A Meta-Workflow System Designed for Solving Complex Scientific Problems using Heterogeneous Tools

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Priority:
1. Technical track of the meeting: Web Services Chaining (Brian Wilson)
2. Science/application track of the meeting: Water Management (Annette Schloss)

Abstract
This poster addresses the problem of designing a highly interactive scientific meta-workflow system that aims at building complex problem-solving environments. The meta-workflow is viewed as a framework that integrates heterogeneous workflow engines, software tools, data sites, hardware resources, organizational boundaries, and/or research domains. The need for meta-workflow comes from common GIS problems, where a number of on-going observatory and disaster planning efforts have to be supported by cyber-infrastructures being researched and developed at NCSA-UIUC.