



PDCAT'08

## 3rd (2008) New Zealand Workshop in High Performance and Grid Computing

<http://www.cs.otago.ac.nz/pdcat08/nzhpc08/index.html>

December 4, 2008, Dunedin

### Registration

There are two options available for registration:

- 1) Attending the workshop only. It is fee free option, thanks to our sponsors. Please register via email [iparalle@aut.ac.nz](mailto:iparalle@aut.ac.nz). Registration deadline is November 27, 2008.
- 2) To attend the Workshop and PDCAT'08 register through [PDCAT 2008 main website](#) (conference fee is payable).

**Where:** Castle D(40), University of Otago

### Program

<u>Registration</u>	8:00-9:00
<u>Morning tea</u>	10:00-10:30
<u>Session 1 (invited speakers)</u> (Session 6 of PDCAT)	10:30 -12:00
XtreemOS: Beyond Grid Middleware (30 min) <i>John Mehnert-Spahn</i> (Heinrich Heine Universität, <i>Germany</i> )	
Grid tools that scientists can use (and want to) (30 min) <i>Mark Gahegan</i> (University of Auckland, NZ)	
View-Oriented Parallel Programming (30 min) <i>Zhiyi Huang</i> (University of Otago, NZ)	
<u>Lunch</u>	12:00-1:30

Session 2 (Session 7 of PDCAT)

1:30-3:00

State of BeSTGRID: Evolving a New Zealand Research Grid infrastructure (30 min)

*Nick Jones (University of Auckland, NZ)*

The GreIC Portal: A Ubiquitous and Seamless Way to Manage Grid Databases (20 min)

*Sandro Fiore, Alessandro Negro, Salvatore Vadacca, Emanuele Verdesca, Alessio Leone, and Giovanni Aloisio (University of Salento, Euro Mediterranean Centre for Climate Change, Italy)*

Application-Specific Disk I/O Optimisation for a Search Engine (20 min)

*Xiangfei Jia, Andrew Trotman, Richard O'Keefe, and Zhiyi Huang (University of Otago, NZ)*

Stream Processing of Integral Images for Real-Time Object Detection (20 min)

*Chris Messom and Andre Barczak (Massey University, NZ)*

Afternoon tea

3:00-3:30

Session 3 (Session 8 of PDCAT)

3:30-5:00

How to Compute Faster and Cheaper: Reconfigurable HPC (30 min)

*Slava Kitaev (Auckland University of Technology) and Tim Molteno (University of Otago)*

BlueFern and HPC at the University of Canterbury (20 min)

*Tony Dale (University of Canterbury, NZ)*

Introduction to High Performance Computing with BlueFern (40 min)

*Tony Dale (University of Canterbury, NZ)*