Institute for Integrated and Intelligent Systems (IIIS) and School of Information and Communication Technology (ICT)

Is pleased to present the SEMINAR on

"e-Science: Are we there yet?"

Professor David Abramson  Director, Monash eScience and Grid Engineering Lab, Monash University

Time 1.30pm
Date 12th April 2011
Venue N06 -2.05 Nathan campus Griffith University.

Abstract: e-Science involves the application of advanced computational methods to other areas of science and technology. It has attracted a good deal of support over the past 10 years, and numerous groups have developed new techniques and software prototypes. Importantly, e-Science requires advanced in both computer science and the application area, making it an ideal driver for computer science research.

In this talk, I will explore whether any of this work is actually making a difference. I will discuss our own projects work at the Monash e-Science and Grid Engineering (MeSSAGE) Lab, a computer science research laboratory devoted to new software development techniques that support e-Science applications. I will show how high throughput (aka parallel) scientific workflows have not only contributed to the state of the art in computer science, but are being adopted in research labs at Monash and internationally. In particular, I will highlight case studies in the medical imaging, chemistry and cardiac science.

Short Bio: Professor David Abramson has been involved in computer architecture and high performance computing research since 1979. Previous to joining Monash University in 1997, he has held appointments at Griffith University, CSIRO, and RMIT. At CSIRO he was the program leader of the Division of Information Technology High Performance Computing Program, and was also an adjunct Associate Professor at RMIT in Melbourne. He served as a program manager and chief investigator in the Co-operative Research Centre for Intelligent Decisions Systems and the Co-operative Research Centre for Enterprise Distributed Systems.

Abramson is currently an ARC Professorial Fellow; Professor of Computer Science in the Faculty of Information Technology at Monash University, Australia, and science director of the Monash e-Research Centre. He is a fellow of the Association for Computing Machinery (ACM) and the Academy of Science and Technological Engineering (ATSE), and a member of the IEEE.

Abramson has served on committees for many conferences and workshops, and has published over 200 papers and technical documents. He has given seminars and received awards around Australia and internationally and has received over $8 million in research funding.

He also has a keen interest in R&D commercialization and consults for Axceleon Inc, who produce an industry strength version of Nimrod, and Guardsoft, a company focused on commercialising the Guard relative debugger.
Abramson’s current interests are in high performance computer systems design and software engineering tools for programming parallel, distributed supercomputers and stained glass windows.

Campus maps and addresses: http://www.griffith.edu.au/about-griffith/campuses/campus-maps

Light refreshments provided.

**RSVP** to Seminar Coordinator *Natalie Dunstan* for catering purposes. Cost: Free Lecture, Telephone: (07) 3735 3757, Email: n.dunstan@griffith.edu.au