Dr. James A. Hendler

Jim Hendler is a co-chair of the W3C Web Ontology Working Group, a member of the W3C Semantic Web Coordination Group, and the Director of Semantic Web and Agent Technologies for the University of Maryland's MIND Laboratory. His work in the area of the Semantic Web goes back a number of years: his research group developed SHOE, the first web ontology language; he was the creator of DARPA's DAML program and helped to create and participate in the joint committee that created DAML+OIL. He was the coauthor, along with Tim Berners-Lee and Ora Lassila, of the widely cited “Semantic Web” article in Scientific American, and his paper "Is there an Intelligent Agent in Your Future" (Nature, 1999) was the recipient of the 1999 AAAI Expository Paper Award. Hendler was also the Conference Chair for the first International Semantic Web Conference, is one of the vice presidents of the Semantic Web Science Association, chairs the International Advisory Board for the Web Semantics Journal, and generally tries to be around wherever the fun stuff is happening in the Semantic Web world. Mr. Hendler is a Fellow of the American Association for Artificial Intelligence.

Information Science and Technology Center (ISTeC)

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