# 21st Australian Software Engineering Conference

## ASWEC 2010

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Message from the ASWEC 2010 General Chairs

Welcome to the 21st Australian Software Engineering Conference in Auckland, New Zealand. This year for the first time ASWEC goes outside of Australia. This reflects the regional impact that ASWEC has on Software Engineering research and practice, in particular the close ties between the Australian and New Zealand software engineering communities.

The theme is “Engineering software for economic growth.” We chose this theme to emphasise the fact that software is now an important part of world economies, not just as a product for sale but as an economic multiplier for any business, from the financial and health sectors, to scheduling of emergency services, to the production of beer. The goal of the ASWEC series is to make the production of software systems more efficient. Given the integration of software in society, we have the potential for making a huge impact. We hope that ASWEC 2010 will continue the progress of past years.

Organising a conference such as ASWEC takes effort and support from many areas. We would like to thank members of the Organising Committee and other volunteers who have done the bulk of the work to make ASWEC 2010 happen. We would also like to thank the ASWEC Steering Committee for their guidance and the Australian Computer Society and Engineers Australia, who provide backing for the ASWEC conference series. As with the 2009 conference, we have engaged Eventcorp, a professional conference organiser, to assist in the management and running of the conference. Their involvement provides a level of professionalism that would be difficult to achieve otherwise.

The most significant part of the conference is the technical program, so we thank everyone who has contributed to the program, including keynote speakers, authors and presenters of technical papers, research and industry programme committee members and reviewers of papers, and tutorial and poster presenters.

Finally we would like to thank our sponsors, who have supported the conference financially. In the current economic climate this represents a significant commitment by them, without which this conference could not happen.

We hope that you find the program and the conference an enjoyable and rewarding experience, and that you get a chance to enjoy New Zealand.

Ewan Tempero and Ian Warren
ASWEC 2010 General Chairs

Message from the ASWEC 2010 Research Programme Chairs

Welcome to the Twenty-First Australasian Software Engineering Conference.

According to Wikipedia (the fount of all knowledge) “Twenty-one is a Fibonacci number, a Harshad number, a Motzkin number, a triangular number and an octagonal number.” It is the atomic number of scandium, the name of songs by the Eagles and the Cranberries, and in many jurisdictions, the age at which one can drink, gamble, or buy a gun. After twenty-one years, ASWEC has come of age!

This year, a truly Australasian ASWEC in Auckland continues a tradition of a truly international conference. We received 66 submissions, with authors from Brazil, Canada, China, Finland, Germany, Hong Kong, India, Iran, Ireland, Japan, Malaysia, Norway, Pakistan, Sweden, Switzerland, the United Kingdom, and the United States, as well as Australia and New Zealand. Every submission was rigorously reviewed by the programme committee and external reviewers, writing 204 reviews overall. The programme committee then discussed the papers in detail, accepting the 24 papers contained in these proceedings.

A research conference can only be as good as the papers that are submitted, so we would like to thank all of the authors who submitted research papers. Conferences are also judged on the quality of the reviews they provide to authors. These reviews are the result of the work and discernment of the programme committee and external reviews. We thank them for their time and effort. The hard work, as always, was done by the General Chair, Ewan Tempero, without whom none of this would have been possible.

Finally, a conference can only be as good as the attendees who travel to hear the research presentations, quiz the presenters, recruit graduate students, find new collaborators, renew existing relationships, and are inspired to continue their research. To you, especially, we bid you welcome, and hope you will enjoy the very Australasian ASWEC in Auckland, New Zealand.

James Noble and Colin Fidge
ASWEC 2010 Research Programme Chairs
Message from the ASWEC 2010 Industry Programme Chairs

Welcome to the 21st Australian Software Engineering Conference. We hope you enjoy the industry programme that has been selected for 2010. We have tried to select an interesting programme with wide appeal whilst keeping with the conference theme.

One of the challenges of attracting industry submissions is identifying the benefit to industry participants and presenters. We rely on a willingness to share a variety of experiences with industry and research colleagues alike.

This year we received 17 industry paper submissions of which 13 were accepted. Ideally we would have liked to accept all submissions because it is our opinion that any experience is worthy of sharing, and a willingness to present industry experiences is particularly encouraged and certainly valuable.

Each submission was peer-reviewed by between two and three industry committee members. In selecting the accepted papers, in addition to several criteria, we tried to include those that were both personally interesting to the reviewers and had broad appeal to potential industry participants. We sincerely thank all authors of submitted papers and stress that all papers, whether accepted or not, were worthy candidates for the programme.

Vital to the success of ASWEC as a research and industrial experience forum are the Australian and New Zealand industry papers of which the majority of submissions were comprised. It is encouraging, however, to see a number of submissions for the industry paper track originating from overseas countries including Germany, India, Sweden, the United States, and the United Kingdom. We were also delighted with the five submissions from New Zealand reflecting the Auckland location for the conference this year. We hope the attraction of sharing global industrial experiences continues to grow in future ASWECs.

We would like to thank the Industry Programme Committee members. One of the aims of ASWEC is to share findings and experiences across industry and academia, and it is the time and effort that the industry programme committee members have volunteered as industry representatives that is greatly appreciated and so important to this conference.

We also thank everyone on the Organising Committee, and in particular the General Chairs, for giving their time, effort and opinions on industry programme concerns.

Finally, we hope you enjoy the conference!

John Hosking and Brad Long
ASWEC 2010 Industry Programme Chairs

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Judy Bamberger, Process Solutions, Australia
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