

PREFACE

This publication complements the main conference proceedings. It contains a paper from one of our Invited Keynote Speakers, together with the fuller contributions from the Young Researcher Track, the Interactive Events and the collected Conference Workshops.

We begin with a paper from Peter Reimann, one of our distinguished Keynote Speakers. Next is a volume edited by Helen Pain, Chair of the Young Researcher Track. The eight papers in this Supplementary Proceedings present work-in-progress by graduate students and other young researchers. Papers submitted were each reviewed by at least two members of the Programme Committee. Authors of accepted papers were asked to submit two-page abstracts for the proceedings and six-page versions for this volume, and mentors were appointed to assist them in this process. The strongest four papers were considered by a panel of experienced researchers for award of the Martial Vivet Best Paper Prize for Young Researchers. This prize will be awarded for the first time at AIED 2003, in memory of Martial Vivet and in recognition of his research in the field, his contribution to the AIED Society and in particular his role in making the AIED-99 conference in Le Mans, France, a huge success. We would like to thank paper reviewers, mentors and prize panel judges (listed in detail in volume II) for their valuable contribution to this section of the programme.

Volume III contains papers from the Interactive Events. These are hands-on events that involve substantial participation of conference participants. They typically, but not necessarily, involve the use of innovative instructional software or hardware scenarios such as PDAs or networked learning environments. The purpose of these events is to enable participants to experience the capabilities of state-of-the-art instructional software in a hands-on manner as well as to spur informed discussion of these new directions. Audience participation is key.

Proposals for Interactive Events were reviewed by a committee chaired by Vincent Aleven. The nine contributions described in this Supplementary Proceedings, were selected for their novelty and interest for presentation in an interactive format. The Interactive Events component is novel in this series of conferences but seems likely to become of increasing importance. It reflects the increasingly reliability and robustness of the work in the Artificial Intelligence in Education community: in these sessions, researchers not only describe their research but also allow delegates to use it. This gives a greater insight into the researcher's achievements and the potential of their systems. More importantly, being able to actually have experience with the software, delegates should be able to participate in deeper discussions with the researchers.

The remainder of this Supplementary Proceedings consists of the papers from the workshops. These are a critical part of the conference. Where the main technical program has work which has reached the level of maturity that will pass the stringent reviewing criteria of the conference, the workshops allow for tightly focussed sessions in areas of greatest current activity, with more scope for active discussions among the world's leading researchers in an area. This is the part of the conference that helps the community to operate effectively, building co-operative and supportive international links as well as helping to inform the directions of current research.

All workshop papers were reviewed by a committee of leading international researchers in the specific area of the workshop. We are grateful to each of the workshop chairs and their committees for their work in managing the review process and in the organisation of their workshop. The full series of workshop volumes is:

- Volume IV Towards Intelligent Learning Management Systems
Rafael A. Calvo, University of Sydney, Australia
Monique Grandbastien, Université Henri Poincaré Nancy, France
- Volume V Learner Modelling for Reflection
Susan Bull, University of Birmingham, UK
Paul Brna, Northumbria University, UK
Vania Dimitrova, University of Leeds, UK
- Volume VI Tutorial Dialogue Systems - with a view toward the classroom
Vincent Aleven, Carnegie Mellon University, USA
Carolyn Peinstein-Rosé, University of Pittsburgh, USA
- Volume VII Innovations in Teaching Programming
Ray Kemp, Massey University, New Zealand
Ben du Boulay, University of Sussex, UK
- Volume VIII Advanced Technologies for Mathematics Education
Elisabeth Delozanne, Université Le Mans, France
Kaye Stacey, University of Melbourne, Australia
- Volume IX Metacognition and Self-regulation in Learning with Metacognitive Tools
Roger Azevedo, University of Maryland, USA
- Volume X Technologies for Electronic Documents for Supporting Learning
Leila Alem, CSIRO-MIS, Australia
Alistair McLean, CSIRO-MIS, Australia

A conference such as this requires a huge amount of work from many people. In particular, we take this opportunity to thank those on the local organising committee as well as the researchers in Australia and New Zealand who supported the conference in a multitude of ways. The core of the organising committee were the Organisational Chair and Workshop Chair, with the lion's share of the local arrangements having rested on the shoulders of

Wei-Ying Ho, University of Sydney

with great support from the remaining members of the local organising committee:

Rafael Calvo, University of Sydney
Aaron Quigley, University of Sydney
Bob Kummerfeld, University of Sydney
Alan Fekete, University of Sydney
Amanda Miller, University of Sydney
Denise Tolhurst, University of New South Wales
Josiah Poon, University of Sydney

We also wish to acknowledge the support and contributions of the many Australasian supporters of the conference from its initial bid: Kate Crawford, Roger Duke, Vance Gledhill, Tony Greening, Barry Harper, Walter Jarvis, Andrew Jennings, Ray Kemp, Nicholas King, Simon Kwan, Kinshuk, John Mack, Tanja Mitrovic, Mary Peat, Peter Reimann, Errol Thompson, Geoffrey Webb. We are also very grateful to the sponsors for their financial support:

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Australian Computer Society
Apple Computer Australia

We hope that this Supplementary Proceedings, both in hardcopy and on the web, will provide a valuable resource for AIED researchers, both those who have travelled to Sydney, Australia, to participate in this, the eleventh Artificial Intelligence in Education Conference, as well as to the others, who are less fortunate and will miss the inspiring presentations and discussions but will, at least, have this record of the conference activities.

Vincent Alevan, Carnegie Mellon University, USA
Interactive Events Chair

Ulrich Hoppe, University of Duisburg-Essen, Germany
Programme Co-Chair

Judy Kay, University of Sydney, Australia
Organising Committee Chair

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President, AIED Society
Conference Chair

Helen Pain, University of Edinburgh, UK
Young Researcher Track Chair

Felisa Verdejo, UNED, Spain
Programme Co-Chair

Kalina Yacef, University of Sydney, Australia
Workshop Chair