



Challenges of Large Applications in Distributed Environments (CLADE)

In conjunction with the 13th International Symposium on High Performance Distributed Computing (HPDC-13)
Honolulu HI, June 7, 2004

<http://www.caip.rutgers.edu/clade2004/>

Advance Program ([PDF](#))

8:00-8:15 am	Opening Remarks – R. Bair, General Chair, Room: Suite 1
	Welcome – M. Parashar, Program Chair, Room: Suite 1
8:15-9:15 am	Keynote Address – Chair: R. Bair, Room: Suite 1 A Grid based Diagnostics and Prognosis System for Rolls Royce Aero Engines: The DAME Project, J. Austin, University of York (Abstract)
9:15-10:05 am	SESSION I – Chair: R. Bair, Room: Suite 1 Applications I
	<p>Grids for Experimental Science: the Virtual Control Room K. Keahey¹, M. E. Papka¹, Q. Peng², D. Schissel², G. Abla², T. Araki^{1,3}, J. Burruss², S. Feibush⁴, P. Lane¹, S. Klasky⁴, T. Leggett¹, D. McCune⁴, L. Randerson⁴ ¹Argonne National Laboratory, Argonne, IL, USA, ²General Atomics, San Diego, CA, USA, ³NEC Internet Systems Research Laboratories, Kanagawa Japan, ⁴Princeton Plasma Physics Laboratory, Princeton, NJ, USA</p>
	<p>Support for Data-Intensive, Variable-Granularity Grid Applications via Distributed File System Virtualization – A Case Study of Light Scattering Spectroscopy J. Paladugula, M. Zhao, R. Figueiredo ACIS Laboratory, Department of Electrical and Computer Engineering, University of Florida, FL, USA</p>
10:05-10:30 am	Break
10:30-12:10 pm	SESSION II – Chair: M. Parashar, Room: Suite 1 Infrastructures and Services I
	<p>A Collaborative Informatics Infrastructure for Multi-scale Science J. D. Myers², T. C. Allison⁶, S. Bittner³, B. Didier², M. Frenklach⁸, W. H. Green, Jr.⁶, Y-L Ho⁵, John Hewson¹, W. Koegler¹, C. Lansing³, D. Leahy¹, M. Lee¹, R. McCoy², M. Minkoff³, S. Nijsure³, G. von Laszewski³, D. Montoya⁵, C. Pancerella¹, R. Pinzon³, W. Pitz⁴, L. A. Rahn¹, B. Ruscic³, K. Schuchardt², E. Stephan², A. Wagner³, T. Windus², C. Yang¹ ¹Sandia National Laboratories, Livermore, CA, USA, ²Pacific Northwest National Laboratory, Richland, WA, USA, ³Argonne National Laboratory, Argonne, IL, USA, ⁴Lawrence Livermore National Laboratory, Livermore, CA, USA, ⁵Los Alamos National Laboratory, Los Alamos, NM, USA, ⁶NIST, Gaithersburg, MD, USA, ⁷MIT, Cambridge, MA, USA, ⁸University of California, Berkeley, CA, USA</p>
	<p>Grid Service for Visualization and Analysis of Remote Fusion Data S. Shasharina, N. Wang, J. Cary Tech-X Corporation, USA</p>
	<p>On Building Parallel & Grid Applications: Component Technology and Distributed Services D. Gannon, S. Krishnan, L. Fang, G. Kandaswamy, Y. Simmhan, A. Slominski Department of Computer Science, Indiana University, Bloomington, IN, USA</p>
	<p>The MicroGrid: Using Online Simulation to Predict Application Performance in Diverse Grid Network Environments H. Xia¹, H. Dail², H. Casanova^{1,2}, A. Chien¹ ¹Department of Computer Science and Engineering, University of California at San Diego, CA, USA, ²San Diego Supercomputer Center, University of California at San Diego, CA, USA</p>
12:10-1:30 pm	LUNCH, Room: Suite 3

1:30-2:50 pm	<p align="center">SESSION III – Chair: S. Hariri, Room: Suite 1 Applications II</p>
	<p align="center">Bioinformatics Invited Presentation Casting a Wider Net: Divining the Future of the Digital Biology, P. LoCascio, <i>Oak Ridge National Laboratory</i> (Abstract)</p>
	<p align="center">Engineering a Peer-to-Peer Collaboratory for Tissue Micro Array Research C. Schmidt¹, M. Parashar¹, W. Chen², D. J. Foran² ¹TASSL, <i>Department of Electrical and Computer Engineering, Rutgers University, NJ, USA</i>, ²CBII, <i>University of Medicine and Dentistry New Jersey - Robert Wood Johnson Medical School, NJ, USA</i></p>
	<p align="center">SIBIOS: A System for the Integration of Bioinformatics Services Z. B. Miled, M. Mahoui, N. Gao, L. Lu, J. Chen, Y. He <i>Indiana University Purdue University Indianapolis, IN, USA</i></p>
2:50-3:40 pm	<p align="center">SESSION IV – Chair: U. Catalyurek, Room: Suite 1 Infrastructures and Services II</p>
	<p align="center">Morphable Messaging: Efficient Support for Evolution in Distributed Applications S. Agarwala, G. Eisenhauer, K. Schwan <i>College of Computing, Georgia Institute of Technology, Atlanta, GA, USA</i></p>
	<p align="center">Application-Controllable Policies in the Distributed Mass Storage System NSM Z. Ali, Q. Malluhi <i>Distributed Computing Laboratory, Computer Science Department, Jackson State University, Jackson, MS, USA</i></p>
3:40-4:10 pm	<p align="center">BREAK</p>
4:10-5:25 pm	<p align="center">SESSION V – Chair: I. Banicescu, Room: Suite 1 Scheduling and Mapping</p>
	<p align="center">Experimental Study of a Self-Scheduling Task Allocation Protocol in Distributed Systems B. Hong, V. Prasanna <i>University of Southern California, Los Angeles, CA, USA</i></p>
	<p align="center">FastMap: A Distributed Scheme for Mapping Large Scale Applications onto Computational Grids S. Sanyal¹, A. Jain¹, S. K. Das¹, R. Biswas² ¹Dept. of Computer Science & Engineering, <i>The University of Texas at Arlington, Arlington, TX, USA</i>, ²NAS Division, <i>NASA Ames Research Center, CA, USA</i></p>
	<p align="center">An on demand path marking and capacity reservation method using Split Agent C. X. Mavromoustakis and H. D. Karatza <i>Department of Informatics, Aristotle University of Thessaloniki, Thessaloniki, Greece</i></p>