



IEEE Computer Society and DEBII invite you to
a series of public presentations on the

Vision of the Future of Software Engineering with Professor Ian Sommerville

Eminent International Professor in Software Engineering

Ian Sommerville is professor of Software Engineering and Computer Science at St Andrews University in Scotland. He has worked for many years with social scientists and was amongst the first computer scientist to explore how information from ethnographic studies of work could be used to inform system specification and design. This has led to his current research in the dependability of socio-technical systems where he is working on modelling responsibilities across organisations, organisational memory and coping with systems failure. Prof Sommerville is the author of the most widely used textbook on software engineering – especially popular in universities in Australia. He published the world's first book in Software Engineering in 1982, which is now in its 8th edition. The text has had three decades of strong impact on research and education around the world in computing science and the innovative discipline of software engineering.

Prof. Sommerville will present in Perth, Sydney and Cairns in February 2007.

1) Social Analysis for Specification and Design of Complex Systems

This is a talk for a computer science audience about how social analysis can be used to inform the specification and design of complex systems.

When: Wednesday 14th February 2007, 12:00-2:00pm

Where: VC Council Chamber,
Curtin University of Technology (Perth)

RSVP: 12th February 2007

2) Software Engineering – Challenges for the 21st Century

This is based on a public lecture that he gave to the UK Institution of Electrical Engineers. Its a general talk intended for engineers and scientists who know what software is but without any specific technical background. Its overall theme addresses issues of measurement in software engineering.

When: Thursday 15th February 2007, 5:00-7:00pm

Where: BankWest Lecture Theatre,
Curtin University of Technology (Perth)

RSVP: 13th February 2007

3) Construction by Configuration: An opportunity for software engineering research

This talk is targeted to computer scientists, it assume that the audience must have some knowledge of current software engineering practice.

When: Monday 19th February 2007, 9:00-10:00am

Where: Lecture Hall, Faculty of IT,
University of Technology Sydney

RSVP: 15th February 2007

4) Design for failure: Software challenges of digital ecosystems

Keynote talk at IEEE Digital Ecosystems and Technologies Conference (IEEE-DEST)

In dynamic computation ecosystems involving many different participants, a top-down approach to system dependability does not work. It is not possible to take a top-down approach to system design and implementation and to validate the resulting system against some specification. Rather, we have to assume that elements of the system will become unavailable at unpredictable times and that some elements may be unreliable. Instead of designing systems to avoid failure, we must re-orient our thinking and design systems so that we can tolerate failure and recover from failures when they occur. In this talk, I will discuss the challenges of designing for failure and will introduce research on responsibility modelling that provides information for failure recovery.

When: Thursday 22nd Feb 2007, 9:00-10:00am

Where: Rydges Tradewinds Resort (Cairns)

Further information on attending IEEE-DEST
is available from:

<http://www.IEEE-DEST.curtin.edu.au>

IEEE Computer Society
Western Australia Chapter
http://www.ewh.ieee.org/r10/w_australia/computer/

Digital Ecosystems and Business Intelligence Institute
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