

Details available online at [http://nicta.com.au/director/mediacentre/events\\_calendar/vrlss.cfm](http://nicta.com.au/director/mediacentre/events_calendar/vrlss.cfm)

# National ICT Australia invites you to the Victoria Research Laboratory Big Picture Seminar Series Thursday August 10, 2006

The talk will be followed by light refreshments and an opportunity to meet the speaker.

**REGISTRATION IS ESSENTIAL FOR THIS FREE EVENT**  
RSVP to [vrlss@nicta.com.au](mailto:vrlss@nicta.com.au) by Monday August 7, 2006

Public Parking is available at an hourly rate at the University Square car park. Enter via Bouverie Street. Local street parking is also available.



**When:** 4-5pm, Thursday August 10 2006

**Where:** Theatre 1, Alan Gilbert Building (Building 104), University of Melbourne, Carlton Campus

## Mireille Ducassé, Professor of Computer Science at IRISA/INSA, France Automatic Debugging: Mining for Bugs

### ABSTRACT

Debugging computer programs can be a time consuming, arduous and frustrating process. Recent work in automated debugging analyses execution traces to try to find the location of bugs, using brute force techniques. Numerous execution traces, from both successful and failed executions, are compared. The aim is to identify what could be characteristics of the searched bugs in the failed traces. The presentation will review work in this area, and show that the methods used actually apply data mining techniques. In particular, we will show that many methods search for "association rules".

### BIOGRAPHY

Mireille Ducassé joined the research centre of the French Compagnie Générale d'Electricité in Marcoussis in 1982. She moved to the European Computer-Industry Research Centre (ECRC) in Munich in 1985 where she led research on automated debugging for logic programming. In 1993, she became a professor in computer science at the Institut des Sciences Appliquées (INSA) at Rennes, France, where she teaches. She also works at the research laboratory Institut de Recherche en Informatique et Systèmes Aléatoires (IRISA) of Rennes. Prof. Ducassé has been a member of the steering committee of the Automated Debugging workshop series (AADEBUG) since its creation in 1993. She was the general chair of AADEBUG 1995 and the program chair of AADEBUG 2000. She has been involved in the organization of most of the Logic-based Programming Environment Workshops since 1990.

