

# **2008 Third Workshop on Workflows in Support of Large- Scale Science**

## **(WORKS 2008)**

**Austin, Texas, USA  
17 November 2008**



IEEE Catalog Number: CFP0816F-PRT  
ISBN: 978-1-4244-2827-4

## TABLE OF CONTENTS

<b>Monitoring Infrastructure for Grid Scientific Workflows .....</b>	1
<i>B. Balis, M. Bubak</i>	
<b>Characterization of Scientific Workflows .....</b>	11
<i>S. Bharathi, A. Chervenak, E. Deelman, G. Mehta, M.H. Su, K. Vahi</i>	
<b>Advanced QoS Methods for Grid Workflows Based on Meta-Negotiations and SLA-Mappings.....</b>	21
<i>I. Brandic, D. Music, S. Dustdar, S. Venugopal, R. Buyya</i>	
<b>A Chemical Workflow Engine for Scientific Workflows with Dynamicity Support .....</b>	31
<i>M. Caeiro, Z. Nemeth, T. Priol</i>	
<b>WS-PGRADE: Supporting Parameter Sweep Applications in Workflows .....</b>	41
<i>P. Kacsuk, K. Karoczkai, G. Hermann, G. Sipos, J. Kovacs</i>	
<b>Pegasus on the Virtual Grid: A Case Study of Workflow Planning over Captive Resources .....</b>	51
<i>Y.S. Kee, E. Byun, E. Deelman, K. Vahi, J.S. Kim</i>	
<b>A General and Scalable Solution for Heterogeneous Workflow Invocation and Nesting.....</b>	60
<i>T. Kukla, T. Kiss, G. Terstyanszky, P. Kacsuk</i>	
<b>CASJobs: A Workflow Environment Designed for Large Scientific Catalogs .....</b>	68
<i>N. Li, A. Szalay</i>	
<b>A Semantic Workflow Mechanism to Realise Experimental Goals and Constraints.....</b>	76
<i>E. Pignotti, P. Edwards, G. Polhill, N. Gotts, A. Preece</i>	
<b>Author Index</b>	