
From Atoms to OWLs the new ecology of the Semantic Web

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Abstract

Over the past couple of years, Semantic Web deployment has really started rolling. Successes have included adoption of RDF by major corporations and the development of new ontology-based technologies of use for many enterprise and web applications. Despite this, controversy still seems to abound with respect to both the relationship of the Semantic Web to XML, and the use of these technologies. In this talk, I will explain what the Semantic Web is all about and, perhaps more importantly, attempt to dispel two pervasive myths -- that XML and the Semantic Web are incompatible, and that XML is able to do all that the Semantic Web promises without reinventing the semantic extensions inherent in RDF and OWL.

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1. Keynote Talk

This was a keynote talk and no paper was prepared for the proceedings.

Biography

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Jim Hendler is a Professor at the University of Maryland and the Director of Semantic Web and Agent Technology at the Maryland Information and Network Dynamics Laboratory. He has joint appointments in the Department of Computer Science, the Institute for Advanced Computer Studies and is an affiliate of the Institute for Systems Research. He has authored about 200 technical papers in the areas of artificial intelligence, Semantic Web, agent-based computing and high performance processing. Hendler was the recipient of a 1995 Fulbright Foundation Fellowship, is a former member of the US Air Force Science Advisory Board, and is a Fellow of the American Association for Artificial Intelligence. He is also the former Chief Scientist of the Information Systems Office at the US Defense Advanced Research Projects Agency (DARPA), was awarded a US Air Force Exceptional Civilian Service Medal in 2002, and is a member of the World Wide Web Consortium's Semantic Web Coordination Group. He is the Editor in Chief of IEEE Intelligent Systems and is on the Board of Reviewing Editors for Science.