

## Web Services: SOAP, UDDI, and Semantic Web

Justin R. Erenkrantz  
Institute for Software Research  
University of California, Irvine  
Irvine, CA 92697-3425  
jerenkra@ics.uci.edu

ISR Technical Report # UCI-ISR-04-3

May 2004

**Abstract:** As the World Wide Web has grown, it has been a challenge to allow meaningful understanding of content on the web. To face this challenge, several technologies and initiatives have been introduced under the umbrella of web services - such as SOAP, which is used to exchange information between web services, and UDDI which provides discovery services. Additionally, the semantic web has also been proposed to facilitate understanding. However, these initiatives conflict with the underlying architectural style of the World Wide Web (REST) and its predominant instantiation (HTTP). These mismatches are discussed along with potential recommendations to resolve these conflicts.