

2010 5th Petascale Data Storage Workshop

(PDSW 2010)

**New Orleans, Louisiana, USA
15 November 2010**



**IEEE Catalog Number: CFP1083G-PRT
ISBN: 978-1-4244-8913-8**

TABLE OF CONTENTS

Self-Adjusting Two-Failure Tolerant Disk Arrays	1
<i>Ignacio Corder , Thomas Schwarz, Ahmed Amer, Darrell D.E. Long, Jehan-Francois Paris</i>	
Using a Shared Storage Class Memory Device to Improve the Reliability of RAID Arrays	6
<i>Sara Chaarawi, Jehan-Francois Paris, Ahmed Amer, Thomas J. E. Schwarz, Darrell D. E. Long</i>	
Semantic Data Placement for Power Management in Archival Storage	11
<i>Avani Wildani, Ethan L. Miller</i>	
Workload Characterization of a Leadership Class Storage Cluster	16
<i>Youngjae Kim, Raghul Gunasekaran, Galen M. Shipman, David A. Dillow, Zhe Zhang, Bradley W. Settlemyer</i>	
Performance Analysis of Commodity and Enterprise Class Flash Devices	21
<i>Neal M. Master, Matthew Andrews, Jason Hick, Shane Canon, and Nicholas J. Wright</i>	
Virtualization-based Bandwidth Management for Parallel Storage Systems	26
<i>Yiqi Xu, Lixi Wang, Dulcardo Arteaga, Ming Zhao, Yonggang Liu, Renato Figueiredo</i>	
Extracting Information ASAP!	31
<i>Hasan Abbasi, Greg Eisenhauer, Scott Klasky, Karsten Schwan, Matthew Wolf</i>	
Collective Prefetching for Parallel I/O Systems	36
<i>Yong Chen, Philip C. Roth</i>	
Towards Parallel Access of Multi-dimensional, Multi-resolution Scientific Data	41
<i>Sidharth Kumar, Valerio Pascucci, Venkatram Vishwanath, Philip Carns, Mark Hereld</i>	
Author Index	