

Book Chapter

- John Harney and Prashant Doshi, "Selective Querying for Adapting Hierarchical Web Service Compositions", to appear in **Methodologies for Non-Functional Requirements in Service Oriented Architecture: Requirements Engineering, Model-Driven Development and Security**, published by ([IGI Global \(formerly Idea Group\)](#)) in 2010)

Workshop Papers

- John Harney and Prashant Doshi, "Speeding Up Web Service Composition with Volatile External Information", in International Workshop on CSSSIA, WWW, ACM Conference Proceedings, Vol 294, 2008
- John Harney and Prashant Doshi, "Adaptive Web Processes Using Value of Change Computations", in AAAI Workshop on AI-Driven Technologies for Services-Oriented Computing, 2006

Posters

- John Harney and Prashant Doshi, "Speeding Up Web Service Composition With Volatile External Information", in WWW, poster, 2008

Presentations & Talks

- "Making BPEL Flexible -- Adapting in the Context of Coordination Constraints Using WS-BPEL", SCC, Honolulu, HI, June 2008
- "Speeding Up Adaptation of Web Service Compositions Using Expiration Times", WWW, Banff, AB, CA, May 2007

Research & Projects

- **(Fall 2005 – present) PhD dissertation research - Adaptation in the presence of environment volatility in Web Service (WS) compositions – see publications for details**
 - Identified the problem of volatility in SOA environments
 - Utilized Markov Decision Processes to compose Web services
 - Adapted WS compositions to accommodate changes in the environment
 - Optimized the time required to perform adaptations
 - Adapted WS compositions according to user preferences (i.e. risk)
- **(Fall 2008) Real-time ontology editor**
 - Used AJAX to create an asynchronous real-time graphical ontology editor (my role on the team was the development of the backend ontologies using jena)